

АВДЕЙКО и др.

**ADAKITES IN SUBDUCTION ZONES OF THE PACIFIC RING:
REVIEW AND ANALYSIS OF GEODYNAMIC GENESIS CONDITIONS**

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Review and analysis of genesis conditions for adakites and magnesian andesites with adakite properties showed that there are various tectonic and geodynamic settings within subduction zones of the Pacific Ring. These settings provide additional heating sufficient for slab melting in subduction zones.

As a rule, on the initial stage of subduction process a front part of a new slab suffered melting caused by heat from hot asthenosphere. In this case, their association with NEB type can be traced. A large number of adakite location depend on additional heating and slab melting in slab windows regardless geodynamic conditions. Moreover, formation of adakites may probably be caused by subduction of hot spreading centers. Oblique subduction and transform interactions between plates may generate additional heating sufficient for adakite volcanism.

Keywords: adakites, subduction, slab melting, the Pacific Ring, geodynamic conditions.