

Main features of the geological structure of the Pacific segment of the Earth.

Vassiliev Boris. Pacific Oceanological Institute, Vladivostok, Russia

The geologic structure of the Pacific Ocean floor and Pacific mobil belt is considered on the basis of the system analysis of geological and geophysical data. The author expressed an assumption that the Pacific megabasin originated as a result of a rare cosmic event, most probably in connection with the origin of the Earth-Moon system at the early stage of the Earth's evolution. This caused the isometric form of the megabasin, essentially mafic composition of the Earth's crust, high tectonic and magmatic activity and the presence of the concentric mobil belt which appeared as a result of breaking margins of old platforms and following poly-cyclic geosyncline orogenic development.