

Fig. 2. *Chiloplacoides antarcticus* n. gen., n. sp. *A* : Subventral view of female head, showing two guard processes in center of picture; *B* : Subdorsal / en-face view of female head. Two subventral labial probolae to the left and to the top of the picture; *C* : En-face view of male head, with the dorsal probola to the top left of the picture. Note : i) the complete fusion of the bases of the labial probolae with the tangential ridges, ii) the bilateral symmetry of the internal structures (prorhabdions?), iii) the minute denticles on their inner surfaces (arrowhead); *D* : Denticles in the mouth opening of a juvenile specimen; *E* : Excretory pore. (Bar = 2 μ m.).

TYPE LOCALITY AND HABITAT

From soil and mosses in exposed patches on nunataks at Robertskollen, western Dronning Maud Land, Antarctica, *legit* D. Balfour and W. Steele, Dec. 1991-Jan. 1992.

TYPE SPECIMENS

Holotype and several paratypes in the nematode collection of the Department of Zoology, Rand Afrikaans University. Three paratypes (one female, two males)

deposited at the FitzPatrick Institute of African Ornithology, University of Cape Town, and two paratypes (female and male) in the Institute for Zoology, University of Ghent, Belgium.

REMARKS

The dorso-ventrally flattened condition of the male tail is rather similar to that seen in *Pseudacrobeles macrocystis* De Ley & Siddiqi, 1991 (See Fig. 6 C in De Ley *et al.*, 1993). The small lobe-like cuticular processes sur-

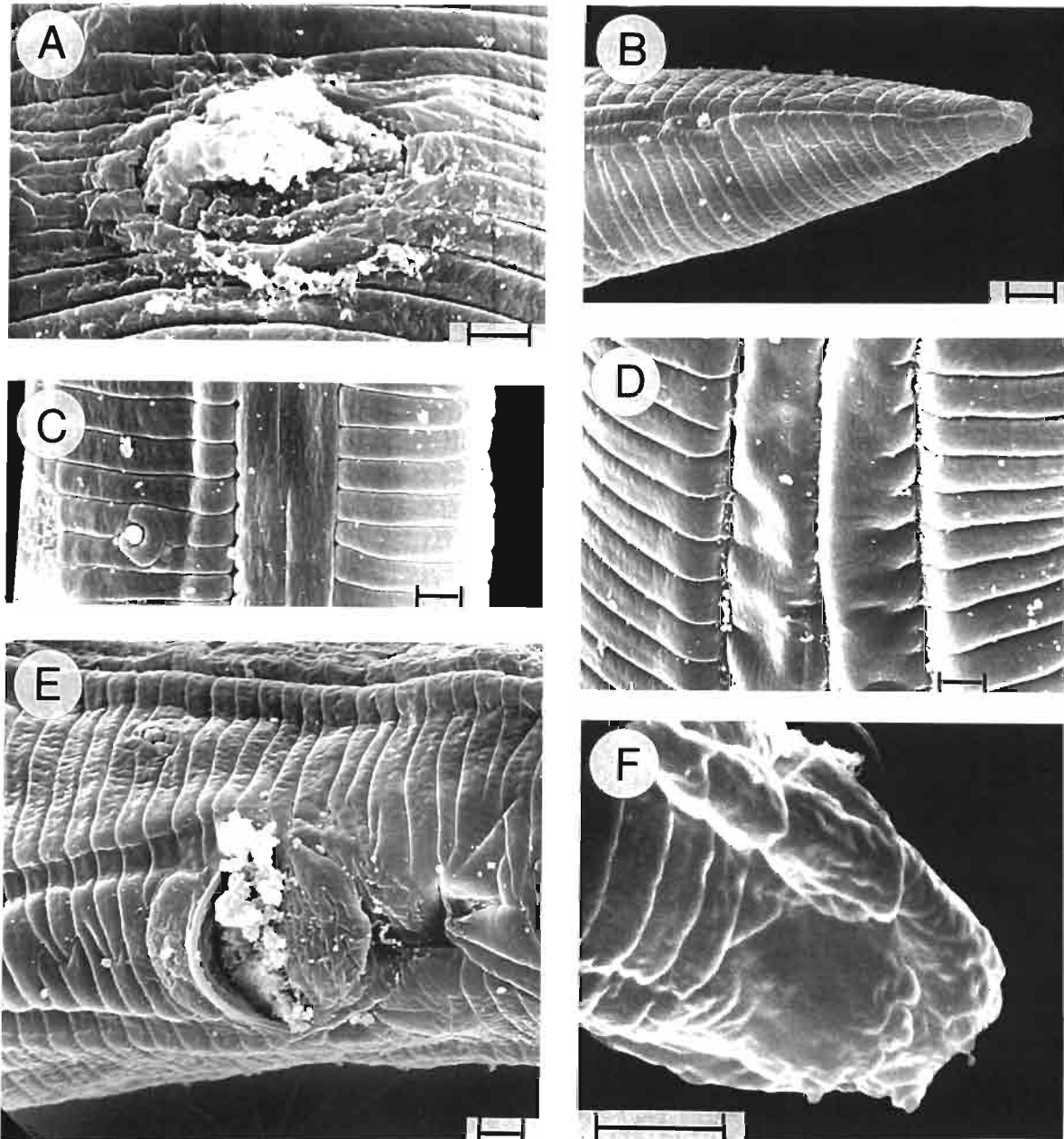


Fig. 3. *Chiloplacoides antarcticus* n. gen., n. sp. *A*: Vulva, showing remnant of copulatory plug, and some of the small lobe-like cuticular structures surrounding the opening; *B*: Lateral view of female tail showing phasmid; *C*: Lateral lines in region of cloaca, with ventrosublateral pore; *D*: Lateral lines in region of vulva; *E*: Cloacal region; *F*: Subventral view of tip of male tail. (Bar = 2 μ m.).

rounding the vulva apparently correspond to the areas around the vulva demarcated by longitudinal lines or ridges described *i.a.* by Boström (1984) for *Chiloplacus minimus* (Thorne, 1925) (see Boström's Fig. 3 E) and Rashid *et al.* (1989) for *Cephalobus cubaensis* Steiner, 1935; *Heterocephalobus lofi* Andrassy, 1968; *Cervidellus nefitasiensis* Boström, 1986, etc. (see Rashid *et al.* Figs 2 F, 3 D and 5 F). The shallow longitudinal

grooves running anterior to the cloacal opening are similar to those illustrated for some *Acrobeles* species by Sauer *et al.* (1979) (see their Figs 10, 11 and 12).

Acknowledgments

Thanks are due to the following personnel of the FitzPatrick Institute of African Ornithology, University of Cape Town: Dave Balfour and Dr. Will Steele for collection of samples and

Dr. Jean Harris and Carol Green for extraction of nematodes. Processing and mounting of specimens was done at the Rand Afrikaans University by Mrs. Errie Heyns.

References

- BOSTRÖM, S. (1984). Description and morphological variability of *Chiloplacus minimus* (Thorne, 1925) Andrassy, 1959 (Nematoda : Cephalobidae). *Nematologica*, 30 : 151-160.
- COOPER, J., SIEGFRIED, W. R., RYAN, P. G., CRAFFORD, J. E. & STOCK, W. D. (1991). Effects of ornithogenic products on ecosystem structure and functioning : a new South African Biological Antarctic Research Subprogramme. *S. Afr. J. Sci.*, 87 : 223-226.
- DE LEY, P., SIDDIQI, M. R. & BOSTRÖM, S. (1993). A revision of the genus *Pseudacrobeles* Steiner, 1938 (Nematoda : Cephalobidae). Part 1. Subgenus *Pseudacrobeles* grad. n. *Fundam. appl. Nematol.*, 16 : 219-238.
- HEYNS, J. (in press). *Plectus antarcticus* de Man, 1904 from western Dronning Maud Land, Antarctica. *Nematologica*.
- RASHID, F., GERAERT, E., COOMANS, A. & SUATMADJI, W. (1989). Cephalobidae from the Krakatau region (Nematoda : Rhabditida). *Nematologica*, 34 (1988) : 125-143.
- RYAN, P. G. & WATKINS, B. P. (1989). Snow petrel breeding biology at an inland site in continental Antarctica. *Colonial Waterbirds*, 12 : 176-184.
- RYAN, P. G., WATKINS, B. P., LEWIS SMITH, R. I., DASTYCH, H., EICKER, A., FOISSNER, W., HEATWOLE, H., MILLER, W. R. & THOMPSON, G. (1989). Biological survey of Robertsollen, western Dronning Maud Land : area description and preliminary species lists. *S. Afr. J. antarctic Res.*, 19 : 10-20.
- SAUER, M. R. & ANNELLS, C. M. (1984). Lip region structure in Acrobelinae (Nematoda : Cephalobidae). *Nematologica*, 30 : 140-150.
- SAUER, M. R., CHAPMAN R. N. & BRZESKI, M. W. (1979). External morphology of some Acrobelinae. *Nematologica*, 25 : 482-486.