

Neochromadora lineata sp. nov.

Fig. 11 H-L; Fig. 12 N-R; Fig. 16 a-f; Fig. 17 a-f.

HOLOTYPE: Ria Deseado, Embarcadero. 9/11/79. Slide 706 (♂1) on superficial mud of UHM.

ALLOTYPE: Ria Deseado, Embarcadero. 12/11/79. Slide 708 (♀1) on periphyton and superficial mud inside *Spartina densiflora* (10 cm up bottom level).

PARATYPE: Isla Quinta-Isla Larsa. 22/1/80. Slide 707 (♀2). Infralittoral, 5 meters deep.

FILIPJEV'S FORMULAE

$$\delta_1 = \frac{\begin{array}{ccccc} \text{--} & 70 & 120 & M & 680 \\ \text{-----} & & & & \end{array}}{\begin{array}{ccccc} 10 & 30 & 35 & 45 & 30 \end{array}} 800 \mu\text{m}$$

$$\rho_1 = \frac{\begin{array}{ccccc} \text{--} & 85 & 205 & 480 & 915 \\ \text{-----} & & & & \end{array}}{\begin{array}{ccccc} 18 & 50 & 60 & 75 & 40 \end{array}} 1030 \mu\text{m}$$

DE MAN'S RATIOS

	L(mm)	a	b	c	s(μm)-A.D.	ZV
δ_1	0.80	17.8	6.5	6.5	50-1.6	--
δ_2	0.75	22.7	7.1	7.1	50-2.2	--
δ_3	0.80	20.0	5.9	6.7	40-1.4	--
ρ_1	0.65	19.7	5.4	6.5	-----	49.23

DESCRIPTION: On the anterior end six 2 μm long cephalic setae and four 6 μm long in front of the latter have been seen. Lateral band sides with 11-12 μm long somatic setae. The amphid is horse-shoe type with clear outlines and 5 μm wide. The cuticle has no alternate hooklets between rings and has the configuration seen in Fig. 11 H, I and Fig. 17 d, e, f. On the head a small zone with punctuations is differentiated. It is followed by ornamented rings. Two smooth lateral bands from the anterior end and a pair of dorsal and a pair of ventral smooth bands behind the nerve ring level have been seen. The sublateral bands (latero-dorsal and latero-ventral) present two different types of ornamentations: one, near the lateral band, with internally-posterior processes and another contiguous to the latter without processes. In the middle of the body the lateral band is formed by a narrowing of the rings without internal processes, forming an ala or wing.

The buccal cavity has internally 12 cheilorabdians 2 μm long; one pointed dorsal tooth and two subventral teeth of median size.

The oesophageal bulb is globular with only one cytoplasmic interruption.

The ventral excretory opening has not been observed;

but the excretory gland is found behind the cardia and is very big.

The cardia is 10 μm long and 15 μm wide and has a typical shape, Fig. 16 b, Fig. 17 c.

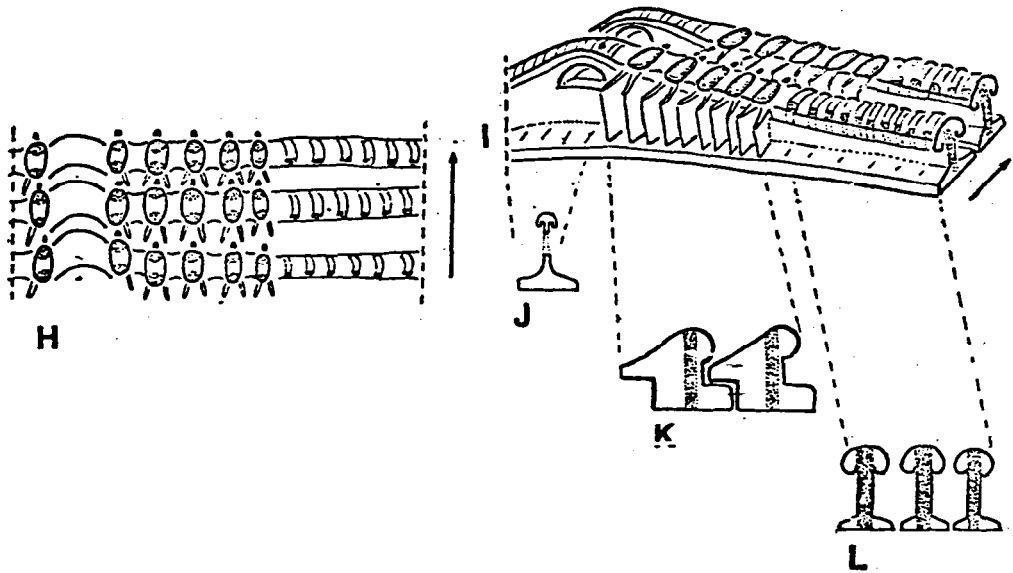
The males have an anterior testis, at the right of the intestine, formed by a seminal zone and spermatid zones. The spermatids are covered by a glandular shell with very small granules. On the ejacular vesicle one pair of very refringent globular glands have been observed. The spicules are slightly arched, not cephalized. The subernaculum is formed by a central piece and a pair of small lateral guiding pieces. Seven to eight pre-cloacal sucker type supplements have been found, the first is 20 μm from the cloacal opening, and 5 μm between them. Two small setae have been found between the first supplement and the cloaca. They are separated 5 μm from each other and 5 μm from the cloacal opening.

The females have a pair of antidromously reflexed ovaries, the anterior in right and the posterior in left position to the intestine. The vagina is short and muscular. One pair of internal glands with the openings near the vulvar region have been observed. The ovary is followed by an oviduct which widens near the uterus in triangular. The uterus has two cavities.

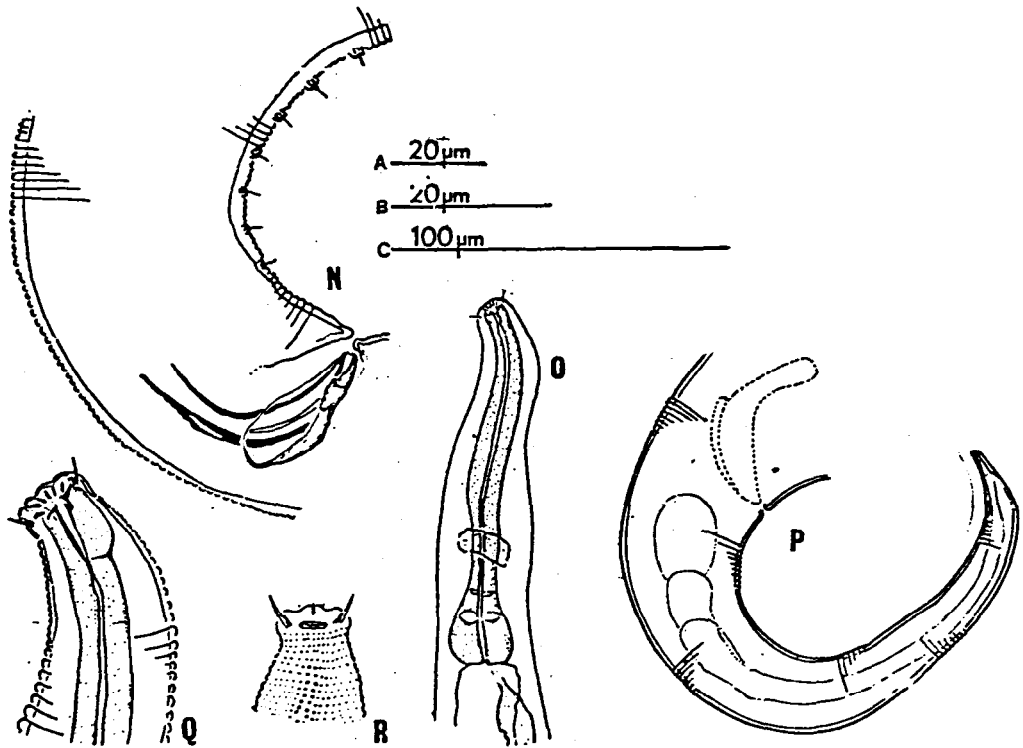
The tail (4-4.8 μm long in males and 5.3 μm in females) is conic and presents an enlarged spinneret with a thickening on the dorsal posterior part; Fig. 17 f. It is 6 μm long and 2 μm wide.

DISCUSSION: *Neochromadora lineata* sp. nov. is related to *N. poecilosoma* De Man 1893, *N. pusillator* Wieser 1959 and *N. appiana* Wieser 1959, but differs from them by the following characters: cephalic and somatic setae length, number of pre-cloacal supplements and amphid size. In Table 1 the magnitudes of these characters are given:

Species	Cephalic setae length	Number pre-cloacal supplements	Amphid size
<i>N. lineata</i>	6	7-8+2	5
<i>N. poecilosoma</i>	18	9	--
<i>N. pusillator</i>	21	13	11
<i>N. appiana</i>	18	9-10	--



H-L: cuticle on *Neochromadora lineata*. H: on the head. I, J, K, L: in the middle of the body;



N-R. *Neochromadora lineata*. N: spicular apparatus and pre-cloacal supplements; O: anterior end; P: male tail; Q: anterior end (♂) on internal lateral view; R: Lateral external view, male ♂. SCALES: A: E, F, G, H, I, J, K, L, M. B: A, B, C, D, N, P, Q, R. C: O.

FIGURE 16

a-f. *Neochromadora lineata*. a: anterior end in upper lateral view; b: oesophageal bulb; c: anterior end in lateral internal view; d: spicular apparatus; e: anterior end in internal lateral view (female); f: spinneret. Abrev.: ANF=amphid; CA=cardia; II=Dorsal tooth.

FIGURE 17

a-f. *Neochromadora lineata*. a: anterior end ♂, lateral view; b: cuticle on nerve ring level; c: oesophageal bulb on ♂; d: cuticle behind oesophageal bulb level; e, f: cuticle in the middle of the body. Abrev.: Dor=Dorsal; Lat=Lateral.

