

Philippine Sea Types of volcanism and the Age of the Crust.
Evlanov Y. Pacific Oceanological Institute. Vladivostok. Russia

Manifestations of tholeiitic and alkali volcanism of oceanic type are typical of the Philippine Sea basins. In the West Philippine basin it happened in Eocene- Oligocene in the Shikoku and Parece- Vela Basins in upper Oligocene- Miocene, and in Mariana Trough it happened in Pliocene- Pleistocene.

In submarine rises Benham, Amami, Daito and the Kyushu- Palau Ridge products of volcanism in Eocene- Oligocene belong to island arc tholeiitic and alkali series manifested in Mariana Ridge only in Miocene.

In near-oceanic island arcs original island arc tholeiitic series (Oligocene- Miocene) was later replaced by calc- alkali one, and in the final stage of the island arc system formation in Pleistocene- Holocene volcanism manifestations were of mixed character.

Evolution of volcanism in Philippine region define the Age of the Crust under sedimentary deposits.