

Euchirella

Giesbrecht, 1888

E. rostrata
(Claus)

- Syn. Euchirella, Giesbrecht, 1892, p. 54. ¹²³²
- Euchirella, Esterly, 1905, p. 150
- Undina (pars) Tubbock, 1856, p. 21,
- Calanus (pars) Tubbock, 1856, p. 15,
- Undina Claus, 1863, p. 186,
- Euchaeta (pars) Brady, 1883, p. 59,
- Euchirella Cleve, 1900, p. 4.

Euchirella Wolfenden, 1903, p. 267.

Euchirella Hysterly, 1909.

Not Undina, Dana, 1849, 1852.

Not Undina Brady, 1883.

Euchirella Giesbrecht, 1888, a, p. 336.

Euchirella Giesbrecht & Schmeil, 1898, p. 34.

Euchirella Testa, 1921, p. 509

CALANOIDA, AETIDEIDAE

EUCHIRELLA

GIESBRECHT, 1888

CARDI

--, VAUPEL-KLEIN, 1972 SYSTEMATIC CHARACTER

--, TANAKA, 1957d: 176, 190, 192, 205

--, PARK, 1978: 147

—, Bradford & Jillett, 1980, pp 30-33.

—, Gardner & Szabo, 1982, p. 26, 233.

—, ~~Van~~ Vaupel Klein, 1982: 1-48

— Vaupel Klein, 1984: part 1: 3-18! (Whole Book)

part. 5. 1-44

part. 6 1-48

part 7: 1-31, 164-17

EUCHIRELLA GIESBRECHT, 1888

CARD 2

- NISHIDA, 1984: 37

- FERRARI, 1980: 543

- MAUCKLINE 1988: 730-; FIG. 20A, PORE SIGNATURE

- SCHUK 1990: 187-

- VYSHKVAITSEVA 1994: 120

Euchirella acadiana Willey

—— ——— Willey 1918, p. 190, figs. 10-16, ♀. Gulf of
St. Lawrence

Euchirella acuta Tanaka & Omori

SYD: E. UNISPINA PARK, ~~1976~~

-- -- Tanaka & Omori, 1969, pp. 34-37, fig. 1 a-n

--, PARK, 1976⁸: 101

Euchirella amoena Giesbrecht, ♂.

= E. bella

Length 3.35 mm.

— — Giesbrecht, 1888, p. 336.

— — Giesbrecht, 1892, p. 233, 244; pl. 15, f. 20

— — Giesbrecht & Schmeil, 1898, p. 36.

— — Esterly, 1905, p. 155: text-fig. 21, a-b.

— —, Owre, 1962

Habitat. California Coast; Mediterranean

— Bowman, 1971, p. 5-

— ~~Brongersma~~ ~~Field~~, 1972, pp. 501-511
VANDEL KLEIN

- — A. Scott, 1909, p. 53.
— — Rose, 1929, p. 21: pl. 1, fig. 3.
— — , Chiba, Tsuruta, & Maéda, 1955, p. 406, fig. 5. Immat. ♂. Bikini.
— — MORI - 1937, P. P. 42. JAPAN
— — , BRODSKY, 1950, P. 174, FIG. 89, USSR
-- --, A. G. Fish, 1962. p. 21, fig. 12
-- --, Grice, 1962. pp. 194, 196. pl. 10, fig. 5-10
-- -- Park, 1968, pp. 527-572.
-- --, Tanaka & Omori, 1969, pp. 37-38,
-- --, Chiba, 1956, p. 32, fig. 22
-- --, Morris, 1970, p. 2300.
-- --, Roe, 1972a, pp. 294-

Euchirella amoena

Card 2

- TANAKA, O., OMORI, M., 1969, p. 155, 156.
- , FURUHASHI, 1961: 106
- , VAUPEL KLEIN, 1980: 153
- , PARK, 1976 b: 101, 103-109, 119-121, FIG. 1
- , VAUPEL-KLEIN, 1972: 500, 501, 504, 506, 507, PL. 4a-c (SEM)
- , TANAKA, 1957d: 176-177
- , OWREN & FOYO, 1964b: 361, 363
- , OWREN & FOYO, 1972: 493; TAB. 3
- , CALEF & GRICE (UNPUBL.) IN KETCHUM & RUTHER
1966 (UNPUBL.): APPENDIX
- , BRADFORD & JILLET, 1980, P. 33, FIG. 19.

Euchirella amoena GIESBRECHT card 3

- von Jauper Klein, 1982, passim
- Madhupratap et al 1981: 266-267
- Jauper Klein, 1984: ^{part 2} 501 - passim, Tbl. 1, 2
pl. 4 a - c
part. 7.: 36., fig. 5K, 6g, 8g, 9c, 10g, 11b, 12d, 16
- SANDER & MOORE 1978: 232
- YOUNG-CLUTH 1979: 22, CARIBBEAN
- GRICE & HART 1962b: TABLE 3, w. NORTH ATLANTIC
- Bjornberg, 1981: 632, fig. 210 #11

EUCHIRELLA AMOENA GIESBRECHT

CARDY

--, MADHU PRATAP & HARIDAS, 1986: 108, 109,

INDIAN OCEAN

-- Devey & Brooks, 1977: 263

-- STEPHEN 1984: 169-, ARABIAN SEA

-- Soldevilla, et al. 1988: 58 Canary Islands

-- CUMMINGS 1982: 33-, GULF OF MEXICO

-- SUAREZ, F. & GASCA 1989a: 198-, YUCATAN CHANNEL

-- GRANT 1977: 4-8-, OFF NEW JERSEY

-- COPLEY ET AL. 1989: 12-, NW ATLANTIC

Euchirella amoena Giesbrecht

card 5

-- Suarez, E. et al. 1990:126-, w. Gulf of Mexico

-- REID 1990g: 185

-- SUÁREZ M. 1992:135-, GULF OF MEXICO

-- SUAREZ & GASCA 1991: 596-, GULF OF MEXICO

-- VYSHK VARTZEVA 1994:119

-- VAUPEL & KLEIN 1989: 164, 167, ALBATROSS STA. 4700, PACIFIC

EUCHIRELLA AREATA TANAKA, 1957

- TANAKA, 1957 d: 186-187 ♀, FIG. 50
- FURUHASHI, 1961: 106
- VAUPEL KLEIN 1989: 163

Euchirella atlantica Wolfenden ♀

— — Wolfenden, 1905, p. 20.

— curticauda With, 1915, p. 118.

--

Aetideidae - Calanoida.

Euchirella bella Giesbrecht, ♀.
Length 3.8 mm.

— — Giesbrecht, 1888, p. 336.

— — Giesbrecht, 1892, p. 233: pl. 15, f. 26.

— — Giesbrecht & Schmeil 1898, p. 35.

— — Sewell 1929, p. 108 syn. list, p. 109

hessei, A. Scott 1909

Habitat. Tropical Pacific.

^{VAUPEL-KLEIN}
~~Brongersma~~, 1972, pp. 501-511

— — , Sewell, 1947, p. 71 FIG. 13-A-F.

— — , Vervoort, 1949, p. 17, Figs. 8a, 9c, G. CELEBES AREA.

E. bella, Grice, 1962. p. 194, pl. 9, fig. 1-13

-- -- Tanaka & Omori, 1969, pp. 38-40, fig. 2 a-1

---- ~~Tanaka & Omori, 1969, pp. 155-156~~

--, VAUPEL KLEIN, 1980: 153

--, VAUPEL-KLEIN, 1972: 501, 504, 506, FIG. 2a, b

--, STEPANJANTS, 1977: 78, 85; TAB. 1, 3

Euchirella bella

card 2

--, ~~van~~ vaupel Klein, 1982, *passim*

— Vaupel Klein, 1984, part. 2: 501-*passim*
tbl. 1, 2.

part. 7: 36-37, fig. 50, 6h, 9d, j, 10h
11d, 12c, 16+

-- MADHUPRATAP & HARIDAS, 1986: 108, INDIAN OCEAN

-- VAUPEL KLEIN 1989: 145, 146, 160-169, ALBATROSS STA. 4700,
PACIFIC

Euchirella bella var indica

--, Wolfenden, 1906: 1006-1007,
pl. 96, fig. 17-20

-- VAUPEL KLEIN 1989:163

Aetideidae - Calanoida

Euchirella bitumida With, ♂, ♀.
Length 61-67 mm.

— — With, 1915, p. 131¹³²: pl. 5, figs. 9, a-g;
pl. 8, figs. 4, a-e: text-fig. 34.

— — Sars, 1925, p. 74: pl. 21, figs. 15-18.

Sewell 1929, p. 110, may be syn. *E. galeata*

— —, VERVOORT, 1949, p. 35, fig. 17, - FLORES SEA.

Habitat. North Atlantic.

— —, Jespersen, 1940, p. 25. S. of Iceland.

— —, Owre, 1962

~~Brauer~~ VAUPEL-KLEIN, E.L.D., 1972 pp 501-511

- -- Tanaka & Omori, 1969, pp. 40-42, fig. 3 a-g
-- , Morris, 1970, pp. 2300, 2306-7, fig. 4.
-- , Roe, 1972a, pp. 294-
-- , Tanaka, Omori, 1969, pp. 155-156.
-- , Furuhashi, 1961: 106
-- , VAUPEL KLEIN, 1980: 153
-- , PARK, 1976b: 101, 103-107, 109-110, 120-121, FIG. 2
-- , VAUPEL-KLEIN: 1972: 500, 501, 504, 506, 507, FIG. 2c,d; PL. 5a
-- , TANAKA, 1957d: 189-190 ♀ FIG. 52
-- , OWREN-FOYO, 1964b: 363

EUCHIRELLA BITUMIDA

CARD 2

-- CALEF & GRICE (UNPUBL.) IN KETCHUM & RYTHE
1966 (UNPUBL.): APPENDIX

-- Bradford & Jillett, 1980, pp. 33-35, fig. 20.

-- Grice & Hulseman, 1968: tbl. 2.

- Vaupel Klein, 1984, part 2: 501-passim

tbl. 1-2, pl. 5a ~~men~~

part 7: 37-38, fig. 4a, 6f, 7g, 15f, 16g

- Deevey & Brooks, 1977: 263

-- MAUCHLINE 1988: 730

-- Soldevilla, et al. 1988: 58 Canary Islands

-- CUMMINGS 1982: 34-, GULF OF MEXICO

-- COPLEY ET AL. 1989: 12-, NW ATLANTIC

-- SUÁREZ, E. ET AL. 1990: 126-, W. GULF OF MEXICO

-- SUÁREZ M. 1992: 135-, GULF OF MEXICO

-- SUAREZ * GASCA 1991: 596; GULF OF MEXICO

-- VYSHKVARTZEVA 1994: 119

Aetideidae - Calanoida.

Euchirella brevis G.O. Sars, ♀

Length 3.90mm. ①

— — Sars, 1905, p. 12

— — Sars, 1925, p. 71: pl. 21, figs. 1-7.

— — Farran, 1929, p. 234.

— — Sars, 1925, p. 71: pl. 21, figs. 1-7.

Habitat. Station 1639, 1802, 1856, Monaco,
Azores: Canaries, Australian
Archipelago

— — Rose, 1929, p. 20.

— — Wilson 1942, 185

— — Sewell 1929, p. 109, Indian O.

— —, BRODSKY, 1950, P. 177, FIG. 93. USSR

--, Paiva, 1971, p. 21-22

--, Wolfenden, 1905, p. 18-19, pl. 6

--, Vives, 1972, pp. 210, 211, fig. 2.

--, Bjornberg, 1963: 9, 37, 104 (2 tables), table 10, 124

-- TRANTER 1977: 598.

EUCHIRELLA BREVIS G.O. SARS

CARD 2

- MADHUPRATA P + HARIDAS 1986: 108, INDIAN OCEAN
- SUAREZ, E. + GASCA 1989c: 94-, COSTA RICA DOMESTIC
- REID 1990g: 185
- ALVAREZ-SILVA 1996: 19, TAB. 2, VERACRUZ, MEXICO

Helidaeae - Caranidae
Euchirella carinata Wolfenden, ♀

Chirundina

Length 4.66mm.

- — Wolfenden, 1902, p. 366³⁶⁷; 1904, p. 115.
— — With, 1915, p. 124. claims as a synonym
of E. intermedia, n.sp. With: but synonymy
would come the other way around.

Habitat, Atlantic

— — Wolfenden, 1911, p. 236.

— — Fowler (Wolfenden), 1903, p. 126.

Chirundina _____ Sewell 1929, p. 123

--, Roe, 1972b, p. 342 (?Syn. Chirundina streetsii)

Euchirella curticauda Giesbrecht, ♂♀.

Length 3.5 mm.

- — Giesbrecht, 1888, p. 336. [p. 36, §. 19-20]
- — Giesbrecht, 1892, p. 233; pls. 15, §. 3, 13, 25
- — Giesbrecht & Schmeil, 1898, p. 36.
- — I. C. Thompson, 1902, p. 18.

Habitat. N. Atlantic: Malay Archipelago
Pacific

- — var. *atlantica* Wolfenden, 1904, p. 116.
— *atlantica*, n. sp., Wolfenden, 1905, p. 20.
— *curticauda* Sars, 1905, p. 4: *Farran*, 1905, p. 35.
— Esterly, 1906, p. 59: pl. 9, f. 6: pl. 10, fig. 27:
— Farran, 1908, p. 38 [pl. 12, fig. 62: pl. 13, fig. 67
— Pearson, 1906, p. 15; v. Breemen, 1908, p. 48: f. 54.
— — A. Scott, 1909, p. 55; Wolfenden, 1911, p. 236.
— — With, 1915, p. 118: ¹²²pl. 4, fig. 3, a-m: pl. 8,
fig. 2, a-e: text-fig. 29, a-e.
— — Sars, 1925, p. 72: pl. 21, figs. 8-14.
— — Wilson, 1932, p. 59: — fig. 38. 1942, p. 185
— — Sewell 1929, p. 109 — fig. 41, Indian O.
— —, BRODSKY, 1950, P. 176. FIG. 92. USSR

EUCHIRELLA CURTICAUDA GIESBRECHT

— —, JESPERSEN, 1934, P. 64, W. GREENLAND WATERS.

1940, p. 23-24. S. of Iceland.

-- --, Grice, 1962. p. 196, fig. 11-14, pl. 10

— —, Owre, 1962

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

-- -- Tanaka & Omori, 1969, pp. 42-43

-- --; Park, 1970, p. 475

--, Bowman, 1971, p. 6-

--, Morris, 1970, p. 2300.

--, Roe, 1972a, pp. 294-

- , Roe, 1972b, p. 322
- , Vives, 1972, pp. 210.
-) ~~Brongersma~~, F.L.D., 1972, pp. 501-511
VAUPEL-KLEIN
- , Tanaka, Omori, 1969, pp. 155, 157
- , Furuhashi, 1961: 106
- , PARK, 1976b: 101, 103-107, 110-112, 120-121, FIG. 3.
- , VAUPEL-KLEIN, 1972: 500, 501, 504, 506, 507, FIG. 3a, b
- , TANAKA, 1957d: 187-189 ♀ ♂ FIG. 51
- , DEEVEY, 1971: TAB. 3
- , JAWED, 1973: 62, 78, 79
- , OWREY & FOY, 1964b: 361, 363
- , OWREY & FOY, 1972: TAB. 3

EUCHIRELLA CURTICAUDA GIESBRECHT CARD 3

- , CALIFF & GRICE (UNPUBL.) IN KETCHUM & RYHER
1966 (UNPUBL.): APPENDIX
- , Gardner & Szabo, 1982, p. 26, 234-235, fig.
14.6.1
- , von Vaupel Klein, 1982, passim
- Vaupel Klein, 1984: part 2, 501-passim, tbl. 1, 2
part. 7: 38, fig. 3d, 4d, 6d, 8d, 10d, f, 11a, l
13e, g, j, 16g, 26a-c; pl. 2 b-c.

EUCHIRELLA CURTICAUDA GIESBRECHT CARDY

-- MADHUPRATAP + HARIDAS 1986: 108, INDIAN OC

-- Deewey & Brooks, 1977: 263

-- MAUCHLINE 1988: 730

-- STEPHEN 1984: 169-, ARABIAN SEA

-- Soldevilla, et al 1988: 58 Canary Islands

-- CURTICUADA, CUMMINGS 1982: 34-, GULF OF MEXIC

-- COPLEY ET AL. 1989: 12-, NW ATLANTIC

-- SHIH ET AL. 1971: 32, CANADA-ATLANTIC

ENCHIRELLA -, ALVARIÑO 1989: 69-, OFF S. CALIFORNIA

Euchirella curticauda Giesbrecht

card 5

-- Suarez M. 1992: 135-, Gulf of Mexico

Euchirella curticauda Atlantica Wolfenden, 1904

---, Wolfenden, 1905, p. 20

---, VAUPEL KLEIN, 1980: 153

---, Bradford & Jillett, 1980, p. 35, fig. 21.

= Euchirella curticauda, Cardiner & Szabo, 1982, p. 26,
234-235.

Aeridaeae - Catantopidae

Erechirella dentata A. Scott, ♀

Length 7.5 mm.

— A. Scott, 1909, p. 59: pl. 13, figs. 13-21

Habitat: Manipa Strait.

Actideidae - Calanoida

Euchirella dubia A. Scott, ♀ length 7 mm.

— — A. Scott, 1909, p. 60: pl. 14, figs. 1-7.

-- (= PSEUDOCHIRELLA ORTUSA), PARK, 1978: 158

Habitat, Manipa Strait.

Aetideidae - Calanoida

Euchirella elongata Wolfenden, ♀
Length 7.5-7.7 mm.

— — Wolfenden, 1911, p. 239: pl. 28, fig. 6
text-fig. 25.

nsp., Wolfenden, 1905, p. 19, pl. 6

-- (= PSEUDOCHIRELLA E.), PARK, 1978: 159

Habitat. Antarctic pack-ice, 3000 m.

Aetideidae-Calanoida

Euchirella formosa Vervoort

Vervoort, W., --- 1949, pp. 29-32, figs. 14-15.

Bowman, 1970, pp. 2300 & 2304.

--, Bradford & Jillett, 1980, p 35, fig. 22.

--, Grice & Hulsemann, 1968: tbl. 2

- Vaupel-Klein, 1984: part 7: 38, fig. 10e, 11i,
12a, g, 16x, 17j.

Actideidae - Calanoida.

Euchirella galeata Giesbrecht, ♀, ♂.

Length 6.4 mm.

- — Giesbrecht, 1892, p. 233, 244: pl. 15, f. 18:
- — Fisterly, 1912, p. 281 ff. pl. 36, f. 22, 26
- — Giesbrecht, 1895, p. 251; 1888, p. 336.
- — Giesbrecht & Schmeil, 1898, p. 36.
- Tanaka, Omori, 1969, pp. 155, 157.

Habitat. California Coast; N. Atlantic.

~~Bangor~~

- — Esterly, 1905, p. 155: text-fig. 22, a-b.
— — Giesbrecht, 1888, p. 336.
— — Sars, 1905, a, p. 4.
— — Farran, 1908, p. 37.
— — A. Scott, 1909, p. 55.
— — Wolfenden, 1911, p. 241.
— — Sewell 1929, p. 110, fig. 41, Indian O.
— —, BRODSKY, 1950, P. 176, FIG. 91. USSR
— —, SEWELL, 1947. P. 74, FIG. 14, A-F.
— —, VERVOORT, 1949, P. 32, FIG. 16, INDIAN O., & CELEBES SEA AREA.
— — Tanaka & Omori, 1969 pp. 43-45, fig. 4 a-k
— —, ~~BRONKHORST~~ VAUPEL-KLEIN, F.L.D, 1972, pp. 501-511.
— —, VAUPEL KLEIN, 1980: 153

EUCHIRELLA GALEATA Giesbrecht, CARD 2

- , VAUPEL-KLEIN, 1972: 501, 504, FIG. 3c
- , von Vaupel Klein, 1982, passim
- Vaupel, Klein, 1984: part 2: 501-passim, pl. 1-
part. 7: 38, fig. 4b, 5j, 1bz, pl. 2d-e

Euchirella gracilis Wolfenden, ♀.
Length 5.6-6.0 mm.

— — Wolfenden, 1911, p. 237: pl. 27, figs. 8-10:
text-fig. 22.

— — With, 1915, p. 124 claims as a synonym
of E. intermedia n.sp. With; impossible.

Habitat. Atlantic Ocean.

-- Park, T., 1975, pp. 291, 296

Aetideidae-Calanoidea

Euchirella grandicornis Wilson

Wilson, C.B., 1950, pp. 223-225, Pl. 9, figs. 98-100;
Pl. 10, figs. 101-106.

-- -- Tanaka & Omori, 1969, pp. 45-47, fig. 5 a-i

-- , VAUPEL KLEIN, 1980 : 153

-- , PARK, 1976 b : 101

-- , PARK, 1978 : 147

- Vaupel-Klein, 1984 : 38-39-40.

part. 7 : passim, fig. 4c, 7e, 15e

-- MAUCHLINE 1988 : 730

Erechirella granulata A. Scott. ♀.
Length 5.5 mm.

— A. Scott, 1909, p. 58: pl. 13, figs. 1-12.

Habitat. Manipa Strait.

0, III 11 00112

Euchaeta hessei Brady, 1883, p. 63: pl. 23.

Euchirella bella Giesbrecht, 1888, p. 336.

— — Giesbrecht, 1892, p. 233: pl. 15.

— — Giesbrecht & Schmeil, 1898, p. 35.

Habitat, Pacific Ocean.

Euchirella hirsuta Wolfenden, ♀
Length 8.5-9 mm,

— — Wolfenden, 1911, p. 240: pl. 28, figs. 7-9.
— — Farran, 1929, p. 237.

n. sp., Wolfenden, 1905, p. 17-18, pl. 6

--; (= PSEUDOCHEIRELLA HIRSUTA), PARK, 1978: 163

Habitat. Antarctic: southern Atlantic.

Aetideidae-Calanoida

Euchirella indica Vervoort

Vervoort, W.--- 1949, pp. 23-28, figs. 8b, 9b, f, 11, 12

-- (= *E. MESSINEUSIS INDICA*), TANAKA^b & OMORI 1969: 155, 157

--, Bradford & Jillett, 1980, pp 37-39, fig. 23.

--, von Vaupel Klein, 1982b, p. 5

--, Grice & Hulsemann, 1968: tbl. 2

-- VYSHKVA RTZ E VA 1994: 119

Euchirella intermedia With, ♂, ♀.
Length 6.2 mm.

— — With, 1915, p. 124: ¹²⁷ pl. 4, fig. 4, a-c: pl. 8, f. 3
text-fig. 32, a-g.

— — Sars, 1925, p. 68: pl. 20, figs. 1-4.

— — Rose, 1929, p. 20.

— — Wilson 1942, p. 185

Habitat. North Atlantic.

— —, VERVOORT, 1949, p. 28, FIG. 13 - ARA FOERA SEA AREA.

--, DEEVEY, 1971: TAB. 3

--, BEAUDOUIN, 1973: 25, 138

--, Vives, 1972, p. 210.

-- Park, 1975, pp. 291, 295, 6.

--, TANAKA, 1957d: 183-184 ♀, 186, FIG. 48

--, CALEF & GRICE (UNPUBL.) IN KETCHUM & RUTHER
1966 (UNPUBL.): APPENDIX

-- GRICE & HART 1962a: 299, W. NORTH ATLANTIC

-- GRICE & HART 1962b: TABLE 3

-- Bjornberg, 1981: 632, fig. 210 #12

-- COBLEY ET AL. 1989: 12-, NW ATLANTIC

Euchirella latirostris Farran ♀ length 5.4mm.

— — Farran, 1929, p. 239: text-fig. 7, a-g.

-- —; Vervoort, 1957, p. 64, fig. 41

--, VAUPEL KLEIN, 1980: 153

--, (= E. ROSTROMAGNA), PARK, 1978: 153

Habitat. Antarctic.

--, Bradford & Jillett, 1980, p. 39, fig. 24.

— Vaupel-Klein, 1984; part 7: 40, fig. 4m, 13b
& pl. 1a

-- RAZOULS 1994: 78, 10

Euchirella latirostris Farran, 1929

card 2

-- Vyshkvartzeva 1994: 119

EUCHIRELLA LISSETTAE VAUPEL KLEIN, 1989

-- VAUPEL KLEIN 1989: 145-169, FIGS. 1-6, N.S.P., E.

PACIFIC OFF CENTRAL + SOUTH AMERICA

Aetideidae - Calanoida

Euchirella maxima Wolfenden, ♂. ♀.
Length - 7.5 - 8 mm.

new sp., Wolfenden, 1905, p. 18: pl. 6, figs. 9-11

-- Farran, 1908, p. 38: A. Scott, 1909, p. 57: pl. 12, f. 12-20.

-- Wolfenden, 1911, p. 238: pl. 28, f. 3-5; text f. 24, a-b.

-- Witt, 1915, p. 127: ⁻¹³⁰ pl. 4, f. 5, a-h; text f. 33, a-i.

-- Tanaka, Omori, 1969, pp. 155, 157, Fig 1

Habitat, N. & S. Atlantic: Malay Archipelago.

--, OWREN & FOYO, 1964a: 343

- — A. Scott, 1909, p. 57: pl. 12, figs. 12-20.
- — Sars, 1925, p. 75: pl. 22, figs. 1-7.
- — Sewell 1929, p. 112, fig. 42-43; dev. stages
- — SEWELL, 1947, p. 88, FIG (19-A-G.) ARABIAN SEAS.
- — Jørgensen, 1940, p. 25 ~~4~~ - S. of Iceland.
- —, Grice, 1962. p. 196, pl. 10, fig. 15
- —, Tanaka & Omori, 1969, p. 48,
- —, Roe, 1972a, pp. 294-
- —, Roe, 1972b, pp. 340.
- ?-- Vives, 1972, p. 210.
- —, ^{VAUPEL KLEIN}~~BRONKHORST~~, F.L.D., 1972, pp. 501-511.
- — VAUPEL KLEIN, 1980: 153
- —, PARK, 1976 b: 101, 103- 107, 112-113, 120-121, FIG. 4

EUCHIRELLA MAXIMA

CARD 2

-- FERRARI 1993b: 767, TAB. 2

-- VAUPEL-KLEIN, 1972: 500, 501, 504, 506, 508, PL. 5c, 6a, b

-- PARK, 1978: 147, 149-151 ♂; FIG. 30

-- Grice & Hulsemann, 1968: tbl. 2

-- Vaupel Klein, 1984: part 2: 501-passim, tbl. 1-7
pl. 5c, pl. 6a, b.

part 7: 40-41, fig. 3c, 4e, 5n, 6e
7d, i, 9h, 14h

-- MAUCKLINE 1988: 730

-- CHAMBERLAIN 1983: 35, Cuv. 11

Euchirella maxima Wolfenden, 1905

card 3

-- Razouls 1994: 10

Heterideidae — Calanoida

Euchirella messinensis (Claus), ♂. ♀.
Length 4.75 mm.

Undina — Claus, 1863, p. 187: pl. 31, f. 8-18.

Euchirella — Giesbrecht, 1892, p. 232: pls. 15 & 36.

— — Canu, 1896, p. 424: Giesbrecht, 1903, p. 201.

— — Giesbrecht & Schmeil, 1898, p. 35

Habitat. N. & S. Atlantic: Mediterranean:
Pacific.

- Not — — Th. Scott, 1894, p. 45: pl. 6, fig. 15-16.
 — — Thompson & Scott, 1903, p. 244.
 — — Cleve, 1904, p. 190: Esterly, 1905, p. 151: f. 18. ^a_d
 — — Sars, 1905, p. 4: Farran, 1908, p. 37.
 — — Pesta, 1909, p. 23: A. Scott, 1909, p. 56.
 — — Pesta, 1912, p. 13: Wolfenden, 1911, p. 237.
 — — With, 1915, p. 122: ¹²⁴pl. 4, fig. 2, a-c: pl. 8, fig. 1:
 text-fig. 31, a-g.

Undina — Carus, 1885, p. 336.

Euchirella — Stebbing, 1910, p. 527.

— — Pesta, 1921, p. 509:

— — A. Scott, 1909, p. 56.

— — ~~BRONKHORST~~ VAUPEL KLEIN, F.L.D., 1972, pp. 501-511.

Euchirella F. messinensis,

(2)

- -- Sars, 1925, p. 65: pl. 19. figs. 6-13.
-- -- Rose, 1929, p. 20.
-- -- Wilson, 1932, p. 56: fig. 36. 1942, p. 185
-- -- Sewell 1929, p. 115, fig. 44, Indian O. ♂
-- --, BRODSKIY, 1950, P. 172. FIG. 87. USSR
-- --, SEWELL, 1947, P. 78, FIG. 15.
-- --, VERVOORT, 1949, P. 28, (FIG. 9A, e, 12c) CELEBES SEA AREA.
-- --, JENSEN, 1940, p. 22-23. S. of Iceland.
-- --, Owre, 1962
-- --; Park, 1970, p. 475
-- --, Hure & Scotto di Carlo, 1968, p. 47.
-- Bowman, 1971, p. 6 -
-- MacLellan, SHIH, 1974, p. 1348.

- -. Berdugo & Kimor, 1968, p. 448
- , Rose, 1937, p. 154, illus.
- , Ehrhardt, 1967, p. 738
- , Kolesnikov, 1966, p. 156
- , Morris, 1970, p. 2300.
- , Roe, 1972a, pp. 294-
- , Roe, 1972b, pp. 337, 339, 340.
- , Vives, 1972, p. 210.
- Park, 1975, p. 297
- , Furuhashi, 1966: 312
- , Furuhashi, 1961: 106
- , VAUPEL KLEIN, 1980:152
- , PARK, 1976 b : 101, 103-107, 113-114, 120-121, FIG. 5

EUCHIRELLA MESSINENSIS

CARD 3

- , VAUPEL-KLEIN, 1972: 500, 501, 504, 506 FIG. 4c
- , TANAKA, 1957d: 179, 180-181 ♂♂, 182, 183, 185 342 UNDINELLA
- , DEEVEY, 1971: TAB. 3
- , BINET & DESSIER, 1971: 427, 452
- , FASHAM, ET AL., 1974: TAB. 1
- , OWRE & FOYO, 1964a: 354
- , OWRE & FOYO, 1972: TAB. 3
- , OWRE & FOYO, 1964b: 363

- , CAWLEY & GRICE (UNPUBL.) IN KETCHUM & RUTHER
1966 (UNPUBL.): APPENDIX
- , Bradford & Jillett, 1980, p. 39, fig. 25.
- , Vaupel Klein, 1982, passim

Euchirella messinensis

card 4

-- Vaupel

-- Klein, 1982a, passim

-- von Vaupel Klein, 1982b, passim

-- (Vaupel Klein, 1984: part 1: 11-14.

~~Vaupel~~

part. 2: 501 passim, tbl. 1-2
fig. 4c

part. 4: 374-391, fig. 1 — pl. 1-3

part. 6: 1-116, fig. 1-17, pl. 1-23

part. 7: 34-35, fig. 5e-f, 8K, 17a, 25b

EUCHIRELLA MESSINENSIS

CARD 5

--, NISHIDA, 1984: 37

--, FERRARI, 1980: 543

-- VAUPEL & KLEIN 1984b: 110-112, FIG. 1.

-- GRICE & HART 1962b: TABLE 3, w. NORTH ATLANTIC

- Tanaka, 1965a: 21, fig. 8a-d

- Bjornberg, 1981: 632, fig. 210 #16

-- BRESCIANI, 1986: 126, 137 - tegument

-- MADHUPRATAP & HARIDAS, 1986: 108 - INDIAN OCEAN

- Devey & Brooks, 1977: 263

- Hure, 1955: 25

- Hure, 1961: 19

-- MAZZA 1965: 285, 296-307, FIGS. 11-17, DEVELOPMENT,
W. MEDITERRANEAN

- Vives, 1978: 265, tbl. 1

- MAUCKLINE 1988: 730

- KIORTSIS ET AL. 1969: 37-, AEGEAN

- LE BORGNE 1986: 133-

- VAUPEL KLEIN, 1986: 494-499, FIGS. 1c, 3c-e, h-i

Euchirella messinensis

card 6

-- Soldevilla et al. 1988: 58 Canary Islands

-- SCHULZ 1989: 191-

-- CUMMINGS 1982: 33-, GULF OF MEXICO

-- SUAREZ, F. + GASCA 1989a: 198, YUCATAN CHANNEL

-- COPLEY ET AL. 1989: 12-, NW ATLANTIC

-- SUÁREZ, F. ET AL. 1990: 126-, W. GULF OF MEXICO

-- REID 1990g: 185

-- OHTSUKA + MITSUZUKI 1990: 97

-- SUAREZ M. 1992: 135-, GULF OF MEXICO

-- SUAREZ + GASCA 1991: 596-, GULF OF MEXICO

Euchirella messinensis

card 7

-- Ferrari 1993b: 767, Tab. 2

-- VYSHKVA RTZ EVA 1994: 119

-- VAUPEL KLEIN 1989: 145, 156, 164

-- ROSE 1927: 145, OFF ALGERIA

-- ROSE 1934: 77, " "

Euchirella messinensis messinensis (Claus, 1863)

---, von Vaupel Klein, 1982b, passim

EUCHIRELLA MESSINENSIS INDICA (VERVOORT, 1949)

- , TANAKA & OMORI, 1969: 48-51 FIG. 6 F-M
- , TANAKA & OMORI, 1969: 158, 157 SYN: E. INDICA VERVOORT
- , VAUPEL-KLEIN, 1972: 500, 501, 505, 506 Pl. 1, 2, 5d (SEM)
- , VAUPEL-KLEIN, 1980: 152
- Vaupel Klein, 1984: part 2, 501-passim, tbl. 1-2
pl. 1a-d, pl. 2a-d, pl. 5d
part. 7: 35- , fig. 14c, l, 16w

Euchirella orientalis Sewell

- _____ Sewell 1929, p. 115, fig. 44, (includes E. pulchra of Sewell 1913)
- —, SEWELL, 1947, P. 76. FIG. 15, B-N. N. ARABIAN SEA.
- Tanaka & Omori, 1969, pp. 52-54, fig. 7 a-i
- ~~BRONKHORST~~ VAUPEL-KLEIN, F.L.D., 1972, p. 501-511.
- Tanaka & Omori, ¹⁹⁶⁹ p 155, 157.
- , VAUPEL-KLEIN, 1980: 152
- , VAUPEL-KLEIN, 1972: 502, 505, 506, FIG. 4a, b
- Vaupel-Klein, 1984: part 2: passim, 501, +tbl. 1, 2.
Fig. 4a, b. part. 7: 49-50

Euchirella paulinae Vaupel Klein

- , Vaupel Klein, 1980: p. 132, figs 1-9, plates 1-2 (SEM)
- , Vaupel Klein, 1982, p. 95
- Vaupel Klein, 1984: Part 1: 9
- Vaupel Klein, 1984: part 3: 132 - 156, figs 1-9,
part. 7: 41
pls 1-2.

Netastacidae - Calanoida
Euchirella plumosa Brady, ♀

— — Brady, 1918, p. 20: pl. 2. figs. 14-19.

E. rostromagna; Verwoort, 1957, p. 63-64.

Habitat. Antarctic Ocean.

Actideidae - Calanoida.

Euchirella propria Esterly, ♂.
Length 5.6 mm.

--- Esterly, 1911^{1/2}, p. 321: pl. 27, f. 14, 30:
pl. 30, f. 67, 83: pl. 31, f. 85

---, BRODSKY, 1950, P. 178, FIG. 95, USSR

--, PARK, 1976: 101

--, (= E. TRUNCATA) PARK, 1978: 147

Habitat. California Coast.

Euchirella pseudopulchra Park

- , Park, 1976a: 208-212, fig.1
- , Park, 1976b: ~~201~~ 101
- , Vaupel Klein, 1980: 153
- , Gardner & Szabo, 1982, p.26, 238-239, fig. 14.6.3
- Vaupel-Klein, 1984: part 7, 41-43,
fig. 4f, 6i, 7r, 10c, 13d
- VAUPEL KLEIN 1989: 162, 169

Euchirella pseudotruncata Park

--, Park, 1975, p. 291, figs 1-2

--, Vaupel Klein, 1980: 153

--, PARK, 1976^b: 101, 103-107, 115-116, 120-121, FIG 16

- Vaupel-Klein, 1984: part 7: 43, fig. 7b, 9g
14i, 15a, d.

Helidae - Calanoida.
Euchirella pulchra (Lubbock), ♀.
Length 4.4 mm.

Undina — Lubbock, 1856, p. 26: pl. 4, f. 5-8: pl. 7, f. 6, 8.
Euchirella Esterly, 1912, p. 281 ff.: p. 309.
— — Giesbrecht, 1892, p. 233, 244: pl. 15, f. 22,
23: pl. 36, f. 13, 27: 1888, p. 336.

Habitat. California Coast.

— Thompson, 1900: 278

- — Giesbrecht & Schmeil, 1898, p. 36. fig. 8-11
Calanus latus ♀ Lubbock, 1856, p. 15: pl. 2, f. 12: pl. 11,
Euchaeta pulchra ♂ Brady, 1883, p. 63: pl. 14, f. 7: pl. 20,
Euchirella — Esterly, 1905, p. 153: text-fig. 20, 21 } fig. 15, 17, 19
— — A. Scott, 1909, p. 56.
— — v. Breemen, 1908, p. 47: text-fig. 53.
— — I. C. Thompson, 1903, p. 17.
— — Sars, 1925, p. 69: pl. 20, figs. 5-7.
— — Wilson, 1932, p. 58: fig. 37. 1942, p. 186
— —, BRODSKY, 1950, p. 175, FIG. 90, USSR.
— —, SEWELL, 1947, p. 80, FIG. 16, A-E.
— —, VERVOORT, 1949, p. 20, fig. 9 D. & H. CELEBES SEA WATERS.
— —, Grice, 1962. p. 194. pl. 10, fig 1-4

Euchirella pulchra (Lubbock) 2

- --, Tanaka & Omori, 1969, pp. 55-56, fig. 8 a-f
- --; **Park, 1970, p. 475**
- , Fulton, 1968, p. 37, fig. 11
- , **Cushing, 1951, p. 178**
- , Bowman, 1971, p. 6 -
- , **Morris, 1970, p. 2300.**
- , Roe, 1972a, pp. 294-
- , Roe, 1972b, pp. 322, 337, 339-340.
- , ~~Brauner~~ ^{VAUFEL-KELSO} F.U.D., 1972, pp. 501-511.
- Tanaka, Omori, ¹⁹⁶⁹ pp. 155, 158
- **Park, 1975, p. 297**

-, Furuhashi, 1961: 106

-, VAUPEL-KLEIN, 1980: 152, 153

-, PARK, 1976^a: 208, 210-212, FIG. 2

-, PARK, 1976^b: 101, 103-107, 116-117, 120-121, FIG. 7

-, VAUPEL-KLEIN, 1970: 500, 502, 505, 506, PL. 3 (SEM)

-, TANAKA, 1957^d: 178-180 ♀♂, 181 FIG. 45

-, WHEELER, 1970: TAB. 4

-, BINET & DESSIER, 1977²: 427, 452

-, FASHAM, ET AL., 1974: TAB. 1

-, JAWED, 1973: 68, 80, 88-90, 94, 96, 102-104

-, OWRE & FOYO, 1964^a: 343

- Vaupel-Klein, 1984: Part 7: 43-44

EUCHIRELLA PULCHRA (Lubbock, 1856) CARD 3

-- SHIH ET AL. 1971: 143, CANADA-PACIFIC

-- OWRE & FOYO, 1972: 493; TAB. 3

-- OWRE & FOYO, 1964b: 363

-- CALEF & GRICE (UNPUBL.) IN KETCHUM & RUTHER
1966 (UNPUBL.): APPENDIX

-- EVANS, 1961: 196

-- FIGUEIRA 1971: 143.

-- Gardner & Szabo, 1982, p. 26, 236-237, fig. 14.6.2

-- von Vaupel Klein, 1982, passim

-- Marques, 1953, p. 98-99

- Chen, Zhang, Chen, 19--: 65
- Vaupel-Klein, 1984: part 2, 501-passim, tbl. 1-2
pl. 3a-d.
part 7 passim, fig. 6j, 11c, 13e, 16j,k,v,
pl. 1, f.

- SANDER + MOORE 1978: 232.
- Binet & Dessier, 1968: 7, OFF MADAGASCAR
- Bjornberg, 1981: 632, fig. 210 #13
- Dawson & Knatz, 1980: 63, pl. 50, fig. a-i
- Devey & Brooks, 1977: 263
- PULCHURA, CUMMINGS 1982: 33, GULF OF
MEXICO

Euchirella pulchra (Lubbock, 1856)

card 4

-- Suárez, E., ^{ET AL.} 1990:126-, w. Gulf of Mexico

-- SUAREZ M. 1992: 135; GULF OF MEXICO

-- SUAREZ + GASCA 1991: 596; GULF OF MEXICO

-- VAUPEL KLEIN 1989: 162-163, 168, 169

Euchirella rostramagna - see rostromagna

Heudeidae - Calanoida
Euchirella rostrata (Claus), ♂, ♀.
Length 3.10 mm.

pl. 23, f. 11-14

Undina — Claus, 1866, p. 11; pl. 1, fig. 2.

Euchaeta hesssei Brady, 1883, p. 63; pl. 20, f. 1-13

Euchirella rostrata Giesbrecht, 1892, p. 232; pl. 15.

— — Giesbrecht & Schmeil, 1898, p. 36
f. 4-11, 27-28

Habitat: N. & S. Atlantic: Pacific.

- — Cleve, 1900, b, p. 4 : pl. 2, figs. 1-12.
— — Wolfenden, 1902, p. 367 : Norman, 1903, p. 137.
— — I. C. Thompson, 1903, p. 18 : Wolfenden, 1904, p. 129.
— — Sans, 1905, p. 4 : Th. Scott, 1905, p. 223.
— — Esterly, 1905, p. 152 : Farran, 1905, p. 36.
— — Pearson, 1906, p. 15 : Farran, 1908, p. 38.
— — v. Breemen, 1908, p. 47 : fig. 52.
— — Wolfenden, 1911, p. 235 : Esterly, 1912, p. 311.
Not — — Thompson & Scott, 1903, p. 244.
Not — — (var. magna) Wolfenden, 1905, p. 18.
— — With, 1915, p. 113 : pl. ¹¹⁷ 4, f. 1, a-h : text fig. 29, a-k.
— — Cleve, 1900, a, p. 141.

Euchirella rostrata

Euchaeta hessel, var. *similis*, nov. var. T. Scott,
1894, p. 58: pl. 6, figs. 24-25.

— — Cleve, 1900, p. 141 [pl. 30, f. 66: pl. 32, f. 116]

E. rostrata Esterly, 1911 $\frac{1}{2}$, p. 321: pl. 29, f. 52

— — Esterly, 1912, p. 281 ff.

— — Esterly, 1905, p. 152: text-fig. 19, a-b.

— — Farran, 1929, p. 234.

— — Sears, 1925, p. 69: pl. 20, figs. 8-15

— — Rose, 1929, p. 20.

— — Wilson, 1932, p. 55: fig. 35

— — Owre, 1962

Cleve, 1900, p. 65.

Wilson 1942, p. 186

E. bella, Sewell 1929, p. 109

E. rostrata, Brodsky, 1950, p. 173-174; fig. 88.

— — — — — Verwoort, 1952, p. 2-5, fig. ~~244~~, 244

— — — — — JESPERSEN, 1934, P. 64, W. GREENLAND WATERS: 1940, p. 23. Iceland.

— — — — — Conover, 1960. p. 405

— — — — — Honjo et al, 1957. pp. 120-128

— — — — — Omori, 1965. pp. 18-27

— — — — — Park, 1968, pp. 527-572.

— — — — — Tanaka & Omori, 1969, p. 56,

— — — — —; Park, 1970, p. ~~472~~ 475

— — — — —, Bradford, 1970. p. 347

Euchirella rostrata (Claus, 1866)

card 3

-- --, Hure & Scotto di Carlo, 1968, p. 48.

--, Bradford, 1972, p. 38, fig. 7.8-7.10

--, Paiva, 1971, p. 21

--, Seno, Komaki & Takeda, 1963, tab. 2

--, Fulton, 1968, p. 37, fig. 21

--, Wolfenden, 1905, p. 18

--, Bowman, 1971, p. 6 -

--, Morris, 1970, p. 2300.

--, ~~Bruggemann~~, F.L.D., 1972 pp. 501-511.
VAUPEL-KLEIN

-- Tanaka, & Amori, 1969, pp 155, 158

--, Bjornberg, 1963: 9, 37, tabs 8+10, 121, 124

--, TANAKA, 1957d: 177-178, 185, 187 ♀ FIG. 44

--, WHEELER, 1970: TAB. 4

--, ITOH, 1970: TAB. 2

--, OWRE & FOYO, 1964a: 354

--, CALEF & GRICE (UNPUBL.) IN KETCHUM & RUTHER
1966 (UNPUBL.): APPENDIX

- Tanaka, 1965a: 21, fig. 7a-d

- Bjornberg, 1981: 632, fig. 210^{#14}

- Deevey & Brooks, 1977: 263

- DeDecker, 1984: 316

Euchirella rostrata (Claus, 1866)

4
#3

- --; Vervoort, 1957, p. 63.
- , Bradford, 1970, p. 354, fig. 17
- , Vives, 1972, pp. 210, 238.
- , Furuhashi, 1966: 305, 312
- , Furuhashi, 1961: 76, 77, 78, 100, 106
- , VAUPEL KLEIN, 1980: 153
- , PARK, 1976 b : 101, 103-107, 117-118, ¹¹⁹120-121, FIG. 8
- , PARK, 1978: 94, 147-149, 153, FIG. 29 ♀
- , DEEVEY, 1971: TAB. 3
- , BINET & DESSIER, 1971: 457, 458
- , BEAUDOUIN, 1973: 125, 137-138; TAB. 1

- -, FIGUEIRA 1971: 143.
- -, Chiba & Hirakawa 1972: Tab. 2.
- -, Bradford & Jillett, 1980, pp. 39, 40, fig. none.
- -, Gardner & Szabo, 1982, p. 26, 240-241, fig. 14.6.4
- Ramirez, 1969: 59-61, fig. 66, 67, 69, 70, 72, 74
- Vaupel-Klein, 1984: part 2, 501, passim, tbl. 1-2
- ~~Van~~ part 7: 44, fig. 5c, f, h, 6b, 9a, i
10a, 11e, k, 12b, 13k, 16p, 18c
- MASSUTI & NAVARRO 1950: 27.
- GRICE & HART 1962a: 295, w. NORTH ATLANTIC
- GRICE & HART 1962b: TABLE 3

Euchirella rostrata (Claus, 1866)

card 5

-- Mazza 1965:297

-- MAUCLINE 1988: 790

-- KIORTSIS ET AL. 1969: 37-, AEGEAN

-- LE BORGNE 1986: 140-

-- Nakamura et al. 1982: 28-30 fig 2 tab 1 Antarctic (Indian)

-- Marin & Antezana 1985: 963 tab 1 Chile

-- Soldevilla, et al 1988: 58 Canary Islands

-- CUMMINGS 1982: 34-, GULF OF MEXICO

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

-- COPLEY ET AL. 1989: 12-, NW ATLANTIC

Euchirella rostrata (Claus, 1866)

card 6

-- Shih et al. 1971:32, Canada - Atlantic; 143, PACIFIC

-- LAKKIS 1984: 289-, E. MEDITERRANEAN

-- ALVARIÑO 1989: 69-, OFF S. CALIFORNIA

-- REID 1990g: 185

-- SUÁREZ M. 1992: 136-, GULF OF MEXICO

-- SUAREZ + GASCA 1991: 596-, GULF OF MEXICO

-- RAZOULS 1994: 78, 10

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

EUCHIRELLA ROSTRATA (CLAUS, 1866)

CARD 7

-- ROSE 1927: 145, OFF ALGERIA

-- ROSE 1934: 54-81, " "

Euchirella rostromagna Wolfenden, ♀, ♂.

Length 6 mm ♀,

- Wolfenden, 1905: 18
- — Wolfenden, 1911, p. 235: no figs.
- — Farran, 1929, p. 236: text-fig. 8, a-g, ♂.
- —, VERVOORT, 1951, P. 82, Figs. 45-50.
- —; Vervoort, 1957, p. 63-64.
- —, Seno, Komaki & Takeda, 1963, tab. 2
- —, ~~BRUGGE~~ ~~REYN~~ ~~F. L. D.~~, 1972, pp. 501-511.

Habitat. Antarctic.

- —, VAUPEL-KLEIN, 1980: 153
- —, VAUPEL-KLEIN, 1972: 502, 505, FIG. 56
- Vaupel Klein, 1984: part 2, 501, passim, tbl. 1-2

-, PARK, 1979: 94, 147, 151-155 ♀ ♂; FIGS. 31-34; 540.

E. LATIROSTRIS

-, Bradford & Jillett, 1980, p 40, 42, 43, fig. 26.

- Vaupel-Klein, 1984: part 7: 44-46
fig. 14a, 25a, pl. 1b.

- Bjornberg, 1981: 632, fig. 210 # 15

- ZMIJEWSKA 1983: 33-45, PRYDZ BAY, ANTARCTICA

- MONTÚ & CORDEIRO 1986: 88-, ANTARCTIC

EUCHIRIELLA -, MARIN 1987: 109-, SCOTIA SEA

EUCHIRIELLA -, MARIN 1986: 62-, SCOTIA SEA

Euchirella rostromagna Wolfenden, 1905

card 2

E. rostromagna, P. Ward 1989:144-, S. Georgia, Antarctic

-- OHMAN ET AL. 1989:1322 -

-- RAZOULS 1994: 78-, Pl. 32, ANTARCTIC; 10

-- VYSHKVARTZEVA 1994: 119

Actideidae - Calanoida
Euchirella similis Wolfenden, ♀ Length 4mm.

— — Wolfenden, 1911, p. 238: pl. 28, figs. 1-2:
text-fig. 23, a-d.

-- --; Vervoort, 1957, p. 64.

- -, VAUPEL KLEIN, 1980: 152

--, PARK, 1978: 95, 147, 155-158; FIG. 35-36 ♀

Habitat. Atlantic Ocean 1500-3000m.

2

Euchirella similis Wolfenden, 1911

- , Bradford & Jillett, 1980, p. 43, fig. 27
- , Grice & Hulsemann, 1968: tab 2
- Vaupel-Klein, 1984: part 7: 46., fig. 5 d, 7
8 f, 14 j, 15 c, 16 c, pl. 1 e, pl. 2 f-g
- RAZOUKS 1994: 10

Helidaeae - Calanoida.

Euchirella simplex Esterly, ♀.
Length 6.36 mm.

— — Esterly, 1911^{1/2}, p. 320: pl. 26, f. 10: pl.
29, f. 50, 62.

— —, BRODSKY, 1950, p. 177, FIG. 94, USSR

--, PARK, 1978: 149

Habitat. California Coast.

Euchirella speciosa Grice and Hulsemann

- Grice and Hulsemann, 1968
- , Vaupel Klein, 1980: 152
- , PARK, 1976: 101
- , PARK, 1978: 147
- , Bradford & Jillett, 1980, p. 43, fig. 28.
- , Grice & Hulsemann, 1968: 325-327, fig. 14-19
- Vaupel-Klein, 1984: 46-47.
part. 7: passim, fig. 8l, o, 9b, 14b, 15d
18a, j, l.

Aetideidae - Calanoida

Euchirella spinosa Wolfenden, ♀.
Length 6.2 mm.

— — Wolfenden, 1911, p. 235: pl. 27, figs. 3-7
n. sp., Wolfenden, 1905, p. 19-20, pl. 6

Habitat. Atlantic

Euchirella splendens Vervoort, 1963

- ; Park, 1975, p. 291, 296-7 fig 4.
---; Park, 1970, p. 475
---, ~~BRONKHORST~~ VAUPEL-KLEIN, F.L.D., 1972, pp. 501-511.
---, VAUPEL KLEIN, 1980: 152
---, PARK, 1976^b: 101, 103-107, 118-119, 120, 121, FIG. 9
---, VAUPEL-KLEIN, 1972: 502, 505, FIG. 4d
---, PARK, 1978: 147, 157
---, GRICE, 1969: 453; FIGS. 35-48
---, BINET + DESSIER, 1971: 427, 453
---, OWRE + FOYO, 1973: TAB. 3

- CALEF & GRICE (UNPUBL.) IN KETCHUM & RYDER,
1966 (UNPUBL.): 36; APPENDIX
- Vaupel-Klein, 1984: part 2, 501, passim, tbl. 1-2
part. 7: 47, Fig. 6K, 10b. Fig. 1d.
- Soldevilla, et al 1988: 58 Canary Islands
- SUÁREZ, E. ET AL. 1990: 126-, W. GULF OF MEXICO
- SUÁREZ, E. 1992: 136-, GULF OF MEXICO
- SUAREZ & GASCA 1991: 596-, GULF OF MEXICO

Euchirella tanseii Omori

-- -- Omori, 1965. pp. 60-65, fig. 1-18

-- , VAUPEL KLEIN, 1980: 153

-- , PARK, 1976^b: 101

-- , PARK, 1978: 147

Euchirella trigada Tanaka 1957

-- TANAKA, 1957d: 184-186 ♀ FIG. 49

Syn. E. formosa Vervoort 1949

Morris, 1970, p. 2304

Actideidae - Calanoida.

Euchirella truncata Esterly, ♀, ①
Length 6.6 mm

— — Esterly, 1911 $\frac{1}{2}$, p. 322: pl. 26, f. 5: pl. 28,
f. 35: pl. 29, f. 63: pl. 30, f. 71: pl. 31, f. 104

— —, BRODSKY, 1950, P. 178, FIG. 96, USSR

— —, SEWELL, 1947, P. 83, FIG. 17, A-E. S. ARABIAN SEA.

— — — Park, 1968, pp. 527-572.

Habitat. California Coast.

— —, TANAKA & OMORI, 1969 pp. 57-59 fig. 9 a-g

--Tanaka & Omori, 1969, pp. 155, 159

--Bradford & Sillett, 1980, p. 43, fig. 29'

- , Roe, 1972a, pp. 294-
- , Roe, 1972b, pp. 340.
- , ~~BRONGETSMA~~ ^{VAUPEL-KLEIN} F.L.D., 1972, pp. 501-571.
- Park, 1975, pp. 291, 294-6, fig. 3.
- VAUPEL-KLEIN, 1980: 153
- , VAUPEL-KLEIN, 1972: 502, 505, FIG. 5d, PL. 5b
- , PARK, 1978: 147; 840. E. PROPRIA
- , GRICE, 1969: 454
- , Grice & Hulsemann, 1968: tbl. 2
- Vaupel-Klein, 1984: part 3, 501, passim, tbl. 1-2, pl. 5b.
part. 7: 47, fig. 5m, 6c, 7p, 11j, 16y.

EUCHIRELLA TRUNCATA ESTERLY, 1911

--, FERRARI, 1980: 543

— Deeney & Brooks, 1977: 263

-- MAUCHLINE 1988: 730

Aetideidae - Calanoida

Euchirella tumida Brady ♂♀.

— — Brady, 1918, p. 20: pl. 3, figs. 7-12.

--, (= SCOLECITHRIX DANAE) VERVOORT, 1965: 85-87

Habitat. Antarctic Ocean.

Euchirella unispina

Park.

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

--, Morris, 1970, p. 2300.

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-- Tanaka, & Omori, 1969, pp. 155, 159

-- Park, 1975, p. 297.

--, VAUPEL KLEIN, 1980: 153

--, PARK, 1976^o: 101

--, VAUPEL-KLEIN, 1972: 497, 502, 505, FIG. 5

--, PARK, 1978: 147

- Vaupel Klein, 1984: part 2, 501, passim, tbl. 1-2.
part. 7: 47, fig. 3e, 5i, 8e

Metidaeidae - Calanoidea.

Euchirella venusta Giesbrecht, ♀, 1892

— — Giesbrecht, 1888, p. 336.

— — Giesbrecht, 1892, p. 233: pl. 15, f. 19: pl. 36, 18.21

— — Cleve, 1904, p. 190.

— — Stebbing, 1910, p. 527.

— — ^{DAUPEL-KLEIN}~~BRONKHORST~~, F.L.D. 1972, pp. 501-512.

Habitat, So. Atlantic; Mediterranean.

Tropical Pacific.

— Tanaka, Omorei, 1969, pp. 155, 159.

- — Giesbrecht & Schmeil, 1848, p. 35.
- — Sars, 1905, a, p. 4, 1925, p. 68 (E. intermedia)
- — A. Scott, 1909, p. 57.
- — Farran, 1929, p. 237.
- — SEWELL, 1947, P. 85, FIG. 18, A-G.
- —, VERVOORT, 1949, P. 20, FIG. 10. CELEBES SEA AREA.
- --, Grice, 1962. p. 9, fig. 14-25
- --, Tanaka & Omori, 1969, pp. 59-61, fig. 10 a-i
- , Bradford, 1972, p. 38, fig. 7.11-7.12
- , Wolfenden, 1905, p. 18
- , Furuhashi, 1961: 106
- , VAUPEL KLEIN, 1980; 152, 153
- , PARK, 1976 b; 101

EUCHIRELLA VENUSTA

CARD 2

- VAUPEL-KLEIN, 1972: 502, 505, PL. 4d (SEM)
- TANAKA, 1957d: 182-183 ♀♂ FIG. 47
- OWRE + FOYO, 1964b: 363
- Bradford & Jillett, 1980, pp. 43, 44, fig. 30.
- von Vaupel Klein, 1982, passim
- Vaupel-Klein, 1984: part 2, 501, passim, tbl. 1-2.
pl. 4 d. ; part. 7: 47-48-49, fig.
7K, l, m, 13L
- SANDER + MOORE 1978: 232.

Euchirella venusta Giesbrecht, 1892

card 3

-- Youngbluth 1979: 22, Caribbean

-- CUMMINGS 1982: 34-, GULF OF MEXICO

-- SUÁREZ, E. ET AL. 1990: 126-, W. GULF OF MEXICO

-- REID 1990g: 185

-- SUÁREZ, E. 1992: 136-, GULF OF MEXICO

Aetideidae - Calanoida
Euchirella wolfendenii Farran, ♀.

— — Farran, 1908, p. 38: pl. 2, f. 18-19: pl. 4, f. 3.

A synonym of Chirudina pustulifera.
(Witt, 1915, p. 145)

--, (= PSEUDOCUIRELLA PUSTULIFERA), PARK, 1978: 158

Euchirella sp.

①

- sp., Tanaka, 1960. p. 38, pl. 15, fig. 105
- , Ostapenya & Shushkina, 1971, p. 195
- , SENO, ET AL., 1963: TAB. 2
- , JAWED, 1973: 22-26, 28, 29, 31, 33-35, 37, 39-41,
49-51, 55, 57, 60, 61, 63, 64, 89, 95, 98
- , Bjornberg, 1963: 123
- Sreekumaran, et al 1981: passim
- , Grice & Hulsemann, 1968: t. 2
- Vaupel-Klein, 1984: part 7: 49

Euchirella sp.

card 2

-- Jimenez-Perez & Lara-Lara 1988:126-, Gulf of California

Euchirella spp.

-- Tranter 1977: 598.

-- LE BORGNE 1986: 142 -