

Cenozoic fossil fishes of the extinct alepisauroid family *Polymerichthyidae* from the Sakhalin Island, Russia

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Five incomplete skeletons of fishes of the extinct monotypic family *Polymerichthyidae* (Aulopiformes: Alepisauroidi) from the Paleogene and Neogene of Sakhalin Island, Russia, are identified as *Polymerichthys* sp., described in detail, and compared with known representatives of the family. The results of this study suggest that polymerichthyids were characterized by a prolonged rostrum, behind which the upper jaw symphysis was placed; by an anal fin without spinules, contrary to what was assumed earlier; and, probably, by sexual dimorphism. Morphological analysis reveals the closest relationships of *Polymerichthyidae* to be with Recent Alepisauridae, but their taxonomic position is still unresolved. The new material is the second occurrence of articulated skeleton of fishes of this family. The new findings from Sakhalin expand the known geographical distribution of Pacific polymerichthyids by about 12° of latitude, and extend the time interval for this family to as early as the late Oligocene.

Key words: Teleostei, Aulopiformes, *Polymerichthys*, morphological analysis, systematics, Tertiary, Russia, Sakhalin.

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