

Calanidae - Calanoida.

Canthocalanus valid

A. Scott, 1909.

C. pauper <sup>(M)</sup> Giesbrecht

Syn Calanus (pars) Giesbrecht, 1892, p. 91.  
    Canthocalanus A. Scott, 1909, p. 8.

Like Calanus except first basipod terminates in a hook-like projection: second basipod has a naked pyriform spine produced into a tooth which combines with the hook on the 1st segt for prehension - Inner margin of basipod of 5th legs not serrate in either ♂ or ♀. Left 5th exopod in male prehensile: left endopod 3-segd, rudimentary, destitute of plumose setae.

CANTHOCALANUS A. SCOTT, 1909

2

- MAUCKLINE 1988: 719

--, TANAKA, 1956a: 251, 259, 260, 261

--, NISHIDA, 1984: 39

--, BRADFORD 1988: 73-, SPECIES COMPOSITION

CANTHOCALANUS MINOR (CLAUS) S. STR.

-- BRODSKY 1972: 8-107, FIGS.

CANTHOCALANUS MINOR MAJOR SEWELL

--- BRODSKY 1972: 103

Calanidae - Calanoidea.

Canthocalanus pauper (Giesbrecht). ♂. ♀.

Calanus p - Giesbrecht, 1888, p. 331.

Canthocalanus p - A. Scott, 1909, p. 9

— —, Sewell, 1914, p. 193; 1912, p. 355.

— — Wilson 1942, p. 176

— — Sewell 1929, p. 25, Indian O.

Habitat. Mediterranean: Gulf of Suez; Red  
Sea; Arabian Sea; Indian Ocean;  
Pacific:

-- -- , Vervoot, 1946. pp. 36-38, Snellius Expedition

-- -- , *SEWELL, 1947, P.P. 16,*

-- -- , *Decker, 1964. p. 19. South Africa*

-- --, Grice, 1962. p. 177, fig. 9-18, pl. 1

-- --, Brodsky, 1962. p. 102, fig. 5

-- --, Tanaka, 1960. pp. 19-19

-- -- Park, 1968, pp. 527-572.

-- --, Saraswathy, 1967, p. 74

--, Rose, 1955, p. 390

--, Rose, 1956, p. 459

--, Gurjanova, 1972, p. 67

--, Brodsky, 1972, p. 248-9

--, Movchan, 1971, p. 64

--, Krylov, 1967?, p. 248

Canthocalanus pauper

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- , Furuhashi, 1966: 308
- , Furuhashi, 1961: 105
- , Bjornberg, 1963: 104 (table 7), *table 17*
- , TANAKA, 1956a: 259, 260, <sup>262</sup>34N: CALANUS PAUPER
- , HIROTA, 1977: 45; TAB. 1
- , GREENWOOD, 1976: 1, 7-8, 10; FIG. 3a-b; TAB. 1
- , BAYLY, 1965: 339
- , ITOH, 1970: TAB. 1
- Chen & Yin, 197- : 274
- Chen, Zhang, Chen, 19-- : 65
- Chen, 19-- , : 208



- Chen, Zhang, Chen, 19--: 82
- GAJBHIVE ET AL 1984: 77-79, INDIA
- Fleminger, 1985: 275-291, fig. 6C
- Dakin & Colefax, 1940: 85, fig. 100a-f.
- Tanaka, 1965a: 11, fig. 7a-c
- Binet & Dessier, 1968: 12-13, OFR MADAGASCAR

Canthocalanus pauper

23

- , Fruchtl, 1924, p. 32-3
- Bradford, Sillett, 1974, pp. 6, 7, 9.
- , ARCOS 1978: TAB. III, 50.
- , Chiba & Hirakawa 1972: 74, 78; Tab. 2; Fig. 2.
- , Grindley & Wooldridge, 1974, p. 204
- Madhupratap et al 1977: tbl 3.
- Sree Kumaran et al, 1981: passim
- Chen, 1980: table 1
- ARCOS & FLEMINGER 1986: 185
- MADHUPRATAP & HARIDAS, 1986: 107, 108, 110, 113 -  
DISTRIBUTION, INDIAN OCEAN
- De Decker, 1984: 315

- Greenwood, 1982a: 53-55
- Greenwood, 1982b: table 3
- MICHEL ET AL. 1986: 35, ARABIAN GULF
- MICHEL ET AL. 1986: 67, 75 - ARABIAN GULF
- Kimmerer, et al, 1985: table 3
- Sarker, et al., 1986: 178
- MAUCHLINE 1988: 719, FIG. 12F, PORE SIGNATURE

CANTHO-

Calanus pauper Giesbrecht. ♀♂. 4

=Canthocalanus pauper

— — Giesbrecht, 1888, p. 331.

— — Giesbrecht, 1892, p. 91: pl. 6, f. 4: pl. 8, f. 25.

— — Giesbrecht & Schmeil, 1898, p. 16.

— — Thompson & Scott, 1903, p. 241.

— — Brodsky, 1967 p. 191

Habitat. Tropical Pacific: Indian Ocean.

— Thompson, 1900: 275

— A. Scott, 1902: 400

- - Cleve, 1901, p. 5.
- Canthocalanus p - A. Scott, 1909, p. 9.
- Calanus - Pesta, 1911, p. 43: fig. 2, text.
- - Wolfenden, 1905, p. 995: pl. 97, figs. 29-35.
- - Farran, 1929, p. 215.
- - - MOTODA AND ANBAKU? 1955. p. 212, IDZU. IS.
- - , MORI - 1937 - p. 18, JAPAN
- - , Chiba, Tsuruta, + Maeda, 1955. Bikini.
- - Brodsky, 1967. p. 1443
- - Brodsky, 1967: 222
- , Chiba, 1956, p. 42

CANTHO -

Calanus pauper Giesbrecht

card 5

--, Cleve, 1901, p. 5

- (Canthocalanus)-, Brodskii, 1967, p. 191

-- VYSHKUARTSEVA, 1972, p. 152.

--, Bjornberg, 1963: 100 (+ table), table 10

--, (= CANTHOCALANUS PAUPER) TANAKA, 1956 a: 259, 260, 26

--, VYSHKUARTSEVA, 1976: 23, 33, 35, 36, 44, 48, 57; TAB.

1, 3, 4, 6, 8, 9, 11, 13, 14, 16

--, VYSHKUARTSEVA, 1977: 97; FIG. 8, 30

--, Wolfenden, 1906: 995 ~~text~~, pl. 97, fig. 29-35.

- Mori, 1942: 550

- Dakin & Colefax, 1933: 218, 204

Calanus -, LE BORGNE 1986: 142-

CANTHOCALANUS -, CHEN, Q-C + ZHANG 1986: 274

CANTHOCALANUS -, DESSIER + DONGUY 1987: 14, 396-

EASTERN EQUATORIAL PACIFIC

ANTHOCALANUS -, BRADFORD 1988: 74-

ALANUS -, MARUKAWA 1921: 7, JAPAN

ANTHOCALANUS -, REVIS 1988: 349-, KENYA

ANTHOCALANUS -, JIMENEZ-PEREZ + LARA-LARA

1988: 126-, GULF OF CALIFORNIA

Canthocalanus pauper (Giesbrecht)

card 6

Calanus -, Suarez, E. & Gasca 1989c:94-, Costa Rica Dome

-- MICHEL + HERRING 1984: 328-, ARABIAN GULF

CANTHO.-, BOWMAN 1978a: 113-

CANTHO.-, BRODSKY 1972: 8-107, FIGS.

CANTHO.-, OKEMWA + REVIS 1986: 30, TAB. 1, KENYA COAST



Calanidae - Calanoidea.

Canthocalanus pauper (Giesbrecht),

var. plumulosus Wolfenden, ♀.

syn.

— — Wolfenden, 1905, a, p. 994.

— — Sewell, 1914, p. 193; 1912, p. 355.

Sewell 1929, p. 26, an abnormality

Frucht, 1924

"

— —, SEWELL, 1947, p. 16.

Habitat. Gulf of Mannar.

-- Pillai, P. P. 1971, p. 163.

--, ---, Fleminger, 1959-1961, pp. 92-98

--, DeDecker, 1962, p. 104

--, Fruchtl, 1924, p. 32, a syn.

CANTHOCALANUS SP.

- Motoda + Minoda, 1972: 213