

Redescription of *Anguinoides stylosum* Chitwood, 1936 (Nematoda: Leptolaimidae)

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Summary. *Anguinoides stylosum* Chitwood, 1936 is redescribed from type material. New data on the morphology of the species as well as emended diagnosis of the genus *Anguinoides* Chitwood, 1936 are given.

Key words: Leptolaimidae, morphology, redescription.

Anguinoides stylosum Chitwood, 1936 is the type and only species of the genus, described by B.G. Chitwood in 1936 from North Carolina, USA. It has not been found since. The original description is rather incomplete, and just two specimens comprise the only reference material of this species. Some information regarding the stoma structure of *A. stylosum* was given by Hope & Tchesunov (1999), but it was considered essential to provide a detailed redescription of the type specimens, including the designation of a lectotype, in order to clarify the morphology. The specimens are somewhat collapsed and therefore not all morphological characters could be clearly seen. All curved structures were measured along the median line.

DESCRIPTION

Anguinoides Chitwood, 1936

Diagnosis. Leptolaimidae. Camacolaiminae. Medium sized nematodes. No sexual dimorphism. Cuticle annulated with narrow, ridge-like, lateral field. Epidermal glands absent. Somatic setiform sensilla present in both sexes. Four cephalic setiform sensilla. Amphids circular, situated anterior to cephalic sensilla bases. Ocelli absent. Dorsal onchiostyle robust, with bilobed base. Pharynx weakly muscularized, with enlarged glandular posterior region. Secretory-excretory system absent. Spicules paired and symmetrical. Gubernaculum present. Supplements present: midventral precloacal tubular, midventral precloacal setiform and subventral caudal papilliform sensilla. Female reproductive system didelphic, amphidelphic. Ovary branches reflexed antidromously.

Type and only species: *Anguinoides stylosum* Chitwood, 1936.

Anguinoides stylosum Chitwood, 1936 (Fig. 1)

Type material. Lectotype male, USNM Catalogue number 33962; paralectotype female, USNM Catalogue number 39416.

Type locality. Beaufort, North Carolina, USA, beach below low tide mark, summer 1934, coll. B. G. Chitwood.

Measurements. Lectotype male, after Chitwood (1936) : L = 1660 μ m, a = 60, b = 6.6, c = 14.4; Present data: L = 1633 μ m, a = 44.1, b = 6.6, c = 14.7, c' = 3.7, T = 43.7%, spicules = 47 μ m, 6 tubular supplements; Paralectotype female, after Chitwood (1936) : L = 1550 μ m, a = 33, b = 6, c = 16.8, V = 53%; Present data: L = 1458 μ m, a = 36.9, b = 6.5, c = 17.8, c' = 3.0, V = 53.0%.

Adult. Body straight in anterior half, ventrally curved posteriorly. Cuticle annulated, annules 1.7-1.9 μ m wide. Lateral field present, crenate, starting at level of posterior end of pharynx, 222-231 μ m from anterior end and ending on tail. Lateral chord obscure. No crystalloids seen in body cavity. Lateral epidermal glands and body pores absent. Somatic sensilla present, setiform. Pharyngeal region with four pairs of setae. Antermost somatic setae located at level of stoma base, 18.5-19.0 μ m from anterior extremity. Setae on rest of body indiscernible. Pharyngeal region 224-249 μ m long.

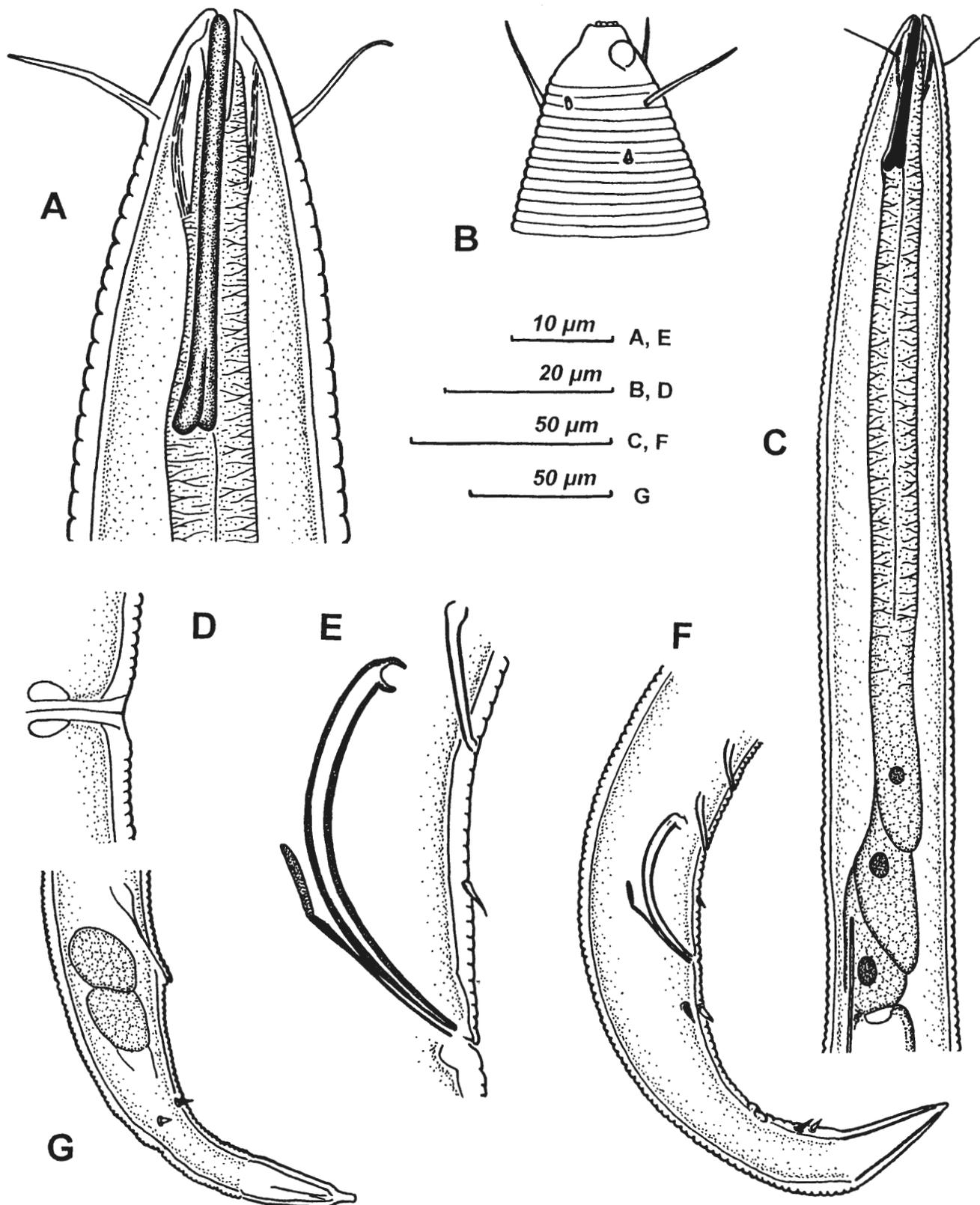


Fig. 1. *Anguinoides stylosum* Chitwood, 1936. Lectotype male (A, C, E, F). Paralectotype female (B, D, G). A: Anterior end, ventro-sublateral median section; B: Anterior end, dorso-sublateral surface view; C: Pharyngeal region; D: Vagina; E: Spicules and gubernaculum; F: Male posterior end; G: Female tail.

Cuticle on labial region very weakly annulated or smooth from anterior extremity to cephalic sensilla bases. Labial region truncate conoid, continuous with body contour, 5.5-8.0 μm wide and 3.5 μm high. Labial sensilla papilliform. Cephalic sensilla setiform, 12.0-15.0 μm long, while their bases located 11.5 μm from anterior extremity. Amphid circular, located 2.0-3.5 μm from anterior extremity. Stoma with strongly sclerotized dorsal onchiostyle-like wall and weak ventral wall. Onchiostyle 38.5-43.0 μm long, with blunt anterior tip and bilobed posterior end. Muscles attached at on one end to pharyngeal tissue surrounding onchiostyle, and at other end to cuticle of labial region. Onchiostyle enveloped for most of its length with muscular pharyngeal tissue. Dorsal gland orifice not seen. Pharynx cylindrical anteriorly, widened posteriorly. Radial tubules absent. Pharynx with weakly muscularized anterior part and glandular posterior. Only three pharyngeal gland nuclei were seen. Cardia cylindrical. Nerve ring and hemizonid not seen. Excretory pore and ventral secretory-excretory gland absent. Caudal glands present.

Male. Gonads obscure. Spicula arcuate, with oval manubrium and gradually narrowing body. Gubernaculum plate like, composed of two elements. Copulatory musculature not seen. Six midventral tubular supplements present. Anteriormost tubule 171 μm anterior from cloacal opening, posteriormost 38 μm anterior to cloacal opening. Single midventral precloacal setiform sensillum located 17 μm anterior to cloacal opening. Two subventral postcloacal (caudal) papilliform sensilla located 53 μm posterior to cloacal opening. Two

subventral pairs of caudal setae present: one pair at anterior sixth of tail length and one pair at posterior third of tail length. Tail arcuate ventrally, gradually narrowing. Spinneret conoid, strongly cuticularised, 28 μm long.

Female. Reproductive system didelphic, amphidelphic. Ovary branches reflexed. Detailed structure of genital tubes could not be observed. Intra uterine egg not seen. Vagina straight, 12 μm or 0.3 vulval body diameters long, encircled by single sphincter muscle. Rectum 29 μm or 1.1 anal body diameters long. One subventral pair of caudal setae present, located at middle of tail length. Tail arcuate ventrally, gradually narrowing. Spinneret conoid, strongly cuticularised, 39 μm long.

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Holovachov O. Переописание *Anguinoides stylosum* Chitwood, 1936 (Nematoda: Leptolaimidae).

Резюме. Дается переписание *Anguinoides stylosum* Chitwood, 1936 основанное на типовом материале, а также новые данные по морфологии и дополненный диагноз рода *Anguinoides* Chitwood, 1936.
