

Contents

Abstract 1

Introduction..... 1

Materials and methods 4

Taxonomic Part 12

List of Taxa 12

I. *ABAS* Ross & Sims (1980) 15

II. *ACTINOPTYCHUS* Ehrenberg (1843) 21

III. *AMPHORA* Ehrenberg ex Kützing (1844) 33

IV. *ANALUS* Ehrenberg (1844a) 37

V. *ANULOPLICATA* (Gleser) Gleser in Gleser et al. (1992) 41

VI. *ARACHNOIDISCUS* Deane ex Shadboldt (1852) 44

VII. *AULISCUS* Ehrenberg (1843) 49

VIII. *BIDDULPHIA* Gray (1821) 51

IX. *BRIGGERA* Ross & Sims (1985) 55

X. *BRIGHTWELLIA* Ralfs in Pritchard (1861)..... 60

XI. *CLAVICULA* Pantocsek (1886) 67

XII. *CORTINOCORNUS* Gleser (1984) 71

XIII. *COSCINODISCUS* Ehrenberg (1839a) 75

XIV. *CRASPEDODISCUS* Ehrenberg (1844b) 79

XV. *CRASPEDOPORUS* Greville (1863b) 85

XVI. *CYLINDROSPIRA* Mitlehner (1995) 87

XVII. *CYMATOSIRACEAE* Hasle, von Stosch & Syvertsen (1983) 88

XVIII. *DETONIA* Frenguelli (1949) 91

XIX. *DEXTRADONATOR* Ross in Ross & Sims (1980) 96

XX. *DISTEPHANOSIRA* Gleser in Gleser et al. (1992) 103

XXI. *DREPANOTHECA* Schrader ex Round et al. (1990) 109

XXII. *ENTOGONIA* Greville (1863c) 112

XXIII. *ENTOGONIOPSIS* Sims, Strelnikova, Witkowski & Williams in Witkowski
et al. (2015) 112

XXIV. *EUNOTOGRAMMA* Weisse (1854) 123

XXV. *EUODIELLA* Sims (2000) 129

XXVI. <i>EUROSSIA</i> Sims in Mahood et al. (1993)	133
XXVII. <i>FENNERIA</i> Witkowski (2018)	135
XXVIII. <i>GRAMMATOPHORA</i> Ehrenberg (1840)	149
XXIX. <i>GRUNOWIELLA</i> Van Heurck (1896)	150
XXX. <i>HEMIAULUS</i> Heiberg (1863)	152
XXXI. <i>JOUSEA</i> Gleser (1967)	199
XXXII. <i>KTENODISCUS</i> Pantocsek (1889)	201
XXXIII. <i>LIRADISCUS</i> Greville (1865a)	207
XXXIV. <i>MASTOGLOIA</i> Thwaites in Smith (1856).....	213
XXXV. <i>MEDLINIA</i> Sims (1998)	219
XXXVI. <i>PEPONIA</i> Greville (1863b)	235
XXXVII. <i>PLAGIOGRAMMA</i> Greville (1859)	239
XXXVIII. <i>PORPEIA</i> Bailey ex Ralfs in Pritchard (1861)	243
XXXIX. <i>PROBOSCIA</i> Sundström (1986)	247
XL. <i>PSAMMODISCUS</i> Round & Mann (1986).....	254
XLI. <i>PSEUDOPODOSIRA</i> Jousé in Proschkina-Lavrenko (1949).....	258
XLII. <i>PYRGUPYXIS</i> Hendey (1969)	269
XLIII. <i>QUADROCISTELLA</i> Suto (2006)	276
XLIV. <i>RHAPHONEIS</i> Ehrenberg (1844a)	281
XLV. <i>RHIZOSOLENIA</i> Brightwell (1858)	285
XLVI. <i>RUTILARIA</i> Greville (1863c)	287
XLVII. <i>SEXTIPUTEUS</i> Ross & Sims (2000).....	292
XLVIII. <i>SHESHUKOVIA</i> Gleser (1975)	293
XLIX. <i>SOLIUM</i> Heiberg (1863)	297
L. <i>STICTODISCUS</i> Greville (1861a)	299
LI. <i>STRANGULONEMA</i> Greville (1865c)	303
LII. <i>THAUMATONEMA</i> Greville (1863b)	307
LIII. <i>TOXARIUM</i> Bailey (1854)	309
LIV. <i>TRICERATIUM</i> Ehrenberg (1839b)	311
LV. <i>TRINACRIA</i> Heiberg (1863)	329
LVI. <i>TROCHOSIRA</i> Kitton (1870)	347
LVII. <i>TROSSULUS</i> Ross & Sims (2002)	351
LVIII. <i>VALLODISCUS</i> Suto (2005)	353
LIX. <i>XANTHIOISTHMUS</i> Suto (2006)	355
LX. <i>XANTHIOPYXIS</i> Ehrenberg (1844b)	357

Discussion	360
Acknowledgements	362
References	363