A NEW SPECIES OF LONGIDORUS (NEMATODA: LONGIDORIDAE) ASSOCIATED WITH FOREST SOILS AND NOTES ON L. CONGOENSIS ABOUL-EID, 1970 AND L. INTERMEDIUS KOZLOWSKA & SEINHORST, 1979, NEW RECORDS FOR SPAIN

BY

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Longidorus pini sp. n. is described from Spain. It was found around roots of Pinus sylvestris L., Quercus pyrenaica L., Juncus sp. and pasture soil. It is characterized by its medium size, slightly expanded lip region, symmetrically bilobed amphidial pouches and conical tail. It is close to L. distinctus Lamberti, Choleva & Agostinelli, 1983; L. latocephalus Lamberti, Choleva & Agostinelli, 1983; L. carpetanensis Arias, Andres & Navas, 1986 and L. juvenilis Dalmasso, 1969. It differs from L. distinctus in odontostyle length, lip region and amphid shape, position of guide ring and vulva and c' index; from L. latocephalus in odontostyle and tail lengths, situation of guide ring and c' index; from L. carpetanensis in body and odontostyle lengths, c' index, tail shape and guide ring location and from L. juvenilis in having a longer and more slender body, different amphid shape and guide ring position.

Characteristics of Spanish populations of L. congoensis Aboul-Eid, 1970 and L. intermedius Kozlowska & Seinhorst, 1979, recorded for the first time in Spain, are also given.

Keywords: taxonomy, Longidorus, Spain, forest soil, plant nematodes.

In a survey of the genus Longidorus carried out in uncultivated areas in Spain populations of an undescribed species, as well as L. congoensis Aboul-Eid, 1970 and L. intermedius Kozlowska & Seinhorst, 1979, were found.

The new species is described below under the name of L. pini because its type population was found around Pinus sylvestris L. roots. The morphometric characteristics of L. congoensis and L. intermedius from Spain are also given.

The nematodes were killed, fixed and processed to glycerin by methods described by De Grisse (1969).

DESCRIPTION

Longidorus pini sp. n.
(Fig. 1)

Holotype Q: L = 4.6 mm; a = 103; b = 12.5; c = 75; c' = 2.4; V = 49; odontostyle = 70 μm; odontophore = 38 μm; oral aperture to guiding ring = 26 μm; tail = 59 μm; body diameter at lip region = 9.5 μm; body diam. at guiding ring = 15.5 μm; body diam. at base of oesophagus = 38 μm; body diam. at vulva = 43 μm; body diam. at anus = 25 μm.
Fig. 1. *Longidorus pini* sp. n. A: Anterior part of body; B: Variation in the shape of lip region; C: Variation in the tail shape of female; D: Tails of JIII, JII and JIV, respectively; E, F: Relaxed body habitus of females and juveniles, respectively; G: Reproductive system of female.