

First eriococcid and pseudococcid scale insects from Sakhalinian amber

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We describe one genus and species and undetermined immature female instar of scale insects from Sakhalinian amber found in 1972 on the Okhotsk Sea's (South Sakhalin) beaches. *Podococcus elzbietae* Kalandyk-Kołodziejczyk & Wegierek gen. et sp. nov. belongs to the family Eriococcidae and it is the first known fossil adult female of this family. Other fossil species of Eriococcidae were described on the basis of immature instars or adult male. *Podococcus elzbietae* is characterized by the presence of 8-segmented antennae, tarsal digitules knobbed significantly longer than claw digitules, claw digitules knobbed, macrotubular ducts scattered on the margins of venter of abdominal segments, enlarged conical setae on entire body margin, anal lobes prominent with 3 enlarged setae and anal ring with 4 pairs of setae. The other specimen was not assigned to the species, but its morphological features indicate that is the first known fossil immature instar of the family Pseudococcidae. The other fossil species of this family were described on the basis of adult male morphology. The immature female instar of the family Pseudococcidae possess 6-segmented antennae with the longest apical setae, legs well developed, tarsal digitules knobbed longer than claw digitules, claw with denticle, anal lobes protruded with long apical setae, anal ring with 3 pairs of setae, tubular ducts on dorsal abdominal margins. Scale insects have not been described from the Sakhalinian amber to date.

Key words: Hemiptera, Coccoomorpha, Eriococcidae, Pseudococcidae, amber, inclusions, taxonomy, systematics, Eocene, Sakhalin.

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