

GEODYNAMIC SETTING OF THE TROODOS OPHIOLITES

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Ophiolites of the Troodos massif, lately studied and well known from numerous literature object, are often considered as a key to understanding of the processes of oceanic crust spreading [9]. At the same time geochemical peculiarities (boninite volcanism) do not allow to consider the Troodos as an example of the crust originated in the mid-ocean ridge. Usually this paradox is explained as an appearance of the ophiolite section in the supra-subduction setting and the latter is treated as a non-distinct definition of broad usage. New data on Cyprus geology allow to detail geodynamic genesis of the Troodos ophiolites, that may be a key for decipherment of ophiolites genesis in other regions. For explanation of geodynamic setting of the Troodos ophiolite formation it is necessary to carry out palinspatic reconstructions, using new data on the structure and tectonic interpretation of all Mesozoic complexes, exposing on the Cyprus. In new model it is supposed, that the formation of nappe structure of accretional type of the Mammonia terrane and that of the Troodos spreading basin occurred simultaneously and, probably, above single Benioff zone, dipping northward. It is supposed, that the Troodos ophiolite formation took place in nearly EW spreading centers, above Benioff zone, dipping northward, in the initial period of the island-arc formation.