

**Tanaids (Crustacea: Tanaidacea) Known from the City of San Diego  
Ocean Monitoring Program**

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(revised September 1995)

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Soft Bottom Tanaids Reported From Infaunal Monitoring Programs In The Southern California Bight\*

Order Tanaidacea

Suborder Tanaidomorpha

Superfamily Paratanaoidea

Family Paratanaidae

*Leptochelia dubia* (Krøyer 1842)

Paratanaidae sp A Paquette 1985†

Family Leptognathiidae

*Araphura* sp A SCAMIT 1987

*Araphura* sp B SCAMIT 1987

*Araphura* sp C SCAMIT 1987

*Leptognathia* sp E SCAMIT 1985

*Tanaella* sp A SCAMIT 1987

*Typhlotanais* sp A SCAMIT 1987

Family Anarthruridae

*Scoloura phillipsi* Sieg and Dojiri 1991

*Tanaopsis cadieni* Sieg and Dojiri 1991

Family Pseudotanaidae

Pseudotanaidae ♂ sp 3†

*Pseudotanais* sp†

Superfamily Tanaidoidea

Family Tanaidae

*Sinelobus stanfordi* (Richardson 1901)

*Synaptotanais notabilis* Sieg and Winn 1981

*Synaptotanais* sp A Phillips 1983†

*Zeuxo normani* (Richardson 1905)†

\* Includes all species listed in SCAMIT (1994) plus additional species collected during the Southern California Bight Pilot Project (SCBPP).

† Species not included in following key (i.e., not identified by City of San Diego).

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**Key to the Tanaids of Point Loma**

- 1a. Eyes present .....2
- 1b. Eyes absent .....4
- 2a. Pleon 5-segmented (4 pleonites + pleotelson); dorsal surface of pleonites 1 and 2 with two curved rows of long plumose setae; uropods uniramous (Fig. 1) ..... *Sinelobus stanfordi*
- 2b. Pleon 6-segmented (5 pleonites + pleotelson); pleonites without rows of dorsal setae; uropods uniramous or biramous .....3

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- 3a. Pleonites 4-5 much smaller than pleonites 1-3; uropods uniramous, long and slender, articles approximately twice as long as broad (Fig. 2) ..... *Synaptotanaeis notabilis*\*
- 3b. Pleonites 1-5 approximately equal; uropods biramous (Fig. 3) ..... *Leptochelia dubia*
- 4a. Uropods uniramous, with or without non-articulated pseudoexopods .....5
- 4b. Uropods biramous .....8
- 5a. Uropod peduncle with projection forming non-articulated pseudoexopod (Figs. 5-7).....6
- 5b. Uropods without pseudoexopods, non-flexible and curved inwards toward centerline; body generally calcified and shiny white (Fig. 4)..... *Tanaella* sp A
- 6a. Uropod pseudoexopod truncate, approximately equal in length to proximal segment of ramus (Fig. 5) ..... *Araphura* sp C
- 6b. Uropod pseudoexopod acute, approximately 1/2 length of proximal segment of ramus (Figs. 6 & 7) ..... (*Araphura* sp)† 7
- 7a. Pleotelson elongate, longer than or subequal to width ( $L/W \geq 1$ ); pleonites 1-5 with lateral setules (may be broken off) (Fig. 6) ..... *Araphura* sp B
- 7b. Pleotelson short, distinctly wider than long ( $L/W < 1$ ); pleonites without lateral setules (Fig. 7) ..... *Araphura* sp A
- 8a. Pleotelson with pair of large, ventro-lateral, triangular processes (Fig. 8) ..... *Scoloura phillipsi*
- 8b. Pleotelson not as above .....9
- 9a. Ventral posterior-pointing sternal projection (spine) located between pleopods on pleonite 5; outer ramus of uropod approximately 1/2 length of proximal segment of inner ramus (Fig. 9)..... *Leptognathia* sp E
- 9b. Pleon without ventral projection; outer ramus of uropod approximately equal to proximal segment of inner ramus.....10
- 10a. Antennae 1 of females composed of four articles (six articles in males); fixed finger of cheliped terminates in spiniform process (bifid in female, simple in male); cheliped relatively stout and broad, carpus about as long as broad, propodus and fixed finger together about twice as long as broad (Fig. 10) ..... *Tanaopsis cadieni*
- 10b. Antennae 1 of females composed of 3 articles (six articles in males); fixed finger of cheliped without terminal spiniform process; cheliped relatively long and narrow, carpus about twice as long as broad, propodus and fixed finger together about three times as long as broad (Fig. 11) ..... *Typhlotanaeis* sp A

\* Presently unknown off Point Loma; reported only from northern SCBPP samples.

† Note: *Araphura* sp A and *Araphura* sp B are difficult to tell apart and may or may not be valid species. Record all Pt Loma *Araphura* with acute pseudoexopods as *Araphura* sp and pull for FID.

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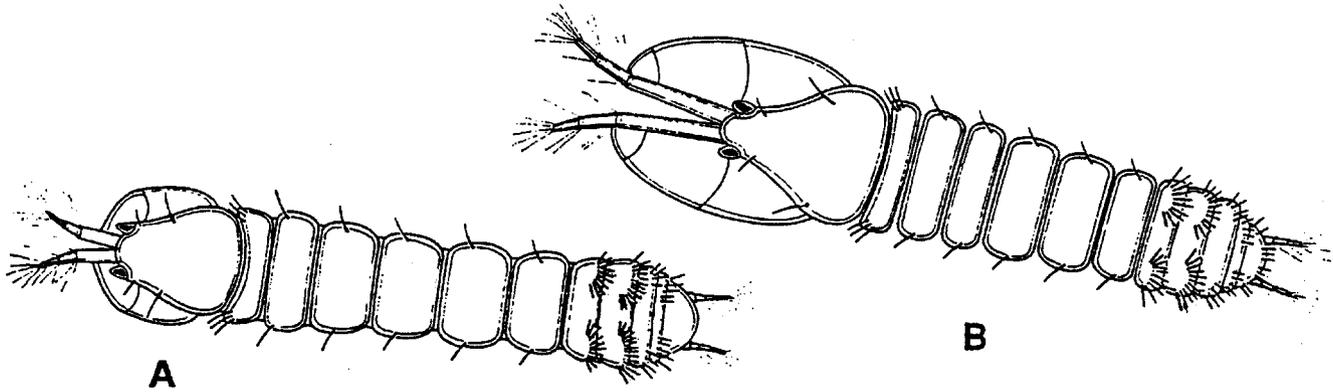


Figure 1. *Sinelobus stanfordi*. (A) dorsal view, female; (B) dorsal view, male. (after Sieg & Winn 1981)

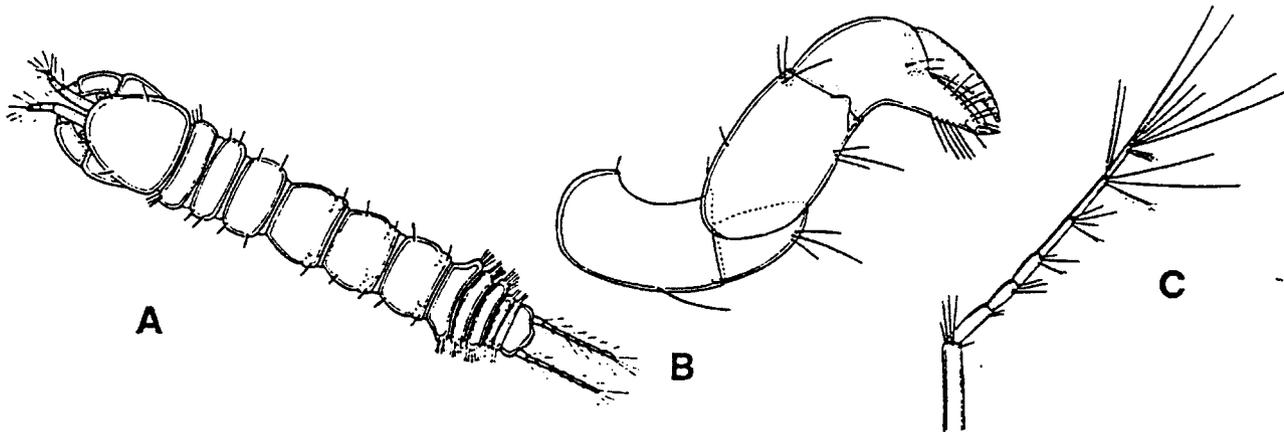


Figure 2. *Synaptotanaeis notabilis*. (A) dorsal view, female; (B) cheliped; (C) uropod. (after Sieg & Winn 1981)

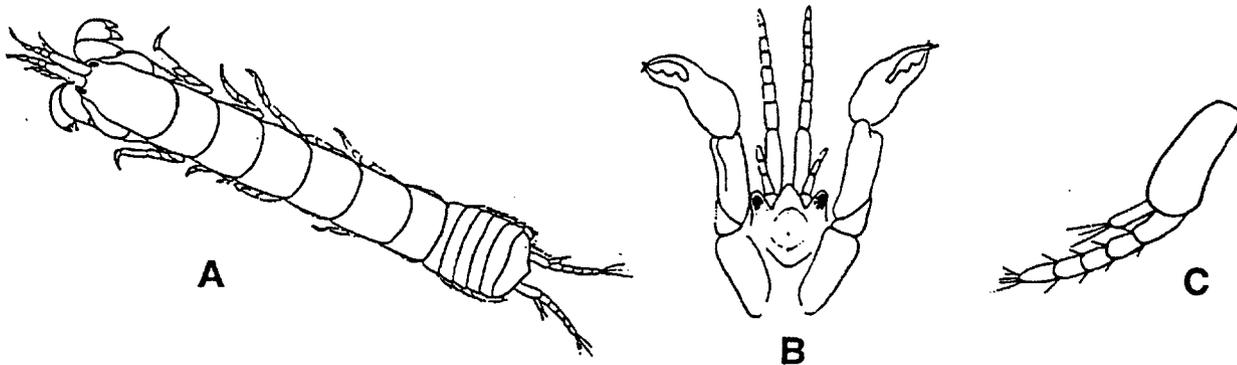


Figure 3. *Leptocheilia dubia*. (A) dorsal view, female; (B) ventral view, male head; (C) uropod. (after Richardson 1905; Rudy & Rudy 1983)

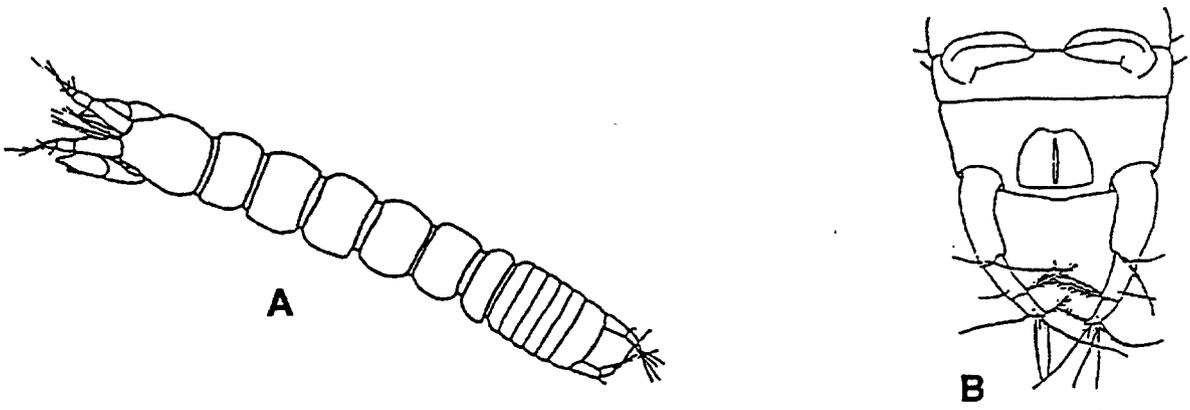


Figure 4. *Tanaella* sp A. (A) dorsal view; (B) pleotelson and uropods, ventral view. (after SCAMIT 1985,1987)

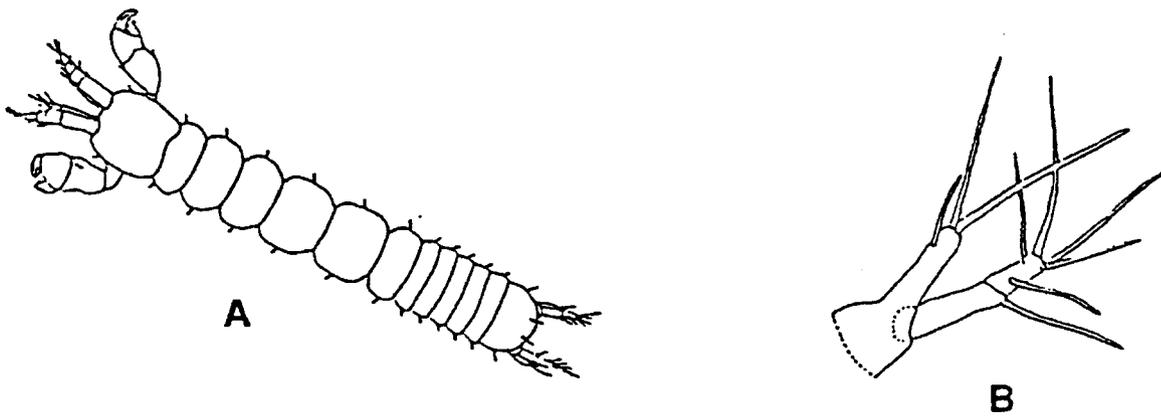


Figure 5. *Araphura* sp C. (A) dorsal view; (B) uropod. (after SCAMIT 1987)

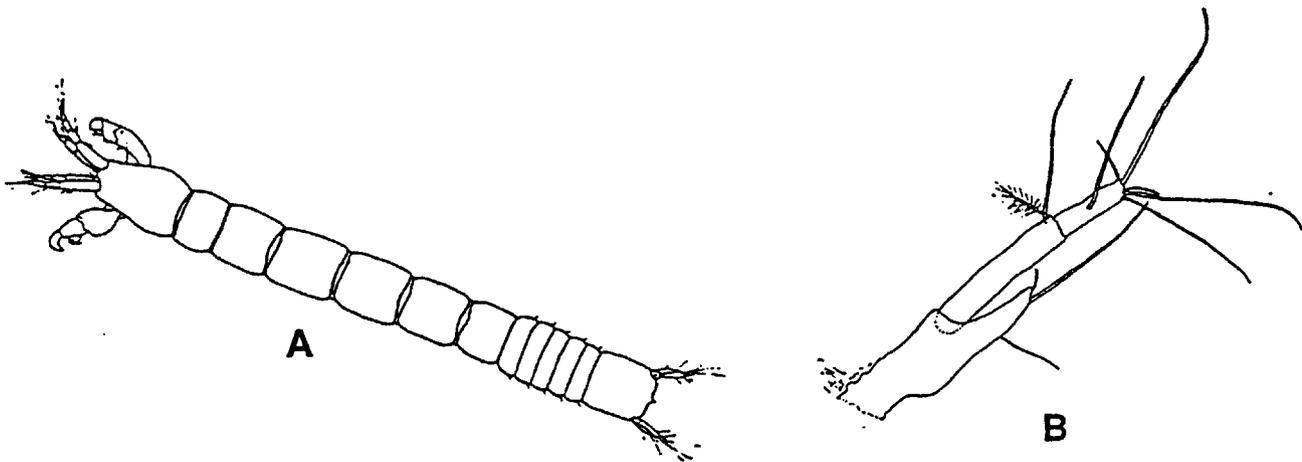


Figure 6. \**Araphura* sp B. (A) dorsal view; (B) uropod. (after SCAMIT 1987)

\**Araphura* sp. B may not be a valid species. RECORD as "*Araphura* sp" + PULL all specimens for FID.

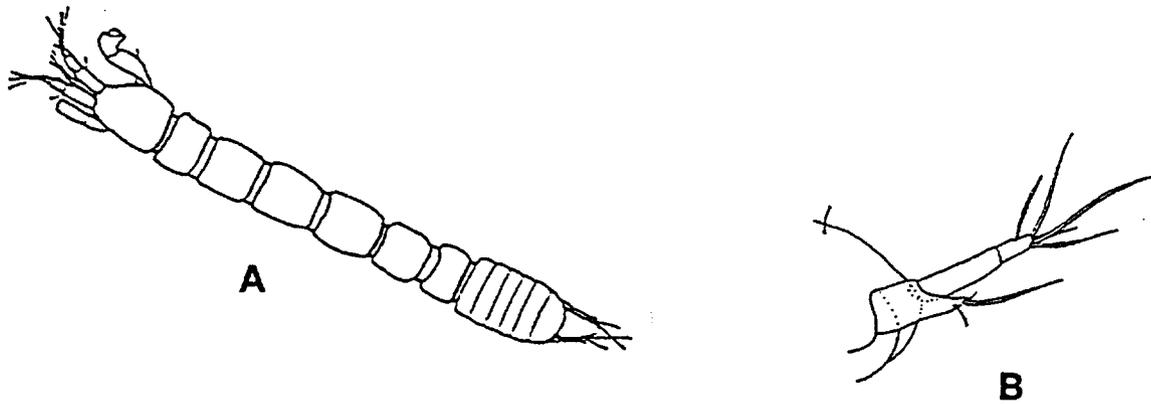


Figure 7. \**Araphura* sp A. (A) dorsal view; (B) uropod. (after SCAMIT 1987)

\* *Araphura* sp A. may not be a valid species. RECORD as "*Araphura* sp." + pull specimens FOR F.I.D.

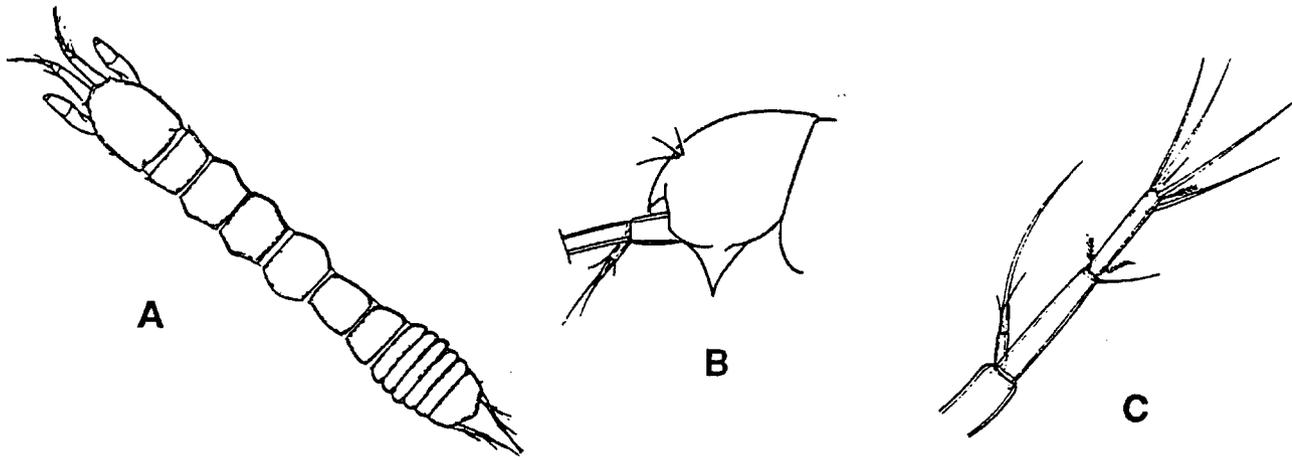


Figure 8. *Scoloura phillipsi*. (A) dorsal view (female); (B) pleotelson, lateral view; (C) uropod. (after Sieg & Dojiri 1991)

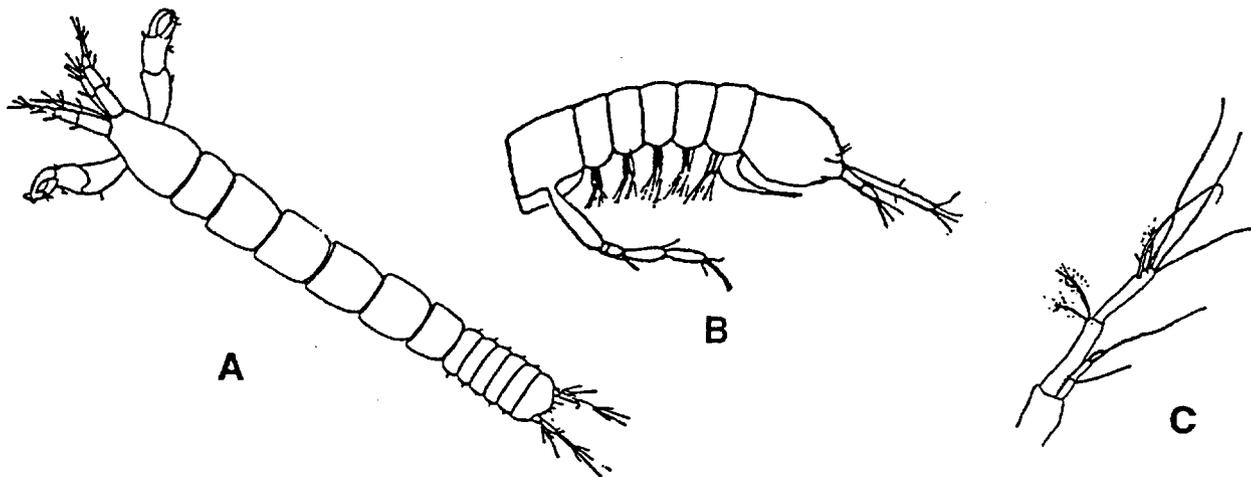


Figure 9. *Leptognathia* sp E. (A) dorsal view; (B) pleon, lateral view; (C) uropod. (after SCAMIT 1985, 1987)

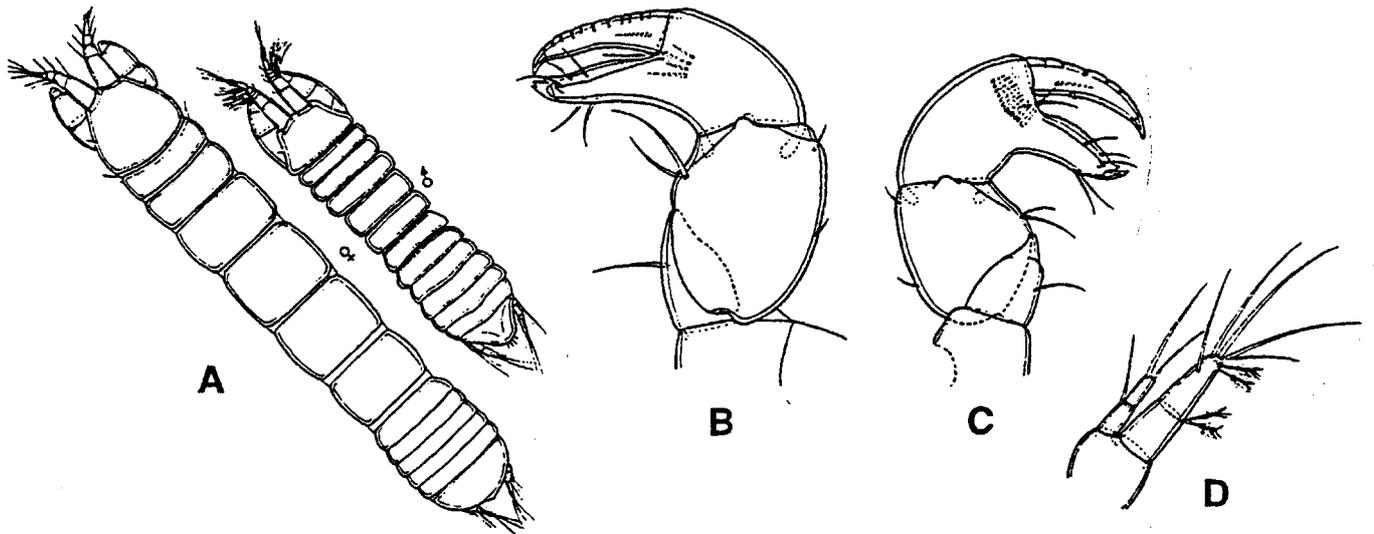


Figure 10. *Tanaopsis cadieni*. (A) dorsal views (female, male); (B) female cheliped; (C) male cheliped; (D) uropod. (after Sieg & Dojiri 1991)

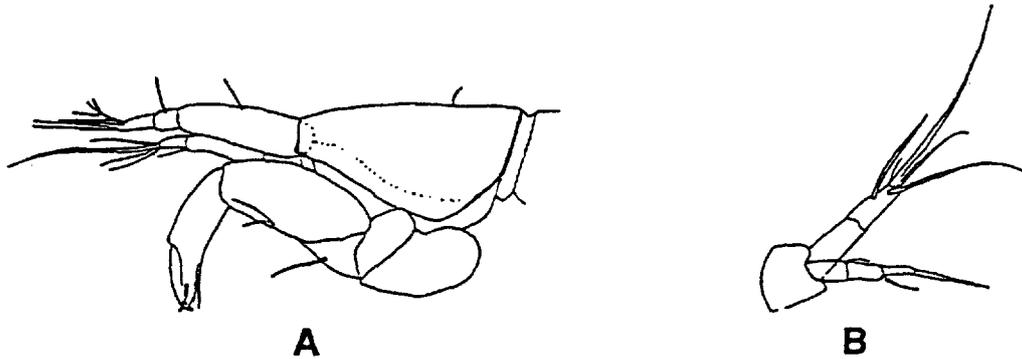


Figure 11. *Typhlotanais* sp A. (A) lateral view, anterior region (female); (B) uropod. (after SCAMIT 1987)

Common Synonymies

Species	Synonymy
<i>Araphura</i> sp A	<i>Leptognathia</i> sp A
<i>Araphura</i> sp B	<i>Leptognathia</i> sp D
<i>Araphura</i> sp C	<i>Leptognathia</i> sp F
<i>Leptochelia dubia</i>	-----
<i>Leptognathia</i> sp E	-----
<i>Scoloura phillipsi</i>	<i>Leptognathia</i> sp C
<i>Synaptotanais notabilis</i>	-----
<i>Tanaella</i> sp B	<i>Leptognathia</i> sp B
<i>Tanaopsis cadieni</i>	<i>Tanaopsis</i> sp A
<i>Typhlotanais</i> sp A	<i>Leptognathia</i> sp H