

(in)

Tortanidae

Pontellidae - Calanoida.

Tortanus.

Giesbrecht & Schmeil, 1898.

Syn. Tortanus Gies. & Sch., 1898, p. 157.

Corynura Brady, 1883, p. 70, preoccupied.

Corynura Wheeler, 1901, p. 184,

Corynura Giesbrecht, 1892, p. 76, 525.

Tortanus Giesbrecht<sup>1</sup>, 1898

CARD 2

Sewell 1932, p. 398, division into sub-genera

Steuer 1926, Revision

—, Gardner & Szabo, 1982, p. 28, 423

—, STEUER, 1923: 3

—, KOGA 1973: 36, FIG. 10-4, NAUPLIUS

—, KOGA 1984b: 107, FIG. 2-4, NAUPLIUS

—, ZAMORA SANCHEZ 1974: 10

—, BRADFORD 1976: 162-163

— MAUCHLINE 1988: 717, FIG. 10J-PORE SIGNATURE

— HEILSEMAN 1988b: 656

— OHTSUKA & ONBE' 1989: 869-

Tortanus Giesbrecht, 1898

card 3

-- Ohtsuka 1992: 255-256, n. subgen. Acutanus

Tortanus (Tortanus) SEWELL, 1932 GIESBRECHT, IN GIESBRECHT + SCHMELT,  
1898

-- Sewell 1932: 398, established subgenus

-- Othman 1987: 71

-- HULSEMANN 1988 b: 656

- OHTSUKA 1992: 255, 263, 264-265, SELECTED T.

GRACILIS (BRADY, 1883)

Tortanus subgen. Acutanus Ohtsuka, 1992

-- Ohtsuka 1992: 255-256, new subgenus, type T.

angularis Ohtsuka; also transferred T. setacaudatus

and T. compernis.

Tortanus (Atortus) OHTSUKA, 1992

-- Sewell 1932: 398, established subgenus

- Othman 1987: 61, 71-73, establishes tropicus-group  
and murrayi-group

- BOWMAN 1971: REVISED SUBGENUS

- OHTSUKA ET AL. 1987: 53, 58-60, REVISED SUBGENUS

- OHTSUKA 1992: 255, 263-266; SEWELL'S NAME NOT  
AVAILABLE; DIAGNOSIS & DESIGNATION OF T.

MURRAYI AS TYPE.

Tortanus (Eutortanus) Smirnov, 1935

-- Ohtsuka 1992: 255, 263-264, designates correct author; and type species (by monotypy) as T. derjugini

Tortanus (Acutanus) angularis Ohtsuka, 1992

--- Ohtsuka 1992: 255-267, Figs. 1-4, 6, n. sp.

female + male, Twin Cays, Belize; type of new  
subgenus Acutanus

--- SUÁREZ MORALES, E. 1994c: 181-7, CHETUMAL BAY,  
QUINTANA ROO, MEXICO

TORTANUS BARBATUS (BRADY) CARD 2

--, MADHUPRATAP & HARIDAS, 1986: 109<sup>112,</sup> INDIAN OCEAN

— KIMMERER, et al, 1985: table 3 Australia

— TATE & GRIFFITHS, 1983: 112, 124 "

-- OTHMAN 1987: 71

-- HULSEMANN 1988: 656, GIVES SYNONYMY

-- REVIS 1988: 348, KENYA

-- OHTSUKA 1992: 265, IN TORTANUS S. STR.

Tortanidae Pontellidae - Calanoida.

Tortanus barbatus (Brady) ♀.

Corynura b-a Brady, 1883, p. 71: pl. 31, f. 11-12 <sup>♀ only</sup>

— — Giesbrecht, 1889c, p. 26.

— — Giesbrecht, 1892, p. 525

Tortanus b-us Giesbrecht & Schmeil, 1898, p. 158.

— Dakin & Colefax, 1933: 207

Habitat. Philippines.

--, Bjornberg, 1963: 100

(table)

— Bayly, 1980: 7, 10

- — A. Scott, 1909, p. 189, i pl. 55, f. 16-18.
- — Stever, 1926, p. 61: fig. 5, a, a', a" — d, d'.
- Fruchtl, 1923 ♂, 1924, p. 37, 83, fig. 6-8, 41
- — Nicholls 1944, p. 14
- — Sewell 1932, p. 399 includes *T. denticulatus*, see  
also Fruchtl
- — : Sewell, 1933, p. 29. Malaya.
- — : Menon, 1931, p. 510.
- , Rose, 1955, p. 391
- , Rose, 1956, p. 462, = *Corynura denticulata*
- Dakin & Culfax, 1940: 106, fig 160 a-b.
- , Fruchtl, 1924, p. 6163, fig. 41, 42 *T. denticulatu*  
*uis* a sym. ' *Corynura* b. & *denticulata* are syns.
- , GREENWOOD, 1978 b: 2, 18-20  FIG. 9; TAB. 1
- , GOSWAMI & GOSWAMI, 1974: 109, 110, 112; TAB. 1, 2

barbatus, Nicholls (2)

Tortanus sp. (nov.?) Dakin and Colefax, 1940: p. 106,  
fig. 161, a - c. ♂

The plankton of the Australian coastal waters off New  
South Wales.

Publ. Univ. Sydney Dept. Zool. Monogr. 1, pp. 1-215,  
4 pls., 936 figs. (Crust. pp. 71-191).

- Greenwood, 1982a: 58-59

- Greenwood, 1982b: table 3

T. BARBATUS, OKEKWA & REVIS 1986: 31, TAB. 1, KENYA COAST

Tortanus (Atortus) bonjol Othman 1987

--- Othman 1987: 61-67, 69, 71, n. sp. ♀♂, Pulau Tiga,  
Sabah, Malaysia; figs. 1-3

T. (A.)-, OHTSUKA 1992: 265, IN SUBGENUS ATORTUS

Tortanus (Atortus) bowmani Othman 1987

--- Othman 1987: 61, 67-73, figs. 4, 5, n. sp. ♀♂, Pulau  
Tiga, Sabah, Malaysia

T. (A.)-, OHMAN 1992: 265, IN SUBGEN. ATORTUS

Pontellidae - Calanoida

Tortanus brevipes A. Scott, ♀. 0

— — A. Scott, 1909, p. 192: pl. 56, f. 9-13.

— — Steuer, 1929, p. 66: fig. 8, a, a'-b.

-- , Bowman, 1971, p. 521, 527

-- , Rose, 1955, p. 391

-- , Rose, 1956, p. 462

Habitat. Malaysia.

-- , MADHUPRATAP & HARIDAS, 1986: 112

Tortanus (Atortus) brevipes A. Scott, 1909

card 2

--- Othman 1987: 71-72

T. (A.)-, OHTSUKA 1992: 265, IN SUBGEN. ATORTUS

Pontellidae - Calanoida.

Tortanus bumpusii (Wheeler), ♀, ♂.

Corynura Wheeler, 1901, p. 184: text-fig. 21.

Tortanus — M. Rathbun, 1905, p. 106.

A synonym of Tortanus discaudatus  
(Sharpe, 1910, p. 414),

Tortanus capensis sp. nov. GRINDLEY 1978

--, Grindley, 1978, p. 219-228, figs. 1-4 (description)

--, Grindley, Estuarine plankton, p. 124, pl. 3

- (Atortus) -, BOWMAN 1986: 241

- (Atortus) -, OTHMAN 1987: 72

- (A.) -, OHTSUKA ET AL. 1987: 60

- (A.) -, OHTSUKA 1992: 265, IN SUBGEN. Atortus

S. Africa.

Tortanus compernis González & Bowman

-- -- González & Bowman, 1965. pp. 259-260, fig. 11g,  
12b-i, 13a-j

- - , Bowman, 1973. pp. 521

--, Bowman, 1971, p. 521

--, Bjornberg, 1971, p. 348

-- REID 1990g: 192

-- OHTSUKA 1992: 255, TRANSFERRED TO  
ACUTANUS N. SUBGEN.; FIG. 5B, D, G-1, K + FIG. 6C,  
BAÍA FOSFORESCENTE, PUERTO RICO

Pontellidae - Calanoida

*Tortanus denticulatus* (Giesbrecht) ♀.

syn. T. barbatus

*Corynura d-a* Giesbrecht, <sup>1889,</sup> p. 26: 1892, p. 525,

*Tortanus d-us* Giesbrecht & Schmeil, 1898, p. 158.

C - - a Giesbrecht, 1892, p. 525: pl. 31, f. 6, 20:  
[pl. 42, f. 33, 38]

=*T. barbatus*: -Frucht 1924, p. 37, 83, Steuer 1932, p. 399

Habitat. Assab: Red Sea.

-- HULSEMAN 19886: 656

Tortanus denticulatus Shen & Lee , Bowman, 1973, pp.521,  
-- , Fruchtl, 1924, p. 61, a syn. of T. barbatus

Tortanus denticulatus Shen & Lee 1963 - see T. sheni

Pontellidae - Calanoida

Tortanus derjugini Smirnov. ♂ ♀.

— — Smirnov, 1935, p. 45: text-figs. 7-12.

— —, BRODSKY, 1950, p. 431, fig. 305.

- - , Bowman, 1971, p. 521

--, Bowman, 1971, p. 521

--, KOS, 1977: 39, 50

Habitat River Amur.

-- CHEN & ZHANG 1965: 130.

-- OHTSUKA ET AL. 1987: 54

- DERJUGIN, CHEN, Q-C 1986: 526 -

Tortanus derjugini Smirnov, 1935

card 2

-- Ohtsuka 1992: 263-264, type of Eutortanus-subgenus

-- OHTSUKA, UEDA + LIAN, 1995: 147-160, FIGS. 1-7,  
REDESCRIPTION, ARIAKE SEA, JAPAN

Tortanus dextrilobatus Chen & Zhang 1965

- Chen & Zhang, 1965: 128-130, Pl. 53, Figs. 6-11, n.sp.  
♀♂, AMOY, FUKIEN, CHINA; ~~Amoy~~
- SHEN & LEE 1966: 214 - CHINA
- OHTSUKA ET AL. 1987: 54
- CHEN, Q.-C. 1986: 524 -
- OHTSUKA 1992: 264
- OHTSUKA, UEDA & LIAN 1995: 147, 159, TAB. 1

Tortanus (Atortus) digitalis Ohtsuka & Kimoto, 1989

--- Ohtsuka 1992: 265, in subgen. Atortus

Pontellidae - Calanoida.

Tortanus discaudatus (~~Heptanema~~ Thompson & Scott) 1897

Corynura ~~Heptanema~~ a Thompson & Scott, [1897]<sup>1898</sup> p. 80: pl. 6, <sup>figs. 1-11: pl. 7, figs. 1-2</sup>

Tortanus ~~us~~ Giesbrecht & Schmeil, 1898, p. 158

— van Breemen, 1908, p. 162, figs. a-c.

— Sharpe, 1910, p. 414.

Habitat. Puget Sound: Woods Hole: Gulf of St. Lawrence,

- Corynura bumpusii* Wheeler, 1901, p. 185: text fig. 21.  
*Tortanus* b — M. Rathbun, 1905, p. 106.  
— *discaudatus* Wright, 1907, p. 14 Nova Scotia.  
— — Willey, 1920, p. 22 K. <sup>pl. 6, figs. 9-11.</sup> Attachment of  
— — Steyer, 1926, p. 54: fig. 1, a, a' — d, text. <sup>Canadian Arctic</sup>  
— — Rose, 1929, p. 46.  
— — Wilson, 1932, p. 167: fig. 114.  
— — Brodsky, 1950, p. 430, fig. 304.  
— — Johnson, 1934.  
— — Cameron, 1957, p. 177-9. Queen Charlotte Is.  
— — Deevey, 1960, p. 34. Mouth of Delaware Bay.  
— — Anraku & Omori, 1963. pp. 119-120 fig. 5-10  
— — Anraku, 1964(b). pp. 221-231

Tortanus discaudatus

(2)

-- --, Johnson, 1958. p. 276

-- --, Anraku, 1964. pp. 46-60

θ-- --, Omori, 1965. pp. 18-27

-- --, Northcote et al, 1964. p. 1079

-- --, Faber, 1966, p. 420.

-- -- Johnson, M.W., 1967, pp. 405-410.

-- -- McLaren, 1966, pp. 457-469.

-- --, Deevy, 1948, p. 37

-- --, Bowman, 1971, pp. 521

-- Zillioux and Gonzalez, 1972, p. 217.

--, Sato, 1913, no. 29, pl. 7, 8

-- Deevy, 1952a = 91-92

-- Deevy, 1960a: 16

--, Shen, 1955, p. 96

--, Shen & Bai, 1956, p. 225-6

--, Fulton, 1968, p. 43, fig. 28

--, Van Engel & Tan, 1965, p. 184-

--, Meshcheryakova, 1964, p. 151

--, Lubni-Gertsik, 1959, p. 71-

--, Sherman, 1968, p. 6

--, Maclellan, 1967, p. 102.

--, Hue, 1967, pp. 16,18.

--, Taw, 1974, p. 270.

--, Bjornberg, 1963: 100 (table)

-- Deeney, 1952 b: 131, 146

--, BARSZCZ & YEVICH, 1976: 104

TORTANUS DISCADATUS

CARD 3

--, LANDRY, 1978: 1112

--, CARTER, 1965: 353

--, HEIP & SMOL, 1976: TAB. 5

--, LACROIX & FILTEAU, 1971: 776, 797-799, 800, 802, 803, 804  
805, 809, 810; FIG. 14, 15, 20; TAB. 10, 17, 18

--, KOS, 1977: 39, 48, 50

--, KNATK, 1978: 70; TAB. 1

--, ITOH, 1970: FIG. 3, 4; TAB. 1, 2

--, JOHNSON, 1956a: 16; FIG. 4-6; TAB. 1, 6

--, HEINLE, 1969: FIG. 8

--, TAGUCHI & TOKUCHI, 1975: TAB. II

--, BOUSFIELD 1955: p. 52; TAB IX.

--, FIGUEIRA 1971: 153.

— Willey, 1923: 320-22, 325, 330

Tortanus discaudatus

card 4

--, Kasahara, S., S. Uye, & T. Onbé, 1974, p. 167

--, Turner, 1981, p. 369, tbl. 2

--, Grice & Marcus, 1981, passim

--, Gardner & Szabo, 1982, p. 28, 424-425, fig. 29.1.1

--, Turner, 1982, p. 269

--, Ambler & Frost, 1974: 446-450.

—, Lacroix, 1966: 52

—, Lacroix, 1963a: 64-66

--, PETERSON & MILLER, 1977: 718

- Tanaka, 1965a: 31, fig. 9a-c
- Harding, et al, 1986: 960
- Dawson & Knatz, 1980: 106, pl. 93, fig. a-j
- AMBLER ET AL. 1985: 189, SAN FRANCISCO BAY

TORTANUS DISCAUDATUS

CARD 5

- , MOTODA + MINODA, 1974: 215, 233, FIG. 10.3
- KOGA 1960b: 879
- KOGA 1968: 17, 18, PL. I FIGS. 17, 18 - EGG
- KOGA 1973: 33, FIG. 4-17, 18 - EGG
- KOGA 1984b: 103, 147, 189, FIG. 61-20, NAUPLIUS;  
FIG. 11-17, 18 - EGG; FIG. 9-11, NAUPLIUS
- BRUNEL 1963b: 85, TAB. I - GULF OF ST. LAWRENCE
- GRICE + HART 1962b: TAB. 3, W. N. ATLANTIC
- Lawrence & Sastry, 1985: 151-167

Tortanus discaudatus

card 6

- Vyshkvartzeva 1972b: 162
- IZAWA 1987: 174
- OTHMAN 1987: 71
- SAGE & HERMAN 1972: 32, SANDY HOOK BAY, NJ
- OHTSUKA ET AL. 1988: 54
- DAVIS 1982: 732, NEWFOUNDLAND
- DAVIS 1986: 35, "
- Lonsdale, et al 1979: 245
- CITARELLA 1988: 126, ST. LAWRENCE GULF, CANADA
- TESTER 1985: 51

Tortanus discaudatus

card 7

-- Greene, C.H. 1988: 298-

-- SHIH ET AL. 1988: 319-324, BRAS D'OR LAKES,  
NOVA SCOTIA

-- LINDLEY 1990: 216

-- JIMENEZ PEREZ 1989: 91-, BAHIA DE TODOS  
SANTOS, BATA CALIFORNIA

-- MONTU' 1989: 40-, FIG. 3C

-- BURRELL + ZWERNER 1972: 139, CHESAPEAKE BAY

-- GRANT 1977: 4-58-, OFF NEW JERSEY

Tortanus discaudatus (Thompson & Scott)

card 8

-- Harding, G. et al. 1980:32-, Nova Scotia

-- SHIH ET AL. 1971: 50-51, CANADA-ATLANTIC;  
153, PACIFIC; 208-209, ARCTIC

-- CITARELLA 1984: 139-, SHÉDIAC BAY, NEW BRUNSWICK,  
CANADA

T. DISCAUDATA, COYLE ET AL. 1990: 764-, AUK BAY, ALASKA

-- GREENE, C. H. & LANDRY 1985: 1414

-- OHMAN 1986: 686-, DABOB BAY, WASHINGTON STATE

-- HADA & UYE 1991: 155-

Tortanus discaudatus (Thompson & Scott, 1897) card 9

-- Ohtsuka 1992: 263, 264

-- LINDLEY 1992: 370

TARTANUS -, MESCHERYAKOVA 1970: 97

-- JAZHINA 1969: 140-

-- LEGARÉ + MACLELLAN 1960: 434, MANNE/NEW BRUNSWICK,  
USA/CANADA

-- OHTSUKA, UEDA ~~ELIAN~~, 1995: 158, 159, TAB. 1

-- ACKMAN ET AL. 1974: 1813, NORTH ATLANTIC

-- FLEMINGER + KRAMER 1988: 538

Tortanus (Atortus) erabuensis Ohtsuka, Fukuura & Go, 1987

--- Ohtsuka et al. 1987: 54-63, figs. 1-4, pl. I, n. sp.

♀♂, Kyushu

-- OHTSUKA & ONBE' 1989: 869

T. (A.) -, OHTSUKA 1992: 265, IN SUBGEN. ATORTUS

Pontellidae - Calanoida.

Tortanus forcipatus (Giesbrecht), ♀.  
♀ only pl. 42 fig. 34  
37

forcipata. ?  
Corynura f - a Giesbrecht, 1889, p. 26; 1892, p. 525

Tortanus f - Thompson & Scott, 1903, p. 254.

Tortanus f - us Giesbrecht & Schmeil, 1898, p. 158.

— — Sewell, 1914, p. 249: pl. 21, fig. 6.

--, ~~Gies~~ Bjornberg, 1963: 100 (table)

Habitat: Indian Ocean: Pacific.

♀ only

Giesbrecht 1892 pl. 31 fig. 2, 5, 7, 9, 10, 12, 15.

- — Steuer, 1926, p. 60: fig. 7, a, a', b, b' — d. 3  
— —: Sewell, 1933, p. 29. Malaya.  
— — Sewell 1932, p. 399  
— —, MORI, 1937, P. 105, *forma* 56  
— —, Chiba, 1957, p. 60-61. pl. 51 # 11-14  
— —, Tanaka, 1965, pp. 62  
— —, Saraswathy, 1967, p. 85  
— —, Chiba, 1956, p. 35, fig. 26, 34; p. 60  
T. forcipata, Sato, 1913, no. 30, pl. 3  
— —, Shen, 1955, p. 96  
— —, Fruchtl, 1924, p. 62-4, ♀ *Corynura* f. is a syn.  
— —, JOHNSON, 1980: 567, 576, 580

TORTANUS FORCIPATUS (GIESBRECHT) CARD 2

- , HIROTA & UNO, 1977: 77, 78, 79, 81, 83; FIGS. 3 (EGG), 8
- , HIROTA, 1979a: 14; FIG. 3
- , GOSWAMI & GOSWAMI, 1974: 109, 112; TAB. 1, 2
- , FAZAL-UR-REHMAN, 1973: 113-117 ♀♂ VARIATIONS
- , ITOH, 1970: TAB. 1
- , Kasahara, S., S. Uye, & T. Onbé, 1974, p. 167, figs 1 & 2
- SHEN & TAE 1966: 214- CHINA

Tortanus forcipatus (Giesbrecht)

card 3

--, Kasahara, S., T. Onbé, & M. Kamigaki, 1975, p.31

--, Kasahara, S., S. Uye, & T. Obné, 1975, p.27, fig.2 (eggs)

--, Grice & Marcus, 1981, passim

-- Sreekumaran et al, 1981: passim

-- Madhupratap et al 1981: passim

--, SATO & HIRANO, 1978: 151, 152

--, HIROTA, 1981: 31, TAB.1

-- UYE & KASAHARA 1978: 109, 116, 118, 119

-- UYE ET AL. 1984: 392, 397-400.

Tortanus forcipatus (Giesbrecht) 1889

card 4

\_\_\_, Uye 1984b: 163, 165-6

-- KOGA 1984b: 113, FIG. 9-10, NAUPLIUS; 127, 147,  
FIG. 31, TABLE 1-(19); 189

✓ -- GOSWAMI 1983: 256-257, INDIA

— Tanaka, 1965a: 37, fig. 3a-b

-- MADHUPRATAP & HARIDAS, 1986: 109<sup>112</sup>, INDIAN OCEAN

-- MICHEL ET AL. 1986: 21, 35- ARABIAN GULF

-- MICHEL ET AL. 1986: 67, 75- ARABIAN GULF

-- TOKIOKA 1951: 21, EIGU BAY, JAPAN

— Sarkar, et. al., 1986: 178

- UYE, 1985: 440-445 +bl.1, fig.1  
-- MAUCLINE 1988: 717  
-- OTHMAN 1987: 71  
-- OHTSUKA ET AL. 1987: 54  
-- CHEN, Q-C 1986: 528  
-- ONOÉ 1978: 1411, JAPAN - RESTING EGGS  
-- UYE + FLEMINGER 1976: 253  
-- UYE ET AL. 1987: 428-, INLAND SEA, JAPAN  
-- UYE + MATSUDA 1988: 281-, " " "  
-- MICHEL + HERRING 1984: 328-, ARABIAN GULF  
-- BAN & MINODA 1991: 299-

Tortanus forcipatus (Giesbrecht, 1889)

card 5

-- Ban & Minoda 1992: 51, 54

-- OHTSUKA 1992: 265, IN TORTANUS S. STR.

-- FLEMINGER & KRAMER 1988: 538

Tortanus giesbrechti sp. nov.

-- -- Jones & Park, 1968, pp. 152-158.

- - , Bowman, 1971, p. 521, 524, 527

- (ATORTUS)-, OTHMAN 1987: 72

- (A.)-, OHTSUKA 1992: 265, IN SUBGEN. ATORTUS

Pontellidae - Calanoidea

Tortanus gracilis (Brady), ♀.

11-14

- Corynura — Brady, 1883, p. 71: pl. 33, f. 1, 2, 4, 9, r  
Tortanus g — Thompson & Scott, 1903, p. 254.  
Corynura — Giesbrecht, 1892, p. 525.  
Tortanus — Giesbrecht & Schmeil, 1898, p. 158.  
— Mori, 1942: 558

Habitat. Philippine Islands: Gulf of Suez.

- — Cleve, 1901, p. 9, 51: pl. 7, f. 11-14: 1903, p. 369  
— — A. Scott, 1902, p. 423: 1909, p. 190  
— — Wolfenden, 1905, p. 1026.  
— — Sewell, 1912, p. 377: 1914, p. 248.  
— — Steuer, 1926, p. 58: fig. 3, a, a'-d, text.  
— — Sewell 1932, p. 398  
— —, FURUHASHI, 1951, P. 18, MAIZURU BAY, JAPAN.  
— —, C. B. Wilson, 1950, p. 346.  
— —, Saraswathy, 1967, p. 85  
— —, Chiba, 1956, p. 42  
— —, Shen, 1955, p. 96

Tortanus gracilis (BRADY, 1883) 2

--, Fruchtl, 1924, p. 64

--, Bjornberg, 1963: 100 (table)

--, JOHNSON, 1954: 309

--, GOSWAMI & GOSWAMI, 1974: 109, 110, 112; TAB. 1, 2

--, FAZAL-UR-REHMAN, 1973: 113, 116-117

- Chen, 1980: table 1

-- UYE & KASAHARA 1978: 113

-- WICKSTEAD 1962: 546

- Binet & Dessier, 1968: 14

-- MADHUPRATAP & HARIDAS, 1986: 109, <sup>112,</sup> INDIAN OCEAN

- Sarkar, et al., 1986: 178

Tortanus gracilis (Brady, 1883)

card 3

-- Mauchline 1988: 717

-- OTHMAN 1987: 71

-- OHTSUKA ET AL. 1987: 54

-- DANSTEDT 1986: 26-

-- LE BORGNE 1986: 142-

-- CHEN, Q-C + ZHANG 1986: 274, SOUTH CHINA SEA

-- OHTSUKA 1992: 264-265, SELECTED AS TYPE SP. OF  
TORTANUS (TORTANUS)

TORTANUS LONGIPES BRODSKY, 1948

— — 1948

— — 1950, p. 433, fig. 306

-- --, Tanaka, 1965, pp. 62-64, fig. 250 a-k

- - , Bowman, 1971; p. 521, 527

T. (ATORTUS)—, OTHMAN 1987: 71, 72

-- OHTSUKA ET AL. 1987: 54

T. (A.)—, OHTSUKA 1992: 265, IN SUBGEN. ATORTUS

Tortanus lophus Bowman

--, Bowman, 1971, pages 525-528, figures 2i-k, 4, 5.

- (ATORTUS)-, BOWMAN 1986: 239, 241

- (ATORTUS)-, OTHMAN 1987: 72

- (A.)-, OHTSUKA ET AL. 1987: 58

- (A.)- OHTSUKA 1992: 265, IN SUBGEN. ATORTUS

Pontellidae - Calanoida

Tortanus murrayi A. Scott, ♂. ♀.

— — A. Scott, 1909, p. 191: pl. 56, f. 1-8.

— — Steyer, 1929, p. 65: fig. 7, a, a'-d.

- - , Bowman, 1971, p. 521, 524, 525, 527, 528, figs. 3b-g, 5.

T. Murrayi, Rose, 1956, p. 462

-- JOHNSON, 1954: 309

Habitat. Malaysia.

-- MADHUPRATAP & HARIDAS, 1986: 112

Tortanus (Atortus) murrayi A. Scott

2

--- Bowman 1986: 239, 241

--- OTHMAN 1987: 71-72

--- OHTSUKA ET AL. 1987: 54, 58

--- OHTSUKA 1992: 265, DESIGNATED TYPE OF  
SUBGEN. ATORTUS N. SUBGEN.

Pontellidae - Calanoida.

Tortanus recticaudus (Giesbrecht) ♀, ♂.

-531

Corynura n-a Giesbrecht, 1889, p. 26; 1892, p. 525.

Tortanus n-a Giesbrecht & Schmeil, 1898, p. 158.

— — Steuer, 1926, p. 63; fig. 6, a, b, b' - d. 159.

- - , Bowman, 1971, p. 521, 524, 527, 528

- -: Bowman, 1986, passim. Persian Gulf at Ruwais, UAE.

- RECTICAUDA, MICHEL ET AL. 1986: 67, 75 - ARABIAN GULF

Habitat, Anasab: Red Sea.

- p: CBWilson 1950:347. Iloilo Straits, Philippines.

Tortanus (Atortus) recticauda (Giesbrecht, 1889) 2

--- Bowman 1986: 239-242, fig. 1, Arabian Gulf; gives synonymy

-- RETICAUDA, OTHMAN 1987: 71, 72

---, OHTSUKA ET AL. 1987: 59-60

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

I. (A.) -, OHTSUKA 1992: 265, IN ATOIRTUS-SUBGEN.

Tortanus rubidus Tanaka 1965

-- -- Tanaka, 1965, pp. 64-66, fig. 251, a-f

- - , Bowman, 1971, p. 521, 527 .

- (ATORTUS)-, OTHMAN 1987: 71, 72

-- OHTSUKA 1987: 54

- (A.)-, OHTSUKA 1992: 265, IN SUBGEN. ATORTUS

Tortanus ryukyuensis Ohtsuka & Kimoto, 1989

-- (Atortus) -, Ohtsuka 1992: 265, in subgen. Atortus

Tortanus scaphus Bowman 1971

- , Bowman, 1971, pages 521-528, figures 1, 2a-h, 3a, 5.
- (ATORTUS) -, BOWMAN 1986: 239, 241
- (ATORTUS) -, OTAMAN 1987: 72
- OHTSUKA ET AL. 1987: 54
- (A.)-, OHTSUKA 1992: 265, IN SUBGEN. ATORTUS
- (A.)-, MCKINNON 1993: 1-3, FIG. 1a-c; VARIANT FORM, FIG. 1d, e; DAVIES REEF, GREAT BARRIER REEF, AUSTRALIA; NON-VARIANT, KOROR, PALAU IS.

Pontellidae - Calanoida.

Tortanus setacaudatus Williams, ♀.

— — Williams, 1906, p. 649, text-figs. 12-15.

— — Williams, 1907, p. 72.

— — Steuer, 1926, p. 56<sup>58</sup>: fig. 2, a-d, text.

— — Wilson, 1932, p. 168<sup>9</sup>: fig. 115.

— — , Grice, 1960, p. 220. W. coast Florida. [in list]

Habitat, Rhode Island.

--, Bjornberg, 1963: 100 (table)

--, Cozouzo Rest, 1963: 139, 140, 146, 148, 152

Tortanus sp [?], Foster, 1904, p. 77. Louisiana.

--, Curzon du Rest, R., 1963, 140, 148-150

-- -- Faber, 1966, p. 198-199.

-- , Bowman, 1973, p. 521

-- REY ET AL. 1987: 65-, INDIAN RIVER AREA, FLORIDA

-- OTHMAN 1987: 71

-- WILSON, C. B. 1936: 84-, YUCATÁN

-- REID 1990g: 192

-- OHTSUKA 1992: 255-, TRANSFERRED TO  
AGUTANUS N. SUBGENUS; FIG. 5A, CE, FJ + 6B,  
WAQUOIT BAY, FALMOUTH, MASSACHUSETTS

Tortanus (Acutanus) setacaudatus Williams, 1906 card 2

T. s., Alvarez-Silva 1989: 4, Veracruz, Mexico

--, ALVAREZ-SILVA 1988: 167-, VERACRUZ, MEXICO

-- ALVAREZ-SILVA 1996: 17-21, TAB. 2, " "

= T. SHENI HULSEMANN 1988

Tortanus denticulatus Shen & Lee, 1963

① (R)

possible 2ndary homonym ?

n. sp., Shen & Lee, 1963, pp. 585-7, 595, figs. 41-45

--, Bowman, 1971, p. 521

--, Bowman, 1971, p. 521

-- SHEN & LEE 1966: 214-CHINA

-- CHEN & ZHANG 1965: 130.

-- OHTSUKA ET AL. 1987: 54

-- CHEN, Q.-C. 1986: 524-

-- HULSEMANN 1988b: PROPOSED SHENI AS REPLACEMENT

NAME

-- OHTSUKA 1992: 264, = T. DENTICULATUS SHEN & LEE

TORTANUS SHENI HULSEMANN, 1988

2

-- OHTSUKA, UEDA + LIAN 1995: 147, 159, TAB. 1

Tortanus sinicus Chen, 1983

--, Chen, <sup>Q.C.</sup> 1983:133-138., 4 figs. 1-2

~~(A.)~~ OHTSUKA ET AL. 1987: 54, 58, 60

T. SINENSIS, CHEN, Q.C. 1986: 524-

I. (A.) -, OHTSUKA 1992: 265, IN SUBGENUS ATORTUS.

Tortanus spinicaudatus Shen & Bai, 1956

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Tortanus spinicaudatus Shen & Bai, 1956, pp. 197-199,  
pl. 6, fig. 47-48, pp 224-6

--, Bowman, 1973, p. 521

--, Bowman, 1971, p. 521

--, Kos, 1977: 39, 50

--, CHENG et. al. 1965: 2.

-- OHTSUKA ET AL. 1987: 54

-- CHEN, Q.-C. 1986: 524-

-- OHTSUKA 1992: 264

TORTANUS SPINICAUDATUS SHENT BAI, 1956 2

-- OHTSUKA, UEDA & LIAN 1995: 147, 159, TAB. 1

Tortanus tropicus Sewell

\_\_\_\_ Sewell 1932, p. 400, fig. 131, ♀♂, Indian O.

-♂, Bowman, 1971, p. 527.

--, Bjornberg, 1963: 100 (table)

--, MADHUPRATAP & HARIDAS, 1986: 112

T. (ATORTUS) -, OTTMAN 1987: 71, 72

T. (A.) -, OHTSUKA 1992: 265, IN SUBGEN. ATORTUS

Tortanus vermiculus Shen, 1955

--, Bowman, 1973, pp. 521,

n. sp., Shen, 1955, pp. 75, 80-81, 96-7, pl. I (5-6)

--, Shen & Lee, 1963, p. 587

--, Bowman, 1971, p. 521.

- Chen, et al, 1982: 260 *passim*

-- OHTSUKA ET AL. 1987: 54

-- CHEN, Q.-C. 1986: 524-

-- OHTSUKA 1992: 264

-- OHTSUKA, UEDA & LIAN 1995: 147, 159, TAB. 1

TORTANUS SP.

- , BAYLY, 1965: 330, 340, 342
- OHTSUKA 1992: 265, IN SUBGEN. ATORTUS ("FROM SOUTH YEMEN")
- FLEMINGER + KRAMER 1988: 536, TAB. 1, CALIFORNIA, USA

TORTANUS SP. REVIS 1988

-- REVIS 1988: 344-, KENYA, N. SP.