

## PARAONIDAE

KEY TO THE BRITISH PARAONIDAE  
(modified from Hartley (1981))

1. Prostomium with a median dorsal antenna\* ..... 2  
 Prostomium without a median antenna ..... 14
2. Some modified neuropodial setae present in posterior setigers ..... 3  
 Some modified notopodial setae present ..... 13
3. Branchiae from the third setiger ..... *Aricidea simonae* (part) ✓  
 Branchiae from the fourth setiger ..... 4
4. Conspicuous neuropodial postsetal lobes present in the prebranchial and anterior  
 branchial region ..... 5  
 Neuropodial postsetal lobes inconspicuous or absent ..... 7
5. Interramal papillae present in the prebranchial and anterior branchial region .... 6  
 Interramal papillae absent. Modified setae distally hooked with a fine arista  
 arising from the convex side of the shaft ..... *Aricidea suecica* (inshore)  
inshore species antenna with filamentous tip near branchiae not elongated mud.
6. Branchiae easily lost. Modified setae with a fringed distal hook and fine arista  
 arising from the convex side of the shaft ..... *Aricidea laubieri*  
 Branchiae not easily lost. Modified setae more or less abruptly tapering to a  
 terminal filament ..... *Aricidea albatrossae* (deep water)
7. Prostomial antenna articulate. Modified neurosetae pseudocompound or acicular  
 hooks with an arista arising from the concave side of the shaft ..... 8  
 Prostomial antenna not articulate ..... 10
8. Modified neurosetae pseudocompound ..... 9  
 Modified neurosetae acicular with distal hook with one to three accessory teeth.  
 Long arista arising from the concave side of setal shaft ..... *Aricidea capensis bansei*
9. Prostomial antenna multiarticulate, reaching the third setiger ..... *Aricidea wassi* ✓  
 Prostomial antenna with a single articulation, not reaching the second setiger .....  
 ..... *Aricidea minuta* ✓ Fig 2.  
(sandy)
10. Modified neurosetae acicular and not aristate ..... 11  
 Modified neurosetae aristate or taper to a fine terminal filament ..... 12
11. Modified neurosetae acicular and distally hooked with a spioniform hood .....  
 ..... *Aricidea cerrutii* ✓  
 Modified neurosetae acicular and lacking hood ..... *Aricidea simonae*

- with fine dips
12. A few pairs of posterior branchiae elongated. Modified setae distally hooked with an indistinct hood and fine terminal arista <sup>sometimes missing</sup> ..... *Aricidea catherinae* X  
 Posterior branchiae bulbous with a cirriform tip. Modified neurosetae more or less abruptly tapering to a terminal filament ..... *Aricidea roberti* X
13. Modified <sup>Notopodial</sup> setae acicular with subterminal arista <sup>branchiae from setiger 5</sup> ..... *Cirrophorus branchiatus* 7  
 Modified <sup>branchiae from setiger 4</sup> setae lyriform ..... *Cirrophorus furcatus*
14. Modified setae present in posterior neuropodia or notopodia or both ..... 16  
 Modified setae lacking ..... *Paraonides* ..... 15
15. Branchiae lacking ..... *P. myriamae*  
 Small number of branchiae from setiger 5 ..... *Paraonides* sp. nov.
16. Notopodial and neuropodial modified setae present ..... *Paradoneis eliasoni* <sup>branchiae from setiger 4</sup>  
 Modified setae notopodial only ..... 17  
 Modified setae in posterior neuropodia only ..... 18
17. Modified setae lyriform ..... *Paradoneis lyra* <sup>branchiae from set. 4</sup>  
 Modified setae of two kinds, lyriform in some anterior segments and acicular with a sub-terminal arista in posterior setigers ..... *Paradoneis armata*
18. Modified setae simple sigmoid hooks ..... *Levinsenia gracilis* Fig. 2.  
 Modified setae sigmoid hooks with short subterminal extension on the concave side ..... *Paraonis fulgens* Fig. 2.  
branchiae from set. 4

\* N.B. Antenna may not be developed in recently settled juveniles (see Gibbs, 1969).

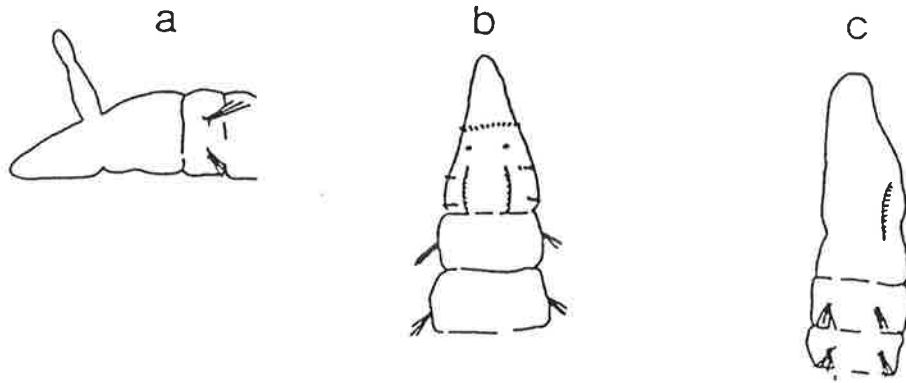
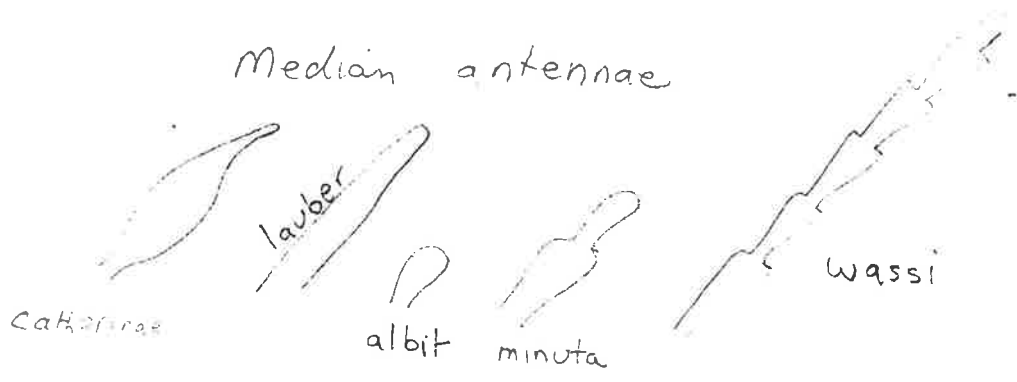
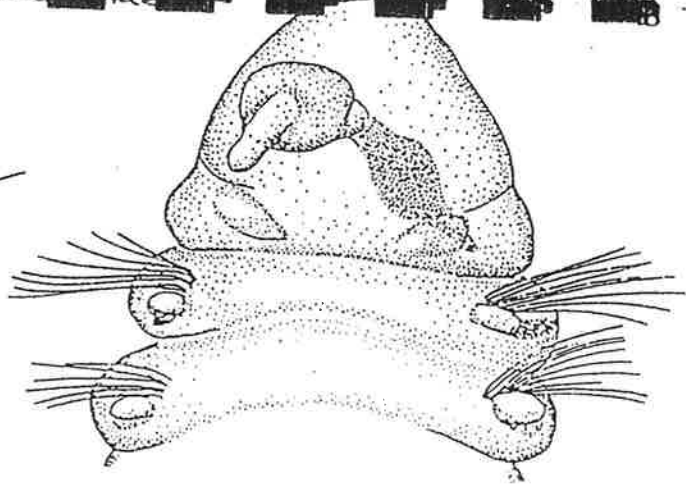
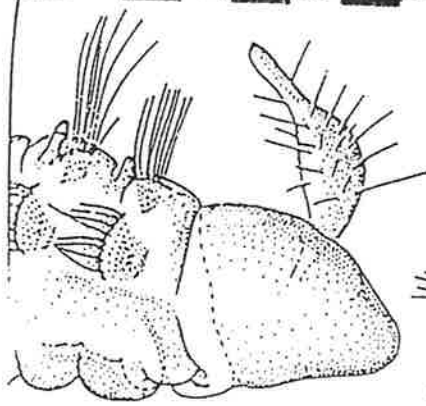


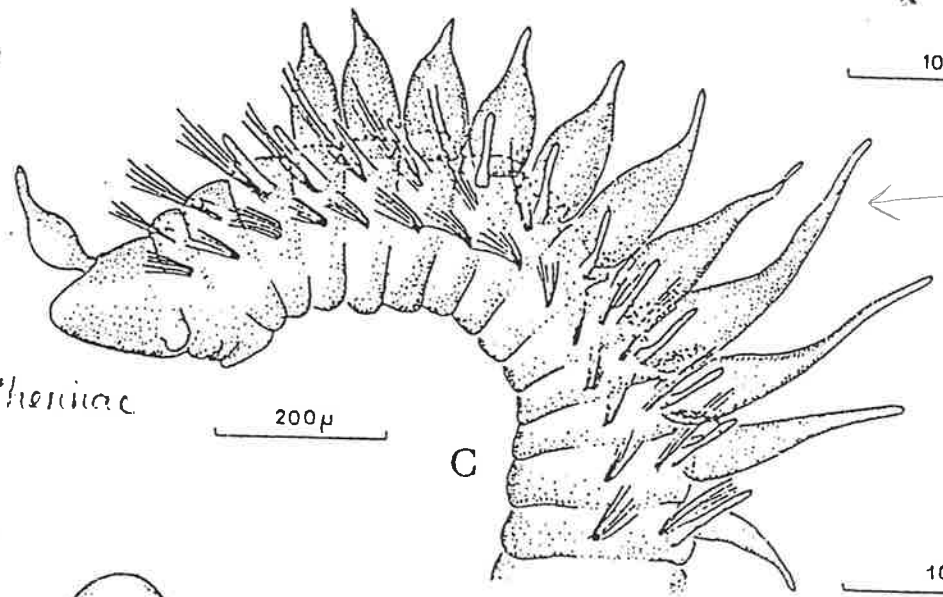
Fig. 2. a - lateral view of the anterior of Aricidea minuta;  
b - dorsal view of the anterior of Paraonis fulgens, showing the  
nuchal organs and prostomial ciliary bands; c - lateral view of  
the anterior of Levinsenia gracilis, showing a nuchal organ.







100  $\mu$

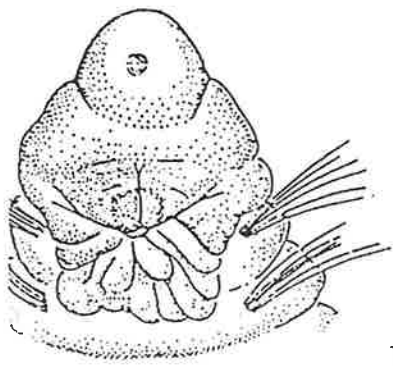


*A. catharinae*

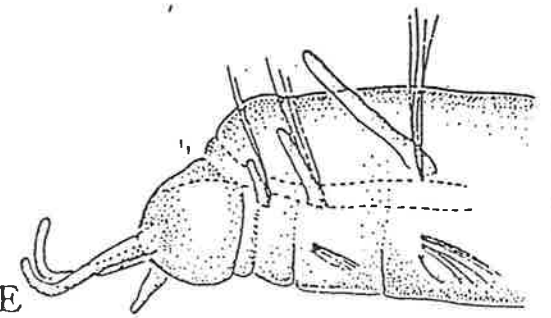
200  $\mu$

C

100  $\mu$



D

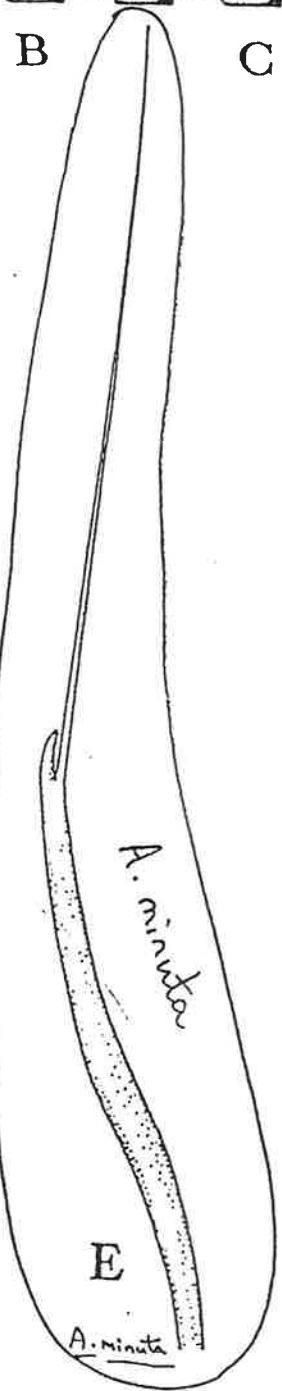
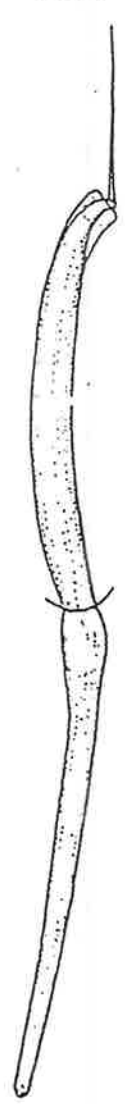


E



20  $\mu$

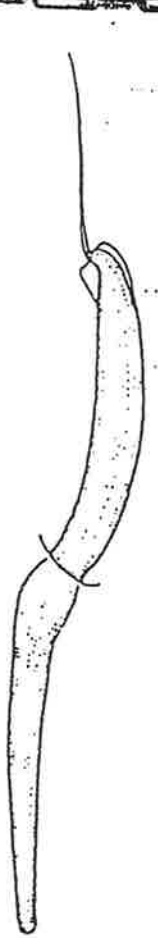
A B C D



*A. minuta*

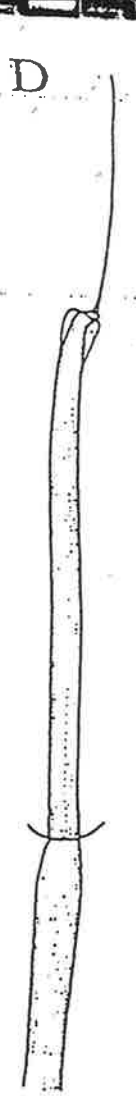
E

*A. minuta*



20  $\mu$

E



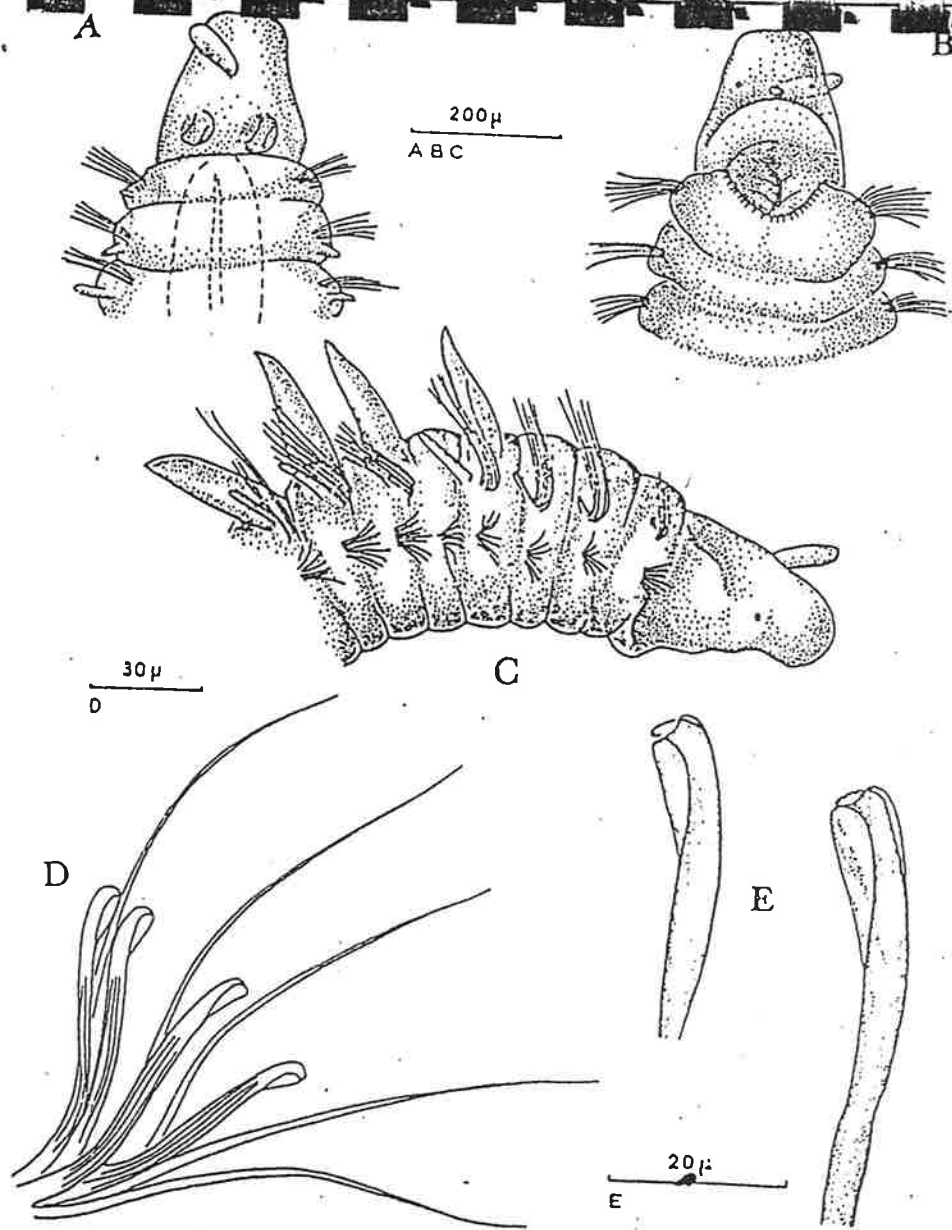


FIG. 1. — *Aricidea cerrutii* Laubier : A, partie antérieure en vue dorsale ; B, partie antérieure en vue ventrale ; C, partie antérieure de profil ; D, neurocrotchets ; E, deux soies modifiées en

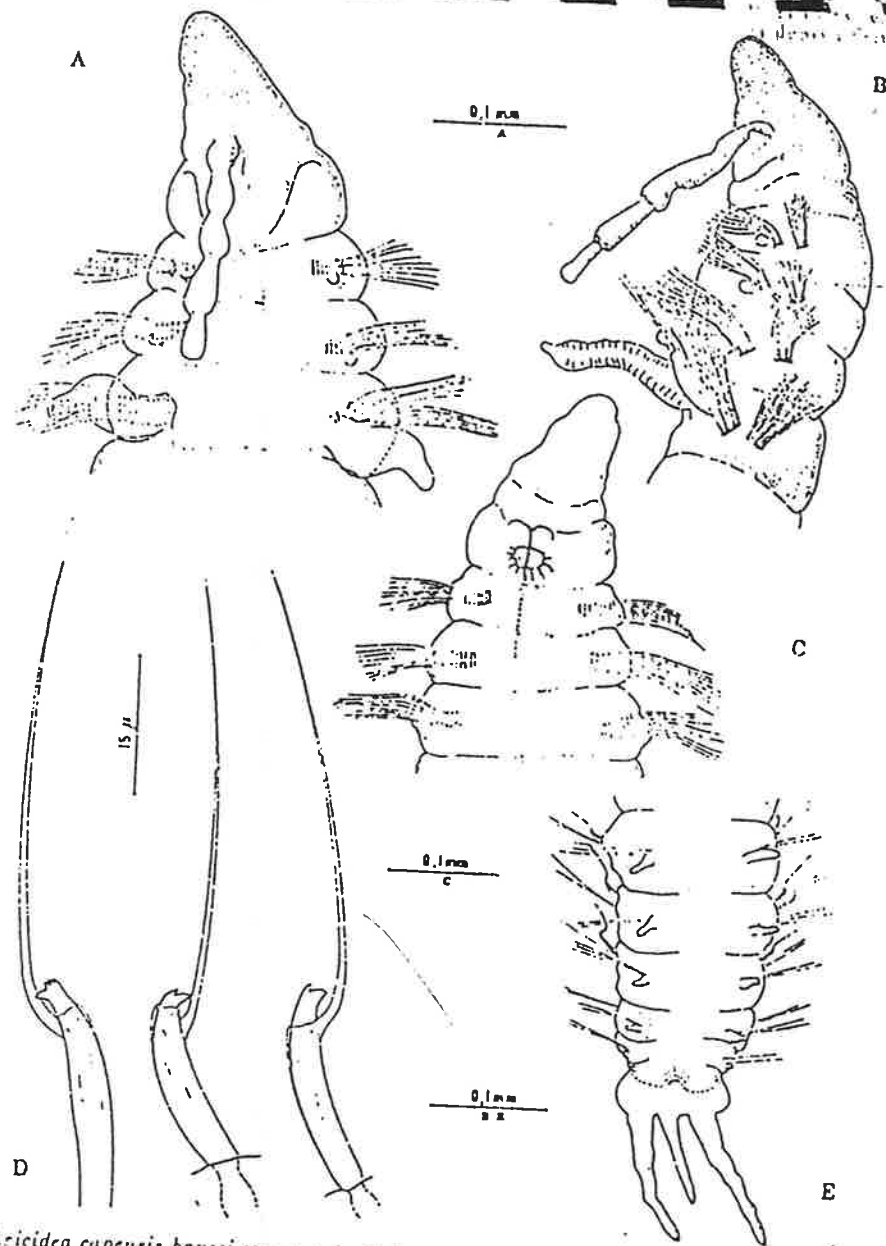


FIG. 5. — *Aricidea cupensis bansei* sp. n. : A, région antérieure en vue dorsale ; B, la même en vue latérale ; C, la même en vue ventrale ; D, trois soies modifiées à uno, deux et trois dents accessoires ; E, pygidium et derniers segments en vue dorsale.

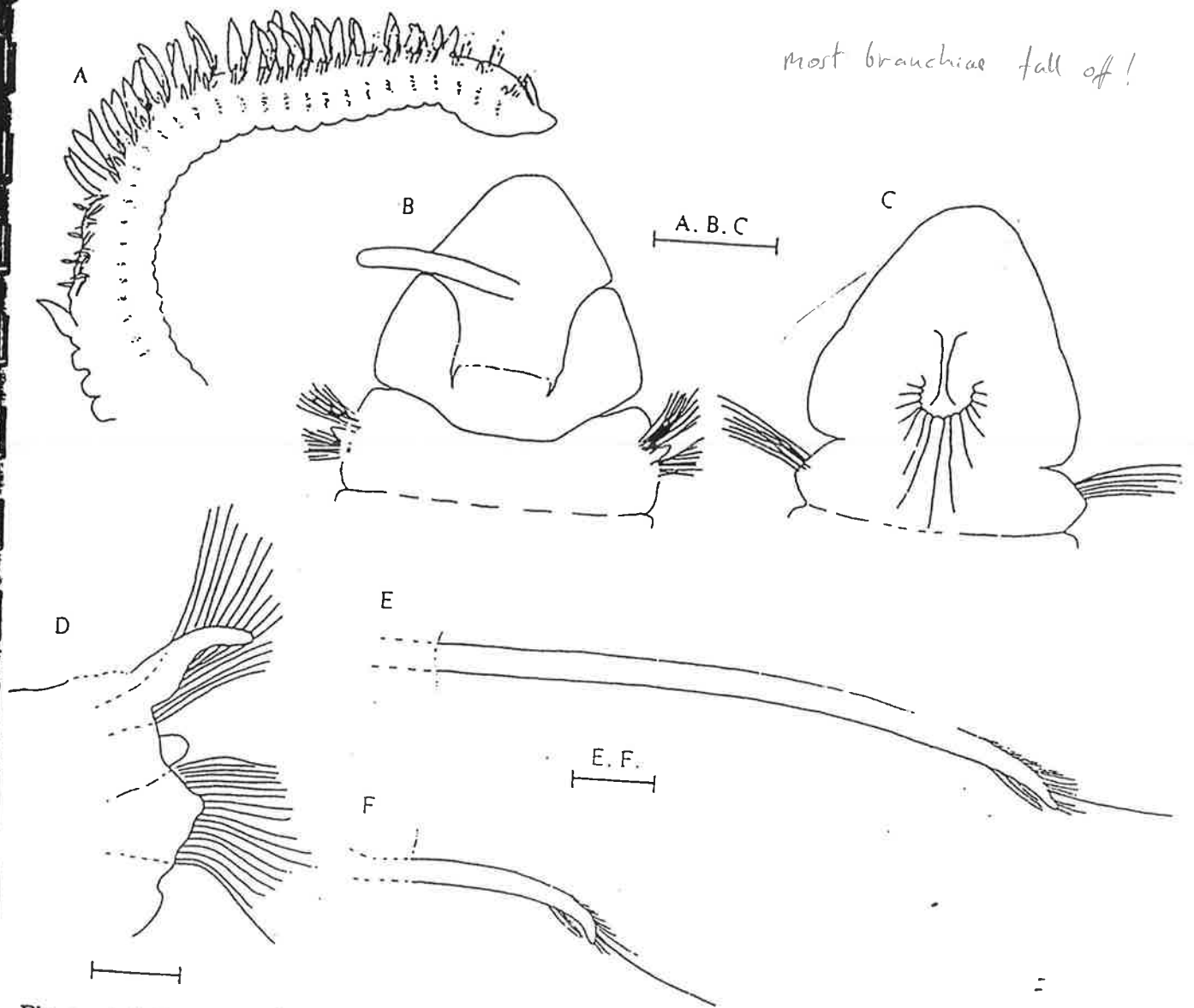


Fig. 2. *Aricidea laubieri* sp. nov. (A, B, C) Lateral, dorsal and ventral views of the anterior region. Scale, 0.5 mm. (D) Posterior view of 7th setiger. Scale, 75  $\mu$ m. (E, F) Modified posterior neurosetae, the most dorsal and the most ventral setae from one fascicle. Scale, 11.25  $\mu$ m.

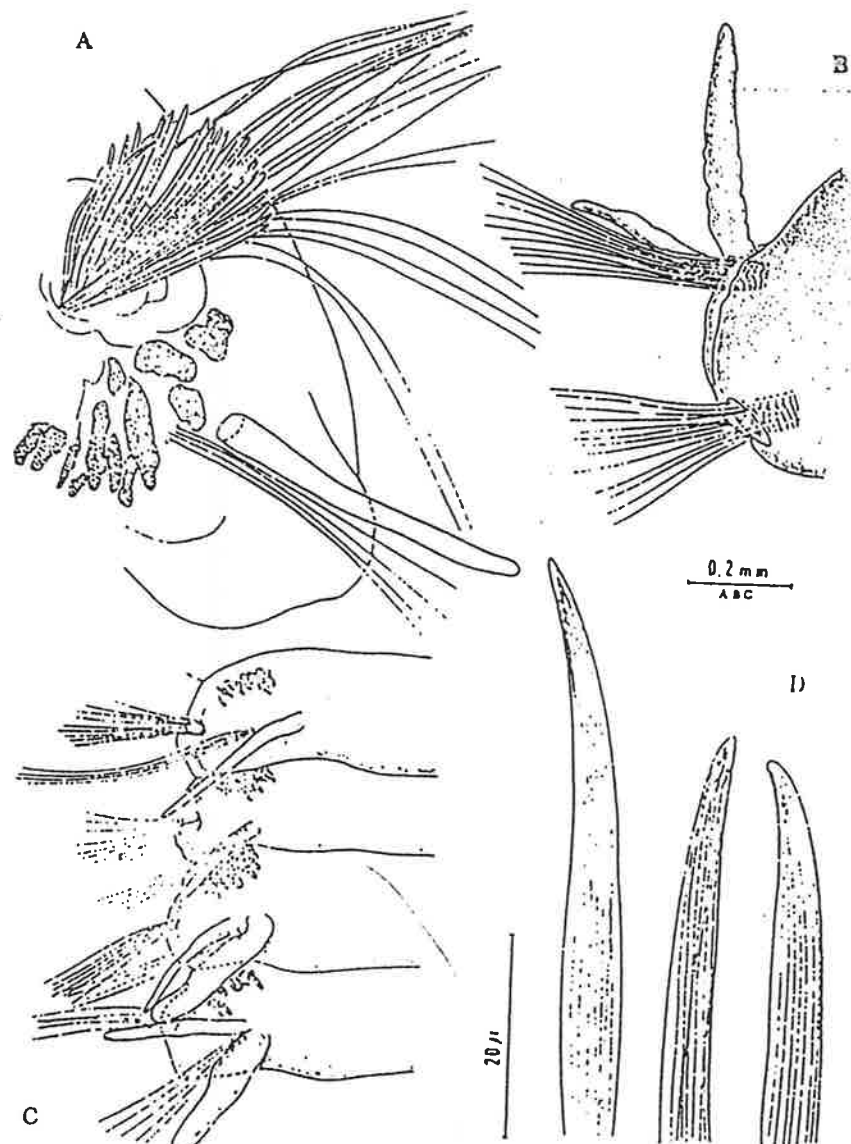
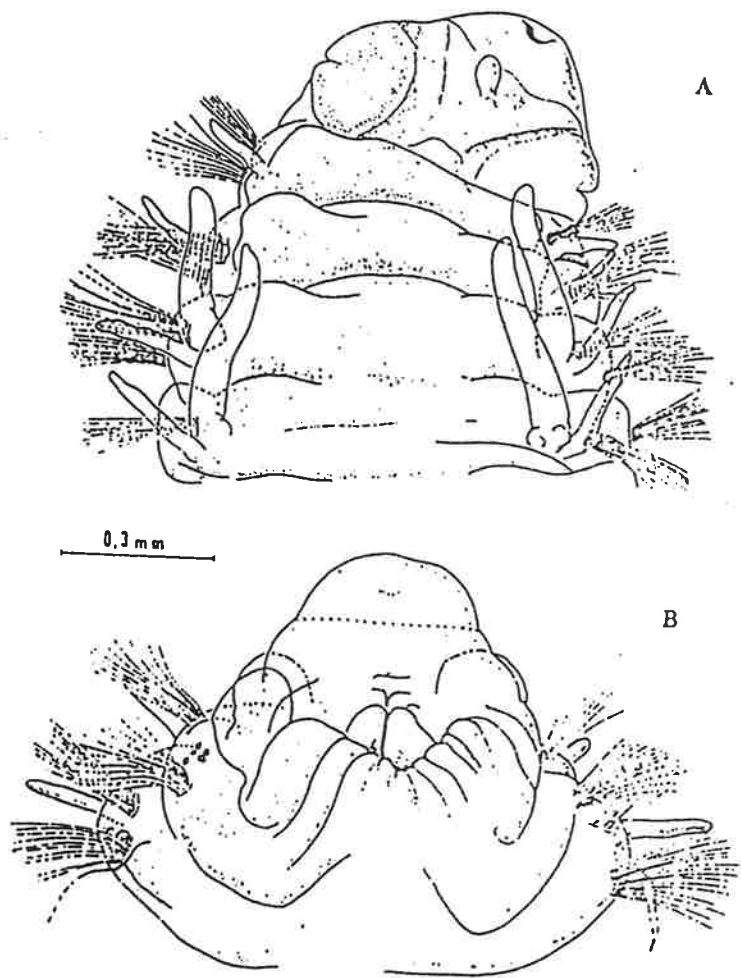
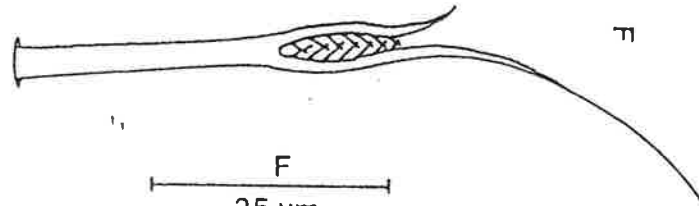
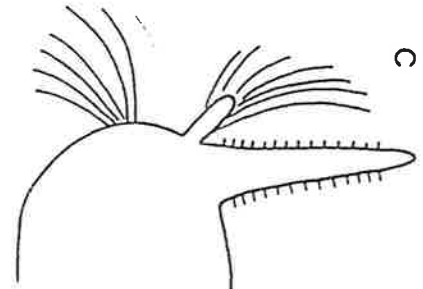
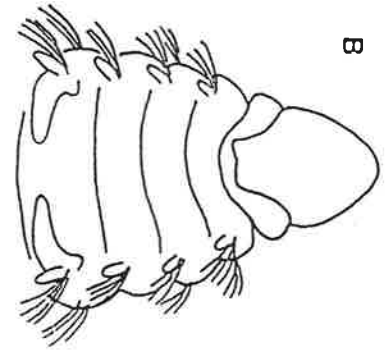
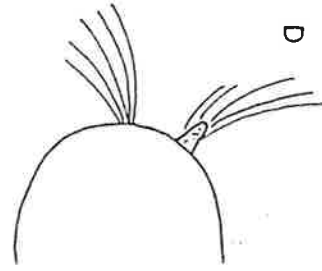
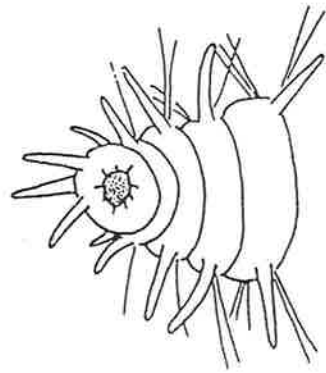
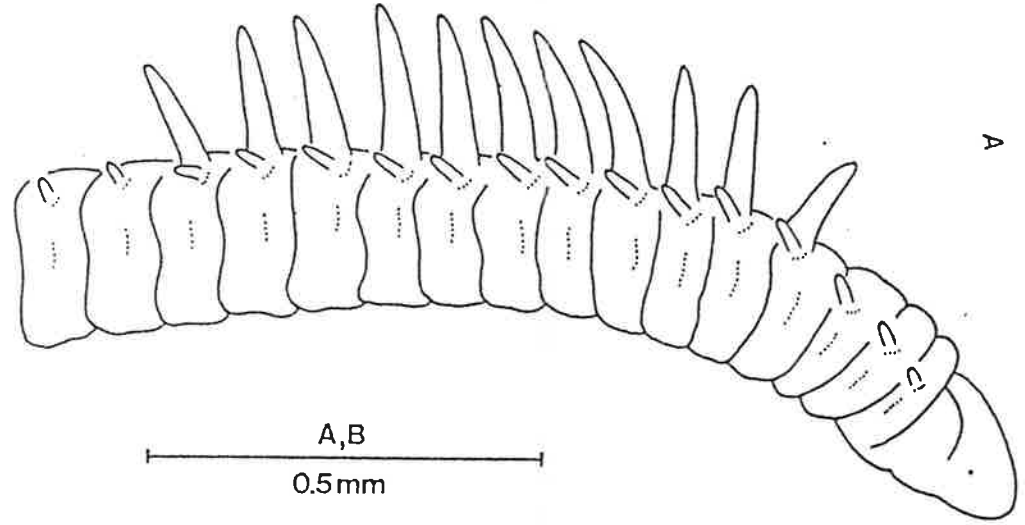


FIG. 10. — *Aricidea simonae* sp. n. : A, 14<sup>e</sup> segment en vue postérieure, notopode vers le bas ; B, 63<sup>e</sup> segment en vue latérale ; C, extrémité de la région branchiale, segments 29 à 32 ; D, soies modifiées ventrales du 63<sup>e</sup> segment.



*Paradoneis lyra*



F  
25  $\mu$ m

C-E  
0.25mm