

Supra-subduction zone (SSZ) ophiolites in the Anyuy zone, northeastern Russia

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Anyuy zone is a collisional orogenic belt between the Kolyma-Omolon block and the Chukotka-Wrangelia block having well-developed accretionary complexes. The Aluchin ophiolite (Lychagin, 1985) and the Gromadnensk-Vurguveem gabbro-norite-plagiogranite complex (Lychagin et al. 1991) are situated in the southernmost part of the Anyuy zone. We have surveyed these complexes in Jul.-Aug., 1998. The former has a remarkable sheeted dike complex, and ultramafic rocks include depleted mantle harzburgite and opx-rich cumulates. The latter is also dominated by opx-rich gabbro-norite with opx-rich troctolite layers and is associated with much plagiogranite and amphibolite. These two complexes may have originated in a SSZ spreading center or immature island arc.