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## Research article

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# Three new and five known species of *Diplopetooides* Gerlach, 1962 (Nematoda, Diplopetooididae) from Sweden, and a revision of the genus

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**Abstract.** Eight species of *Diplopetooides* are described from the Swedish west coast. *Diplopetooides suecicus* sp. nov. has the cuticle with longitudinal striation visible only under SEM; cuticular plate underlying the cephalic cuticle around the amphid present; cephalic sensilla 4–6 µm long; amphid an inverted U-shape; wide space between amphidial branches areolated; spicules 27–31 µm long; gubernaculum with caudal apophysis. *Diplopetooides longicaudatus* sp. nov. is characterized by a cuticle without longitudinal striation; cuticular plate underlying cephalic cuticle around amphid present; cephalic sensilla 13 µm long; amphid an inverted U-shape; narrow space between amphidial branches not ornamented; spicules unequal in size, 27–31 µm long; gubernaculum absent; midventral precloacal cuticular ridge present. *D. grandis* sp. nov. is characterized by a cuticle with longitudinal striation; cuticular plate underlying cephalic cuticle around amphid present; cephalic sensilla 18.5 µm long; amphid an inverted U-shape; wide space between amphidial branches punctate. The following taxonomic changes are proposed: *Diplopetooides aetosus* (Juario, 1974) comb. nov., *Diplopetooides botulus* (Wieser, 1959) comb. nov., *Diplopetooides bulbosus* (Vitiello, 1972) comb. nov., *Diplopetooides lucanicus* (Boucher & Helléouët, 1977) comb. nov., *Diplopetooides pumilus* (Vincx & Gourbault, 1992) comb. nov. and *Diplopetooides striatus* (Gerlach, 1956) comb. nov. *Diplopetooides holovachovi* Fadeeva & Mordukhovich, 2013 is synonymised with *Diplopetooides pumilus* comb. nov. An updated key to the species of *Diplopetooides* is provided.

**Keywords.** Identification key, morphology, SEM, taxonomy.

Holovachov O. & Boström S. 2017. Three new and five known species of *Diplopetooides* Gerlach, 1962 (Nematoda, Diplopetooididae) from Sweden, and a revision of the genus. *European Journal of Taxonomy* 369: 1–35. <https://doi.org/10.5852/ejt.2017.369>