

Catalogue of Mesozoic radiolarian genera.

Part 2: Jurassic-Cretaceous

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ABSTRACT

The catalogue of Mesozoic radiolarian genera is a revision of all described genera with re-illustration of their type species. This project was organized under the auspices of the International Association of Radiolarian Paleontologists (InterRad), and was carried out by the Mesozoic Working Group. This is the second of two contributions, this one devoted to the Jurassic-Cretaceous period. It contains 581 genera with re-illustration of their type species. This part shares 30 genera in common with the Triassic catalogue, most of which arose in the Carnian, Norian and Rhaetian. The sharp difference manifested between the Triassic fauna and the Jurassic-Cretaceous fauna is so evident that it justifies two independent catalogues. A comparable division between the Jurassic and Cretaceous could not be justified however, because of the similarity of the fauna, and by the greater number of genera crossing the Jurassic-Cretaceous boundary which is three times that for the Triassic-Jurassic boundary. A distinct characteristic of Jurassic-Cretaceous genera is the high number of *nomina dubia* (up to 131), contrary to the low number in the Triassic interval. This reflects, in part, the influence of Haeckelian taxonomy in earlier research on Jurassic-Cretaceous faunas prior to the application of SEM techniques. The Mesozoic Working Group has carefully reviewed and re-examined the taxonomy of all available genera, their family assignment and stratigraphic ranges. Following careful comparisons, 91 genera were declared as synonyms. The review has noted 26 homonyms which were duly notified to their corresponding authors, and were corrected previous to the publication of this catalogue. In spite of this effort, unfortunately nine homonyms still remain. Two invalid nominal genera and two *nomina nuda* are also reported. The systematic revisions have validated 341 genera for the Jurassic-Cretaceous interval. At the end of this catalogue 24 additional photographs are presented as support for those genera having a poor original illustration of the type species.

KEY WORDS

Radiolaria,
Jurassic,
Cretaceous,
systematic,
type species,
biostratigraphy.

RÉSUMÉ

Catalogue des genres de radiolaires mésozoïques. Partie 2: Jurassique-Crétacé.

Le catalogue des genres de radiolaires du Mésozoïque résulte d'une révision de tous les genres décrits et d'une illustration de leur espèce type. Ce travail a été mené sous les auspices de l'association internationale des radiolaristes (InterRad), et effectué par son Groupe de Travail Mésozoïque. Cet article, qui représente la dernière de deux parties, concerne le Jurassique-Crétacé et contient 581 genres. Trente genres sont communs avec le Trias, la plupart de ces genres apparaissent du Carnien au Rhétien. La différence entre les faunes du Trias et celles du Jurassique-Crétacé est si grande qu'elle justifie la présentation de deux catalogues différents alors qu'une subdivision entre le Jurassique et le Crétacé serait moins justifiée tant par des similitudes de composition faunique que par le nombre de genres qui franchissent cette limite: trois fois plus élevé que pour celle qui sépare le Trias du Jurassique. Le grand nombre de *nomina dubia* (jusque 131) caractérise les genres du Jurassique-Crétacé, contrairement à leur nombre très faible au Trias. Ce nombre élevé résulte de la classification purement géométrique établie par Haeckel, et l'ensemble des travaux qui avaient commencé bien avant l'usage routinier du microscope électronique à balayage. Le Groupe de Travail Mésozoïque a méticuleusement envisagé et réexaminé tous les genres disponibles, leur assignation familiale et leur répartition stratigraphique. Après des comparaisons approfondies, 91 genres ont été déclarés synonymes. La révision a aussi détecté 26 cas d'homonymie qui ont été dûment signalés à leur auteur.

MOTS CLÉS
Radiolaires,
Jurassique,
Crétacé,
systématique,
espèce type,
biostratigraphie.

correspondant et ont été corrigés préalablement à la publication du présent Atlas. Il n'en reste pas moins que neuf cas d'homonymie subsistent. Enfin deux noms de genre invalides et deux *nomina nuda* ont aussi été mentionnés. La révision systématique a validé 341 genres pour le Jurassique-Crétacé. À la fin du catalogue nous présentons 24 photographies additionnelles qui illustrent des genres dont la photographie originelle de l'espèce type est de qualité insuffisante.

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INDEX OF JURASSIC-CRETACEOUS GENERA SORTED BY FAMILIES

The number preceding the genus indicates the position on plates; when a support figures is available this is marked in italics. Homonyms (hom.), synonyms (syn.), invalid taxa (inv.) and *nomina dubia* (n.d.) are indicated in brackets. Families are provided with reference to original publication.

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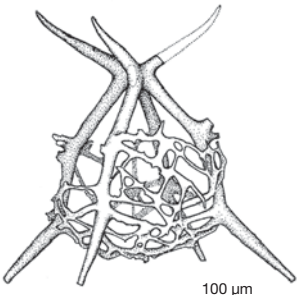
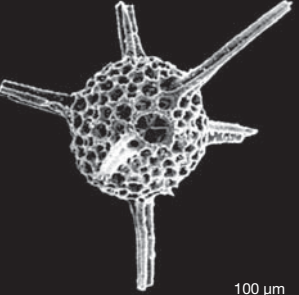
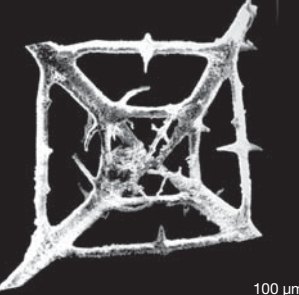
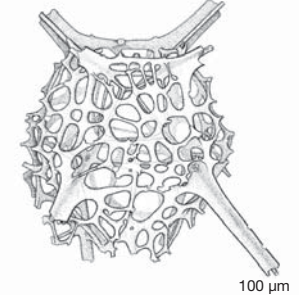
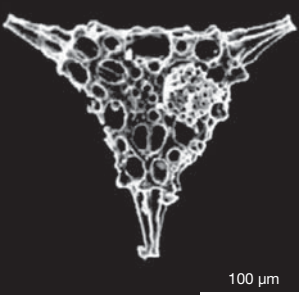
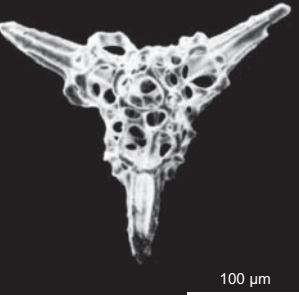
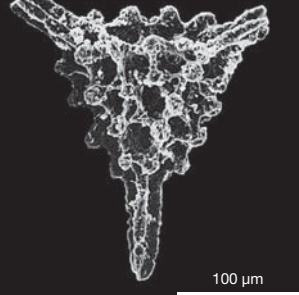
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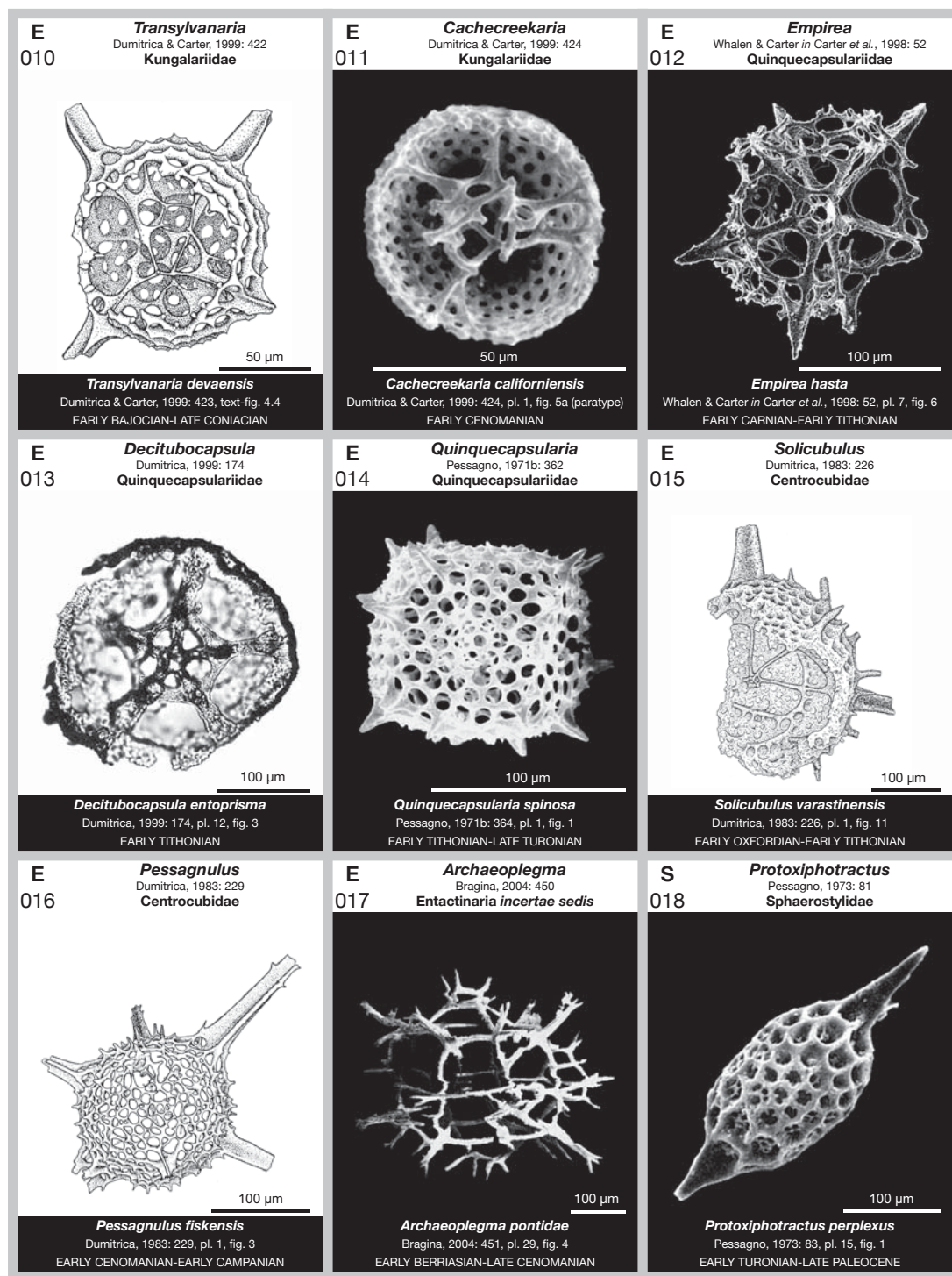
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 271 *Plicatoracapsa*
 272 *Helicryptocapsa*
 273 *Homeoarchicorys*
- WILLIRIEDELLIDAE Dumitrica, 1970: 68
 274 *Zhamoidellum*
 275 *Complexapora* (syn.)
 276 *Hemicryptocapsa*
 277 *Praezhamoidellum* (syn.)
 278 *Williriedellum*
 279 *Quarkus*
 280 *Cryptamphorella*
 281 *Holocryptocapsa*
 282 *Stylocryptocapsa* (syn.)
 283 *Holocryptocanium*
 284, 602 .. *Trisyringium*
 285, 601 .. *Trimulus*
 286 *Kozurium*
 287 *Excentropyllomma*
 288 *Immersothorax*
- DIACANTHOCAPSIDAE O'Dogherty, 1994: 216
 289 *Theocapsomella*
 290 *Diacanthocapsa*
 291 *Novodiacanthocapsa* (syn.)
 292 *Eastonerius* (syn.)

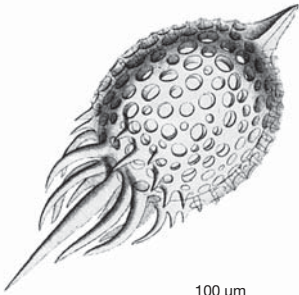
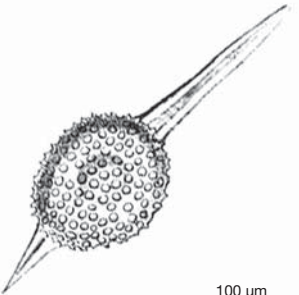
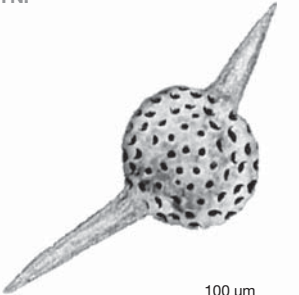
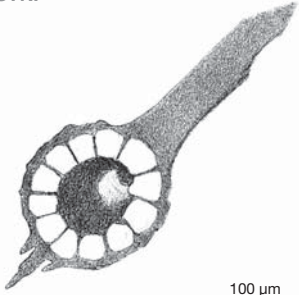
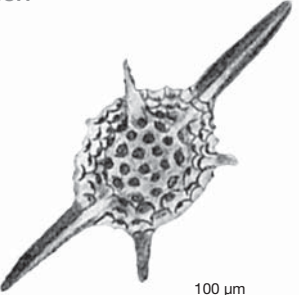
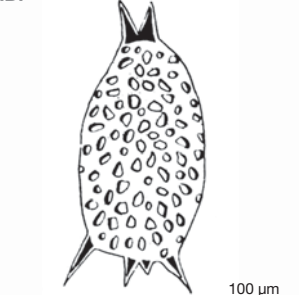
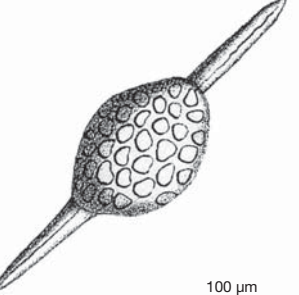
- 293 *Annikaella*
 294 *Myllocercion*
 295 *Schadelfusslerus* (syn.)
 296 *Kuppelella*
 297 *Calyplocoryphe*
 298 *Halicapsa* (n.d.)
 JAPONOCAPSINAE Kozur, 1984: 54
 299 *Japonocapsa*
 300 *Striatojaponocapsa*
 301 *Tricapsula* (syn.)
 302 *Yaocapsa*
 CANNOBOTRYIDAE Haeckel, 1881: 446
 303 *Ectonocorys*
 304, 581 .. *Botryometra*
 305 *Acidnomelos*
 306 *Eribotrys*
 307 *Botryocylinder*
 308 *Cornutovum*
 309 ? *Solenotryma*
 ARTOSTROBIIDAE Riedel, 1967: 149
 310, 586 .. *Dictyoprora*
 311, 598 .. *Siphocampe*
 312 *Rhopalosyringium*
 313 *Pseudotheocampe*
 314 *Theocampe* (n.d.)
 EUCYRTIDIELLIDAE Takemura, 1986: 66
 315 *Raoulitis*
 316 *Thetis* (hom.)
 317 *Thetisolala*
 318 *Natoba*
 319 *Eucyrtidiellum*
 320 *Monosera* (syn.)
 TERTONIIDAE Dumitrica & Zügel, 2003: 48
 321 *Toritenum*
 322 *Tertonium*
 BAGOTIDAE Pessagno & Whalen, 1982: 117
 323 *Droltus*
 324 *Paradroltus*
 325 *Bagotum*
 326 *Broctus*
 327 *Canutus* (hom.)
 328 *Noritus*
 329 ? *Trexus*
 HSUIDAE Pessagno & Whalen, 1982: 130
 330 *Parahsuum*
 331 *Lupherium* (syn.)
 332 *Drulanta* (syn.)
 333 *Fantus* (syn.)
 334 *Hsuum*
 335 *Ogivus* (syn.)
 336 *Transhsuum*
 337 *Crubus*
 338 *Pseudohsuum*
 339 *Linaresia* (hom.)
 340 *Sella*
 341 *Semihsuum*
 ARCHAEOICTYOMITRIDAE Pessagno, 1976: 49
 342 *Archaeodictyomitra*
 343 *Combusta* (syn.)
 344 *Belleza*
 345 *Thanarla*
 346 *Mictyoditra*
 347 *Mita* (hom.)
 348 *Dictyomitra* (syn.)
 349 *Dictyomitroma*
 350 *Zifondium* (syn.)
 351 *Diplostrobos* (syn.)
 UNUMIDAE Kozur, 1984: 61
 352 *Helvetocapsa*
 353 *Unuma*
 354 *Spinunuma* (syn.)
 355 *Protunuma*
 356 *Turbocapsula*
 357, 591 .. *Guttacapsa*
 CANOPTIDAE Pessagno *in* Pessagno *et al.*, 1979: 180
 358 *Canoptum*
 359 *Paracanoptum* (syn.)
 360 *Neowrangellium* (syn.)
 361 *Relanus* (syn.)
 362 *Pseudocanoptum* (syn.)
 363 *Laxtorum*
 364 *Cinguloturris*
 SPONGOCAPSULIDAE Pessagno, 1977a: 87
 365 ? *Maudia* (hom.)
 366 *Obesacapsula*
 367 *Grandicapsula* (syn.)
 368 *Spongocapsula*
 369 *Torculum* (syn.)
 370 *Spongostichomitra*
 371 *Tubilustrium* (hom.)
 372 *Tubilustrionella*
 373 *Anachoreta* (hom.)
 374 *Pentaspangoreta*
 375 *Schaumellus*
 OBELISCOITIDAE O'Dogherty, 1994: 189
 376 *Olanda*
 377 *Obeliscoites*
 378 *Birkenmajeria* (n.d.)
 PSEUDODICTYOMITRIDAE Pessagno, 1977b: 49
 379, 594 .. *Loopus*
 380 *Candissa* (syn.)
 381 *Pseudodictyomitra*
 382 *Shana* (syn., hom.)
 PARVICINGULIDAE Pessagno, 1977a: 82
 383 *Nitrader*
 384 *Atalanta* (hom.)
 385 *Atalantria*
 386 *Wrangellium*
 387 *Pseudoristola*
 388 *Triversus* (hom.)
 389 *Praeparvicingula*
 390 *Praecaneta* (syn.)

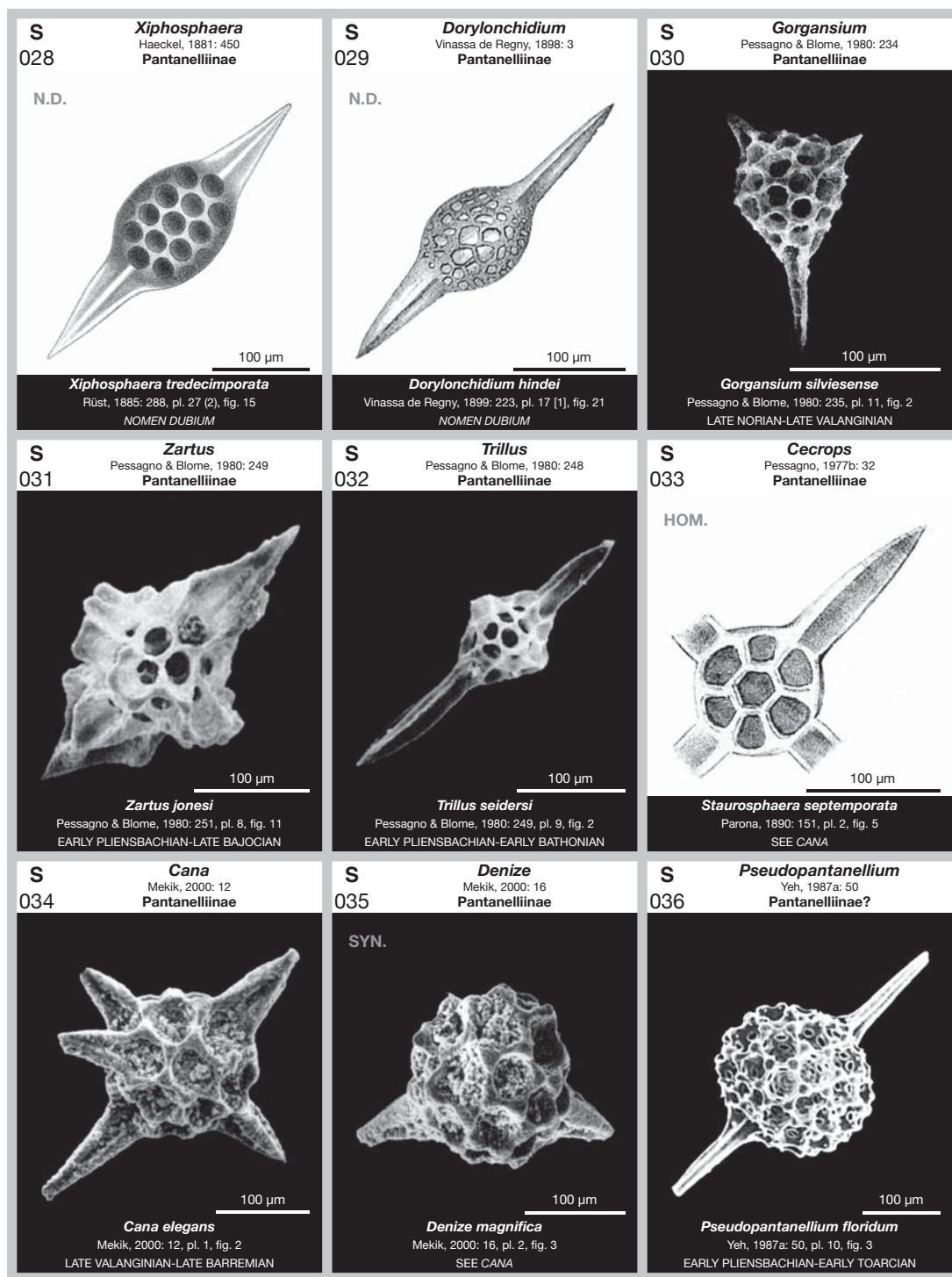
- 391 *Windalia* (syn.)
 392 *Elodium*
 393 *Ristola*
 394 *Barabasella* (inv.)
 395 *Mirifusus*
 396 *Canelonus*
 397 *Tethysetta*
 398 *Parvicingula*
 399 *Caneta*
 400, 584 .. *Darvelus*
 401 *Svinitzium*
 402 *Pseudocrolanium*
 XITIDAE Pessagno, 1977b: 53
 403 *Xitus*
 404 *Pseudoxitus*
 405 *Neorelumbra*
 406 *Praexitus*
 407 *Clavaxitus*
 408 *Crolanium*
 409 *Schaafella*
 410 *Tugurium* (hom.)
 412 *Novixitus*
 411, 603 .. *Tuguriella*
 413 *Foremanina*
 414 *Wildeus* (syn.)
 AMPHIPYNDACIDAE Riedel, 1967: 148
 415 *Eoxitus*
 416 *Amphipternis*
 417 *Amphiparvex* (syn.)
 418 *Protostichocapsa* (syn.)
 419 *Amphipyndax*
 Unnamed *pro* EUCYRTIDIIDAE Ehrenberg, 1847b: 53
 420 *Milax* (hom.)
 421 *Lantus*
 422 *Guexella*
 423 *Pseudodictyomitrella*
 424 *Eostichomitra*
 425 *Vistularia* (syn.)
 426 *Eucyrtis* (n.d.)
 427 *Stichomitra* (n.d.)
 428 *Pseudoeucyrtis*
 429 *Protokatroma* (syn.)
 430 *Foremania*
 431 *Pleesus*
 432 *Trokama* (n.d.)
 433, 588 .. *Distylocapsa*
 434 *Phalangites* (hom.)
 435 *Sandovalella*
 Unnamed *pro* STICHOCAPSIDAE Haeckel, 1881: 439
 436 *Minocapsa*
 437 *Praewilliriedellum*
 438 *Aitaum*
 439 *Hemicryptocephalis* (syn.)
 440 *Archicapsa* (n.d.)
 441 *Cyrtocapsa* (n.d.)
 442 *Kassinia* (n.d.)
 443 *Stichocapsa* (n.d.)
 444 *Theocapsa* (n.d.)
 ARCANICAPSINAE Takemura, 1986: 53
 445 *Solidea*
 446 *Religa*
 447 *Arcanicapsa*
 448 *Fultacapsa*
 449 *Podocapsa* (n.d.)
 450 *Squinabollum*
 451 ? *Quarticella*
 452 ? *Yamatoum*
 453 *Dorypyle* (n.d.)
 FAVOSYRINGIINAE Steiger, 1992: 70 (*nom. corr.* herein)
 454 *Katroma*
 455 *Teesium*
 456 *Ducatus*
 457 *Gigi*
 458 *Spinosicapsa*
 459 *Heitzeria* (syn.)
 460, 590 .. *Favosyringium*
 461 *Parapodocapsa*
 462 *Podobursa* (n.d.)
 463 *Syringocapsa* (n.d.)
 464 *Urocyrts* (n.d.)
 465 *Theosyringium* (syn.)
 COLLYRTIDIINAE Steiger, 1992: 83
 466 *Hiscocapsa*
 467 *Dibolachras*
 468 *Helocingulum* (syn.)
 469 *Morosyringium* (syn.)
 470 *Collyrtidium*
 Nassellaria *incertae sedis*
 471 *Afens*
 472 *Ares*
 473 *Parares* (syn.)
 474 *Andromeda* (hom.)
 475 *Palinandromeda*
 476 *Parvifavus*
 477 *Perseus*
 478 *Reticulotubulus*
Nomina dubia
 479 *Acanthopyle*
 480 *Acotripus*
 481 *Acutacapsula*
 482 *Adelocyrtis*
 483 *Amphibrachium* (hom.)
 484 *Anthocorys*
 485 *Archeampe*
 486 *Archeocyrtum*
 487 *Archeeucyrtis*
 488 *Archefusus*
 489 *Archemirus*
 490 *Archesomus*
 491 *Archestrum*
 492 *Archetypum*

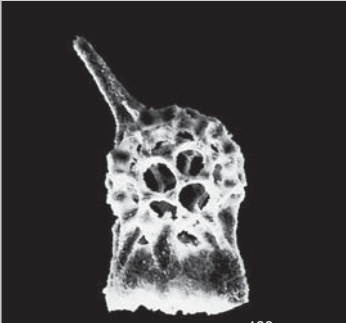
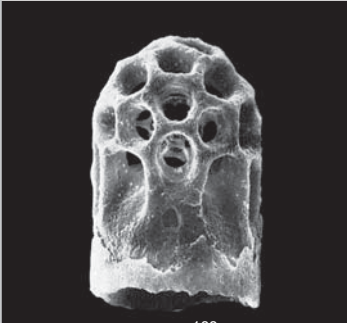
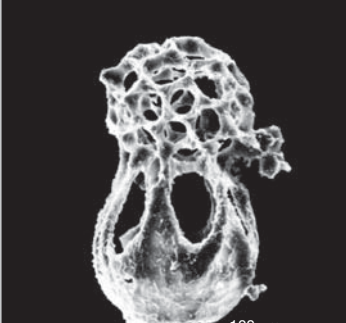
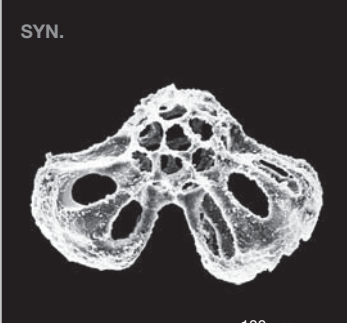
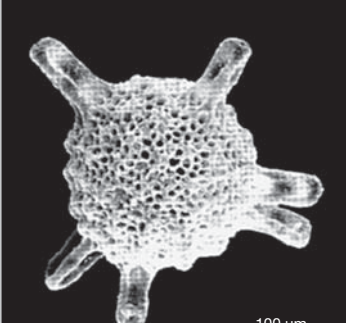
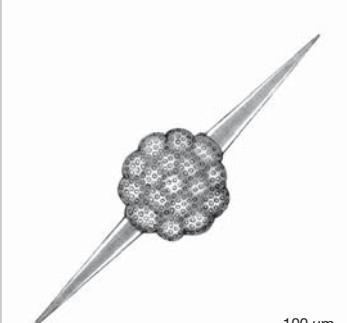
493	.....	<i>Atactodiscus</i>	537	.....	<i>Ruestia</i>
494	.....	<i>Bagotella</i>	538	.....	<i>Ruesticyclia</i>
495	.....	<i>Balcanella</i> (hom.)	539	.....	<i>Salpingocapsa</i>
496	.....	<i>Bulgarida</i>	540	.....	<i>Sethocapsa</i>
497	.....	<i>Bullacapsula</i>	541	.....	<i>Sethodiscus</i>
498	.....	<i>Carpospaera</i>	542	.....	<i>Siphocampium</i>
499	.....	<i>Cenellipsis</i>	543	.....	<i>Sphaerocalpis</i>
500	.....	<i>Cittiglioella</i>	544	.....	<i>Spongasteriscus</i>
501	.....	<i>Cornucapsula</i>	545	.....	<i>Spongechinus</i>
502	.....	<i>Cornutellium</i>	546	.....	<i>Spongoacanthus</i>
503	.....	<i>Cryptocapsa</i>	547	.....	<i>Spongocyrtis</i>
504	.....	<i>Cryptocephalus</i>	548	.....	<i>Spongoplegma</i>
505	.....	<i>Dicolocapsa</i>	549	.....	<i>Staurodictya</i>
506	.....	<i>Dictyoplegma</i>	550	.....	<i>Staurodiscus</i>
507	.....	<i>Diplactura</i>	551	.....	<i>Staurodoras</i>
508	.....	<i>Dobridolum</i>	552	.....	<i>Staurolonche</i>
509	.....	<i>Doryconthidium</i>	553	.....	<i>Staurosphaera</i>
510	.....	<i>Druppastylus</i>	554	.....	<i>Stichophormis</i>
511	.....	<i>Guttida</i>	555	.....	<i>Struma</i>
512	.....	<i>Gyangzesphaera</i>	556	.....	<i>Tesseractrum</i>
513	.....	<i>Haeckelella</i>	557	.....	<i>Tetracapsa</i>
514	.....	<i>Haliodictya</i>	558	.....	<i>Thecacapsula</i>
515	.....	<i>Hexastylus</i>	559	.....	<i>Thecosphaera</i>
516	.....	<i>Intocapsa</i>	560	.....	<i>Theocorys</i>
517	.....	<i>Kafanella</i>	561	.....	<i>Theopodium</i>
518	.....	<i>Lithocampium</i>	562	.....	<i>Tholusus</i>
519	.....	<i>Lithocorys</i>	563	.....	<i>Trekljama</i>
520	.....	<i>Lophocorys</i>	564	.....	<i>Tricolacyrtis</i>
521	.....	<i>Mariella</i> (hom.)	565	.....	<i>Tricolocampe</i>
522	.....	<i>Meyenella</i>	566	.....	<i>Trigonactura</i>
523	.....	<i>Monostylus</i>	567	.....	<i>Trigonodiscus</i>
524	.....	<i>Palaeacanthus</i>	568	.....	<i>Tripilidium</i>
525	.....	<i>Palaeoeuchitonia</i>	569	.....	<i>Tripodiscus</i>
526	.....	<i>Paramyelastrum</i>	570	.....	<i>Triprionium</i>
527	.....	<i>Platycryphalus</i>	571	.....	<i>Trisphaera</i>
528	.....	<i>Polystichia</i>	572	.....	<i>Trochosphaera</i>
529	.....	<i>Praeamphibrachidium</i>	573	.....	<i>Vasiella</i>
530	.....	<i>Praerbopalastrum</i>	574	.....	<i>Vesiculla</i>
531	.....	<i>Praestylodictya</i>	575	.....	<i>Xastrum</i>
532	.....	<i>Praexiphospira</i>	576	.....	<i>Xiphocapsa</i>
533	.....	<i>Protosphaera</i>	577	.....	<i>Xiphodictya</i>
534	.....	<i>Pyrumella</i>	578	.....	<i>Xiphostaurus</i>
535	.....	<i>Rhaphidococcus</i>	579	.....	<i>Zagortchevella</i>
536	.....	<i>Rhombodictyum</i>			

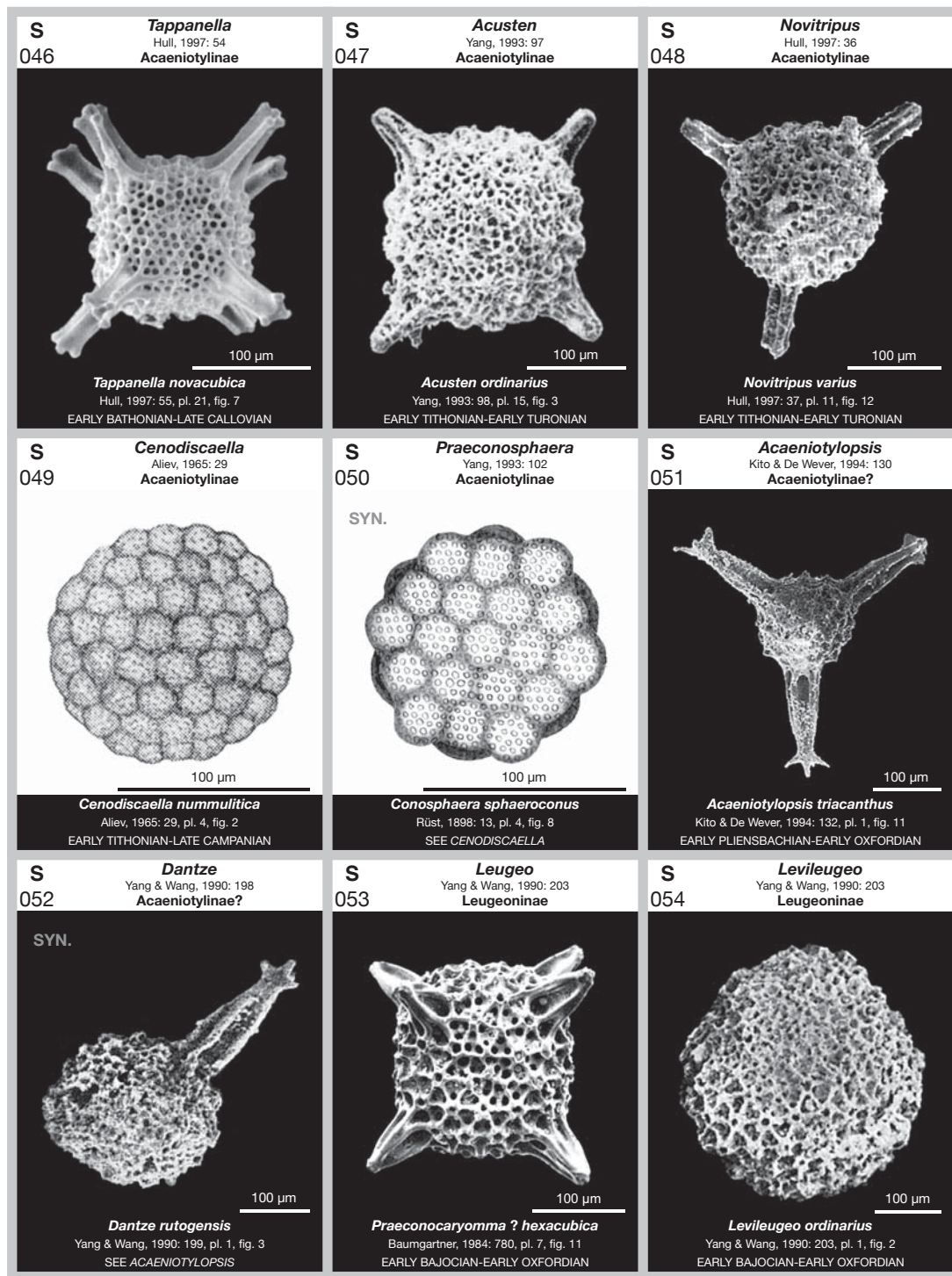
E 001 <i>Parentactinia</i> Dumitrica, 1978b: 49 Parentactiniidae  100 µm <i>Parentactinia pugna</i> Dumitrica, 1978b: 50, pl. 5, fig. 2 LATE OLENEKIAN-LATE HETTANGIAN	E 002 <i>Fenestrula</i> Yeh, 1995: 95 Entactiniidae  100 µm <i>Fenestrula jurassica</i> Yeh, 1995: 95, pl. 1, fig. 10 EARLY TOARCIAN	E 003 <i>Cuboctostylus</i> Bragina, 1999a: 574 Polyentactiniidae?  100 µm <i>Cuboctostylus kasinzovae</i> Bragina, 1999a: 575, fig. 5B EARLY BERRIASIAN-EARLY CAMPANIAN
E 004 <i>Pylostostylus</i> Dumitrica, 1994: 236 Polyentactiniidae?  100 µm <i>Pylostostylus nazarovi</i> Dumitrica, 1994: 237, pl. 1, fig. 1 LATE BERRIASIAN-EARLY CENOMANIAN	E 005 <i>Tozerium</i> Whalen & Carter in Carter et al., 1998: 43 Eptingiidae?  100 µm <i>Tozerium nascens</i> Whalen & Carter in Carter et al., 1998: 44, pl. 1, fig. 1 EARLY HETTANGIAN-EARLY SINEMURIAN	E 006 <i>Charlottea</i> Whalen & Carter in Carter et al., 1998: 37 Eptingiidae  100 µm <i>Charlottea amurensis</i> Whalen & Carter in Carter et al., 1998: 37, pl. 2, fig. 8 EARLY HETTANGIAN-EARLY TOARCIAN
E 007 <i>Perispyridium</i> Dumitrica, 1978a: 35 Eptingiidae  100 µm <i>Trilonche ? ordinaria</i> Pessagno, 1977a: 79, pl. 6, fig. 14 EARLY PLIENSCHACHIAN-LATE TITHONIAN	E 008 <i>Protoperispyridium</i> Yeh, 1987a: 91 Eptingiidae SYN.  100 µm <i>Protoperispyridium oregonense</i> Yeh, 1987a: 91, pl.13, fig. 14 SEE <i>PERISPYRIDUM</i>	E 009 <i>Caltrop</i> Carter in Carter et al., 1988: 48 Eptingiidae?  100 µm <i>Caltrop nodosum</i> Carter in Carter et al., 1988: 48, pl. 9, fig. 8 EARLY TOARCIAN-LATE TOARCIAN

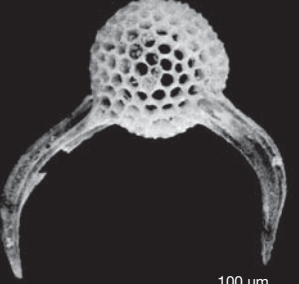
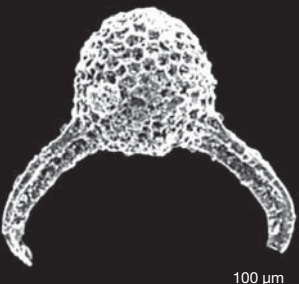
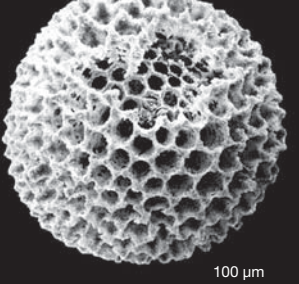
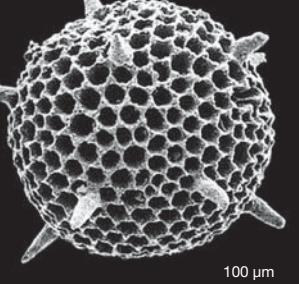


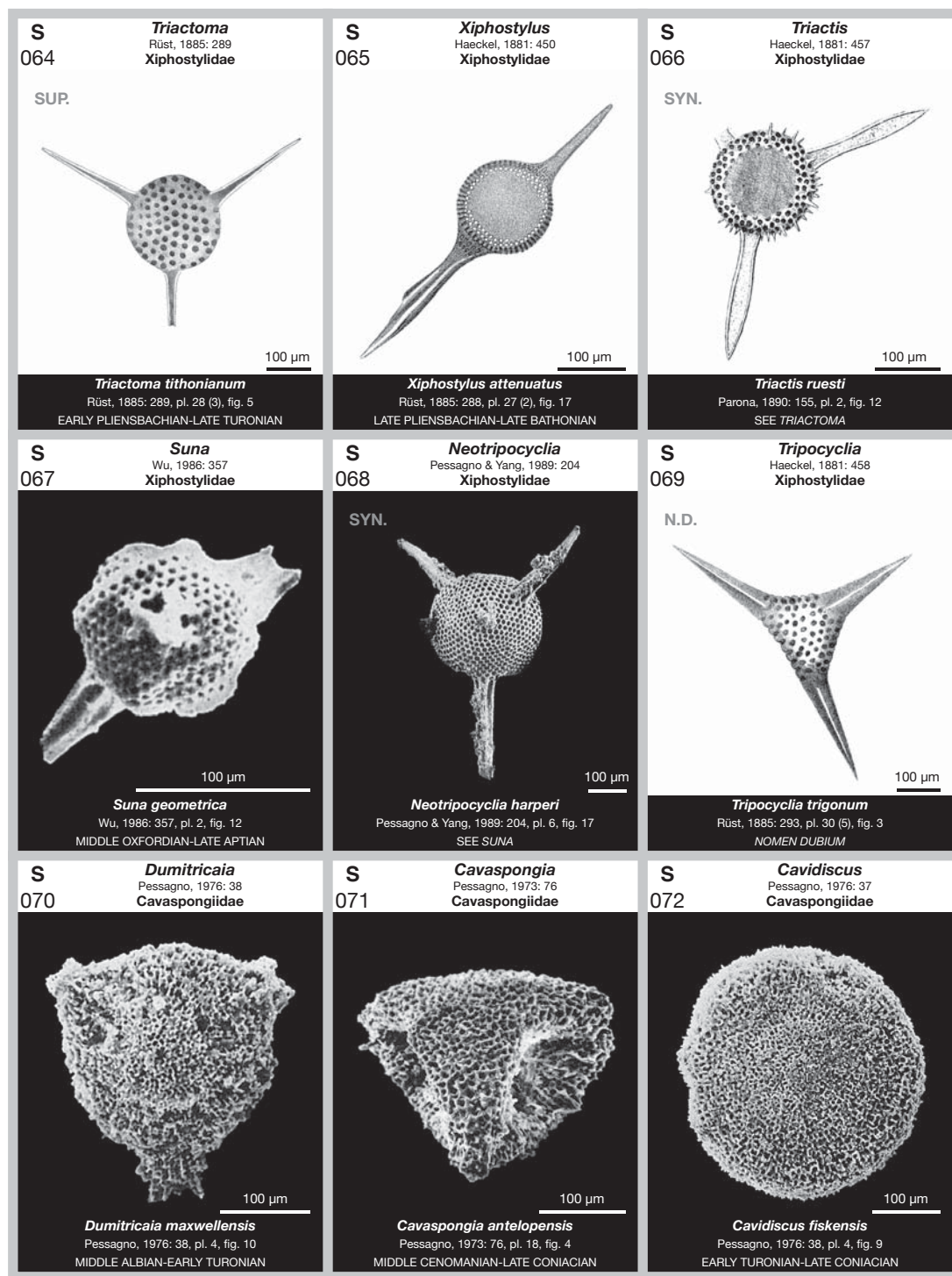
S 019 <i>Lithomespilus</i> Haeckel, 1881: 450 Sphaerostylidae  100 µm <i>Lithomespilus phloginus</i> Haeckel, 1887: 302, pl. 14, fig. 16 LATE CAMPANIAN-EARLY EOCENE	S 020 <i>Stylosphaera</i> Ehrenberg, 1847a: 385 Sphaerostylidae  100 µm <i>Stylosphaera hispida</i> Ehrenberg, 1854a: 246 (unfigured); 1854b: pl. 36, fig. 26 LATE CAMPANIAN-RECENT	S 021 <i>Praestyllosphaera</i> Empson-Morin, 1981: 261 Sphaerostylidae SYN.  100 µm <i>Sphaerostylus (Sphaerostylantha) hastatus</i> Campbell & Clark, 1944: 5, pl. 1, fig. 6 (new lectotype) SEE STYLOSPHAERA
S 022 <i>Sphaerostylus</i> Haeckel, 1881: 451 Sphaerostylidae SYN.  100 µm <i>Sphaerostylus zittellii</i> Rüst, 1885: 291, pl. 29 (4), fig. 1 SEE STYLOSPHAERA	S 023 <i>Heliosestarium</i> Campbell & Clark, 1944: 14 Sphaerostylidae SUP.  100 µm <i>Heliosestarium cretaceum</i> Campbell & Clark, 1944: 14, pl. 4, fig. 1 LATE MAASTRICHTIAN-EARLY EOCENE	S 024 <i>Stylodruppa</i> Kazintsova, 1979: 95 Sphaerostylidae N.D.  100 µm <i>Stylodruppa bifascicula</i> Kazintsova, 1979: 95, pl. 1, fig. 1 NOMEN DUBIUM
S 025 <i>Pantanellium</i> Pessagno, 1977a: 78 Pantanelliinae  100 µm <i>Pantanellium riedeli</i> Pessagno, 1977a: 78, pl. 6, fig. 5 LATE CARNIAN-LATE APTIAN	S 026 <i>Pachyonchus</i> Pessagno & Blome, 1980: 236 Pantanelliinae  100 µm <i>Pachyonchus tumidus</i> Pessagno & Blome, 1980: 237, pl. 10, fig. 9 EARLY BAJOCIAN-LATE BAJOCIAN	S 027 <i>Ellipsoxiphus</i> Dunikowski, 1882: 185 Pantanelliinae N.D.  100 µm <i>Ellipsoxiphus suessi</i> Dunikowski, 1882: 186, pl. 5, fig. 50 NOMEN DUBIUM

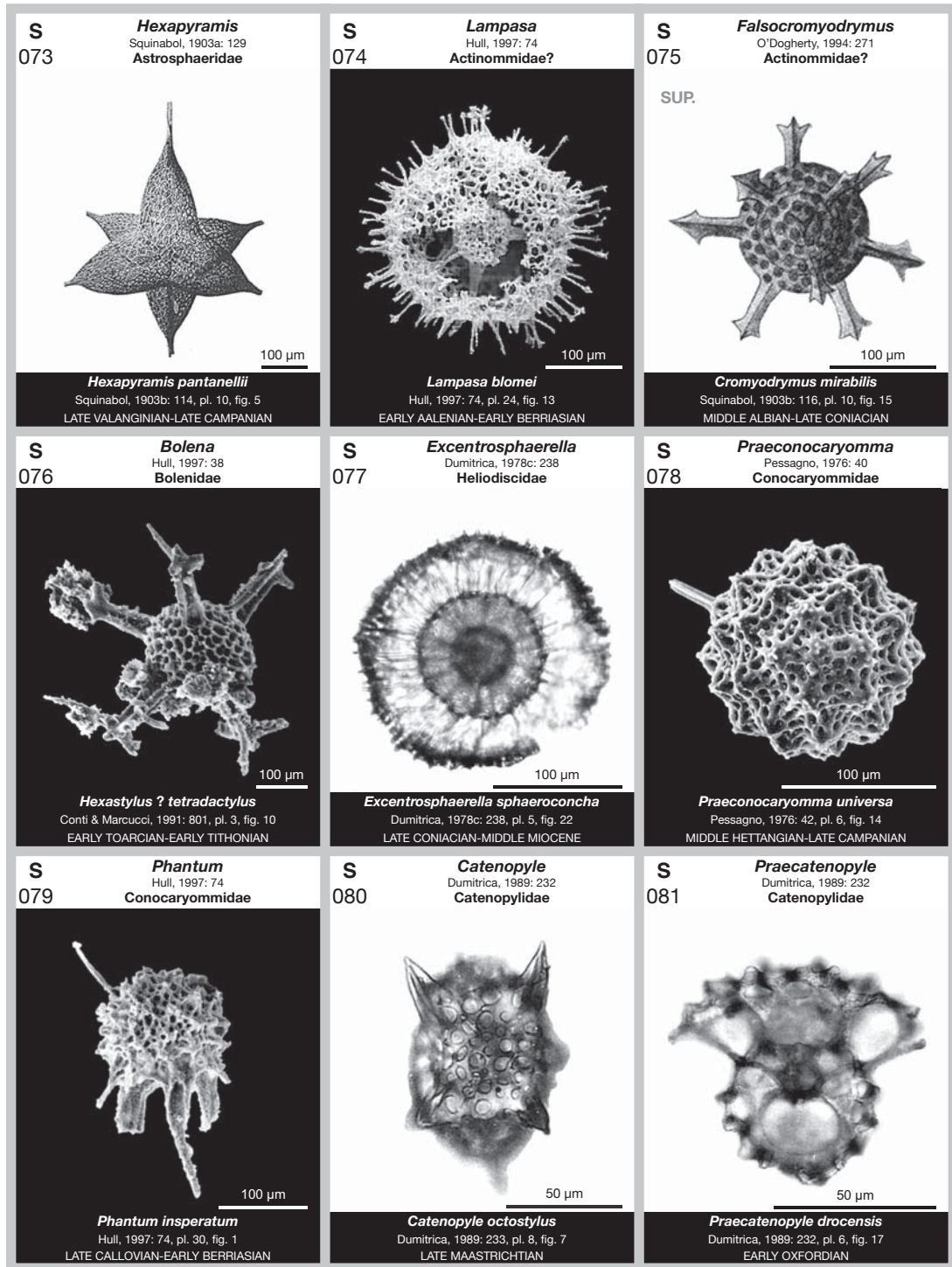


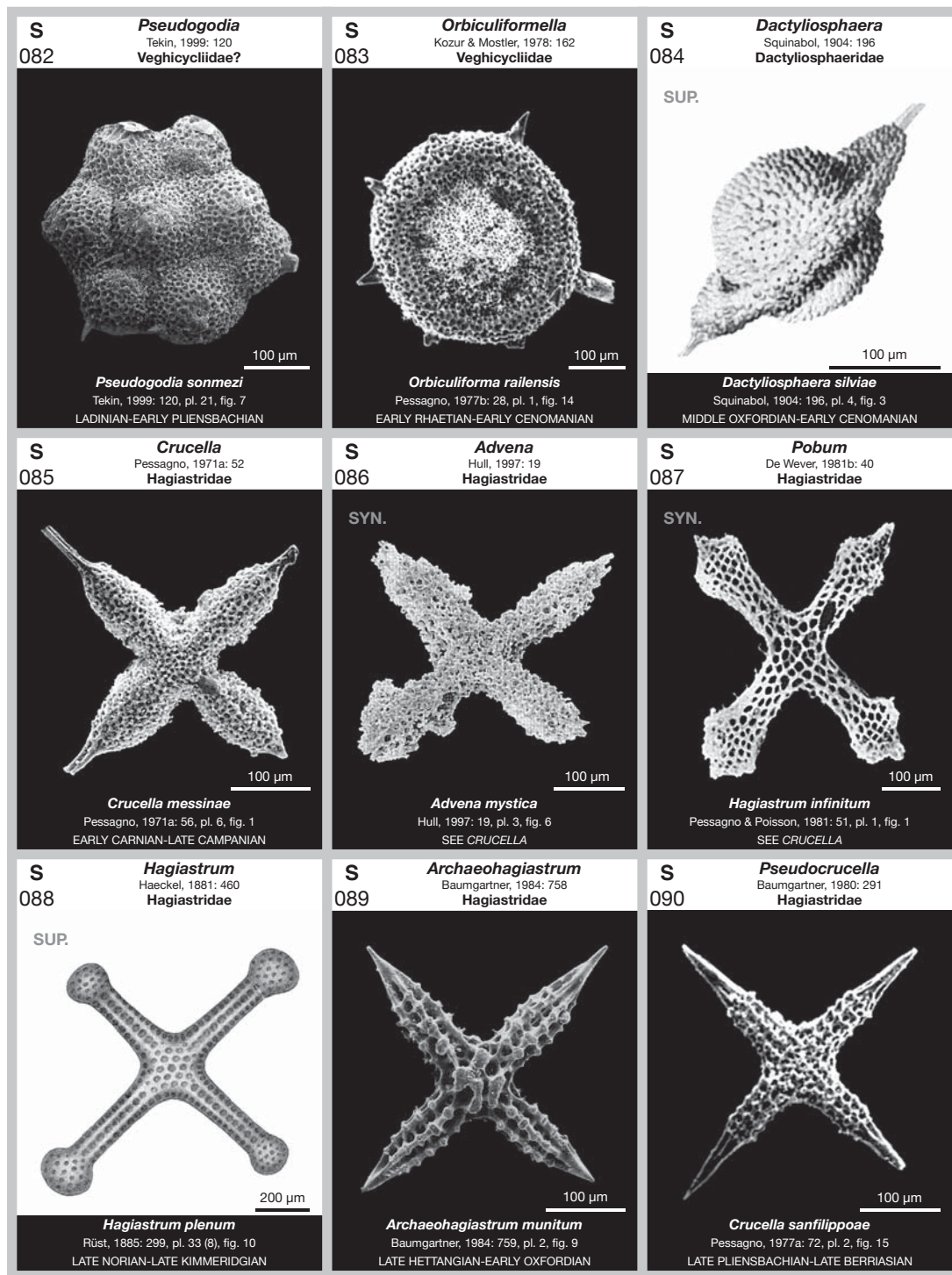
S 037 <i>Protovallupus</i> Pessagno & MacLeod, 1987: 28 Vallupinae  100 µm <i>Protovallupus vaticinus</i> Pessagno & MacLeod, 1987: 29, pl. 6, fig. 3 EARLY KIMMERIDGIAN-LATE TITHONIAN	S 038 <i>Mesovallupus</i> Pessagno & MacLeod, 1987: 27 Vallupinae  100 µm <i>Mesovallupus guadalupensis</i> Pessagno & MacLeod, 1987: 28, pl. 3, fig. 6 EARLY KIMMERIDGIAN-LATE TITHONIAN	S 039 <i>Vallupus</i> Pessagno & Blome, 1984: 23 Vallupinae  100 µm <i>Vallupus hopsoni</i> Pessagno & Blome, 1984: 23, pl. 1, fig. 21 EARLY KIMMERIDGIAN-EARLY BERRIASIAN
S 040 <i>Bivallupus</i> Pessagno & MacLeod, 1987: 26 Vallupinae SYN.  100 µm <i>Bivallupus longoriai</i> Pessagno & MacLeod, 1987: 26, pl. 3, fig. 13 SEE VALLUPUS	S 041 <i>Neovallupus</i> Yang & Pessagno, 1989: 126 Vallupinae  100 µm <i>Neovallupus dumitricai</i> Yang & Pessagno, 1989: 129, pl. 1, fig. 2 LATE TITHONIAN	S 042 <i>Supervallupus</i> Yang & Pessagno, 1989: 131 Vallupinae SYN.  100 µm <i>Supervallupus haeckeli</i> Yang & Pessagno, 1989: 131, pl. 2, fig. 9 SEE NEOVALLUPUS
S 043 <i>Acastea</i> Yang, 1993: 94 Acaeniotylinae HOM.  100 µm <i>Acaeniotyle diaphorogona</i> Foreman, 1973b: 258, pl. 2, fig. 3 LATE BAJOCIAN-LATE CAMPANIAN	S 044 <i>Nolita</i> Hull, 1997: 36 Acaeniotylinae  100 µm <i>Nolita ramosa</i> Hull, 1997: 36, pl. 11, fig. 9 EARLY TITHONIAN-LATE TITHONIAN	S 045 <i>Acaeniotyle</i> Foreman, 1973b: 258 Acaeniotylinae  100 µm <i>Xiphosphaera umbilicata</i> Rüst, 1898: 7, pl. 1, fig. 9 LATE OXFORDIAN-LATE CAMPANIAN

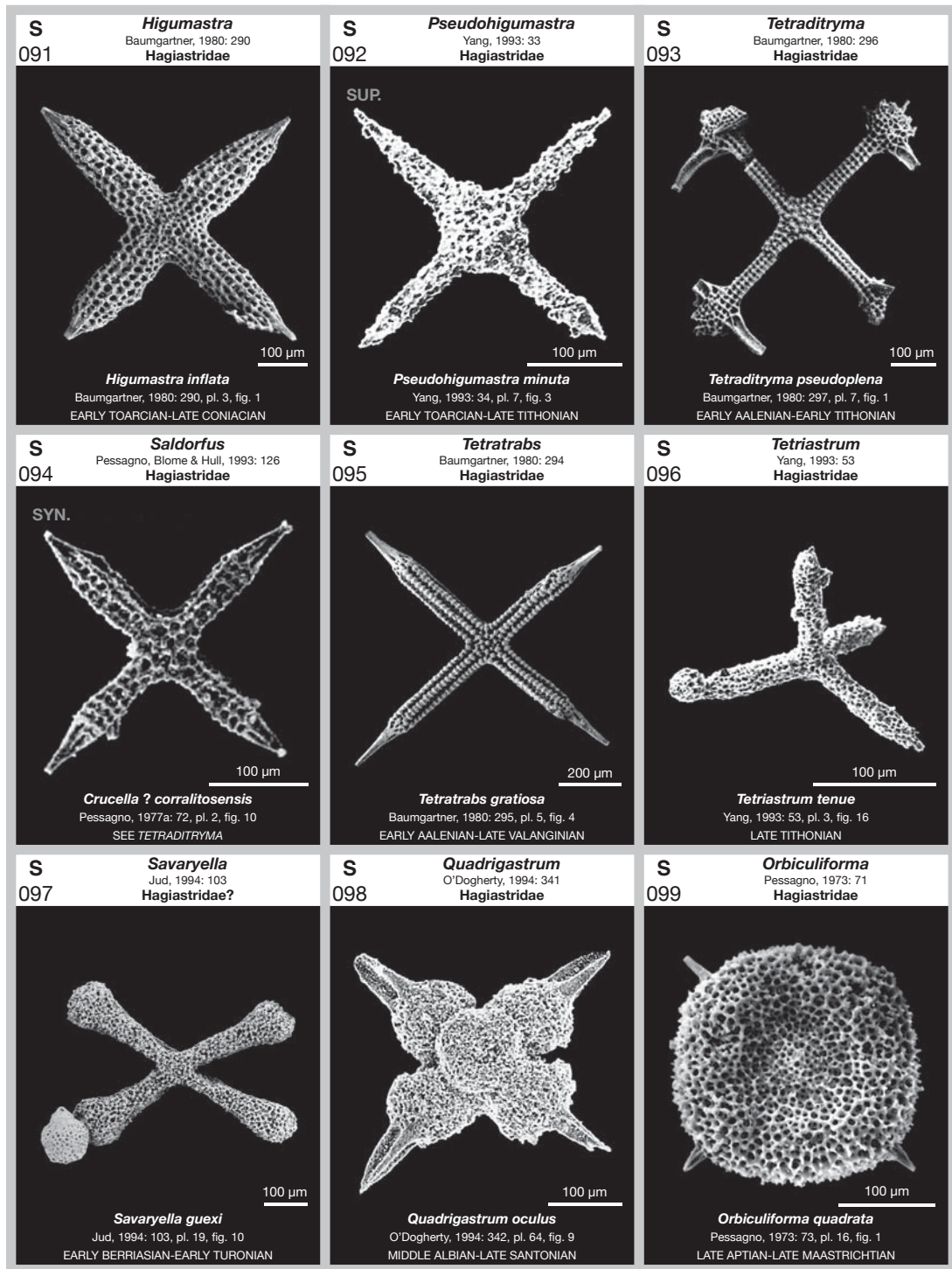


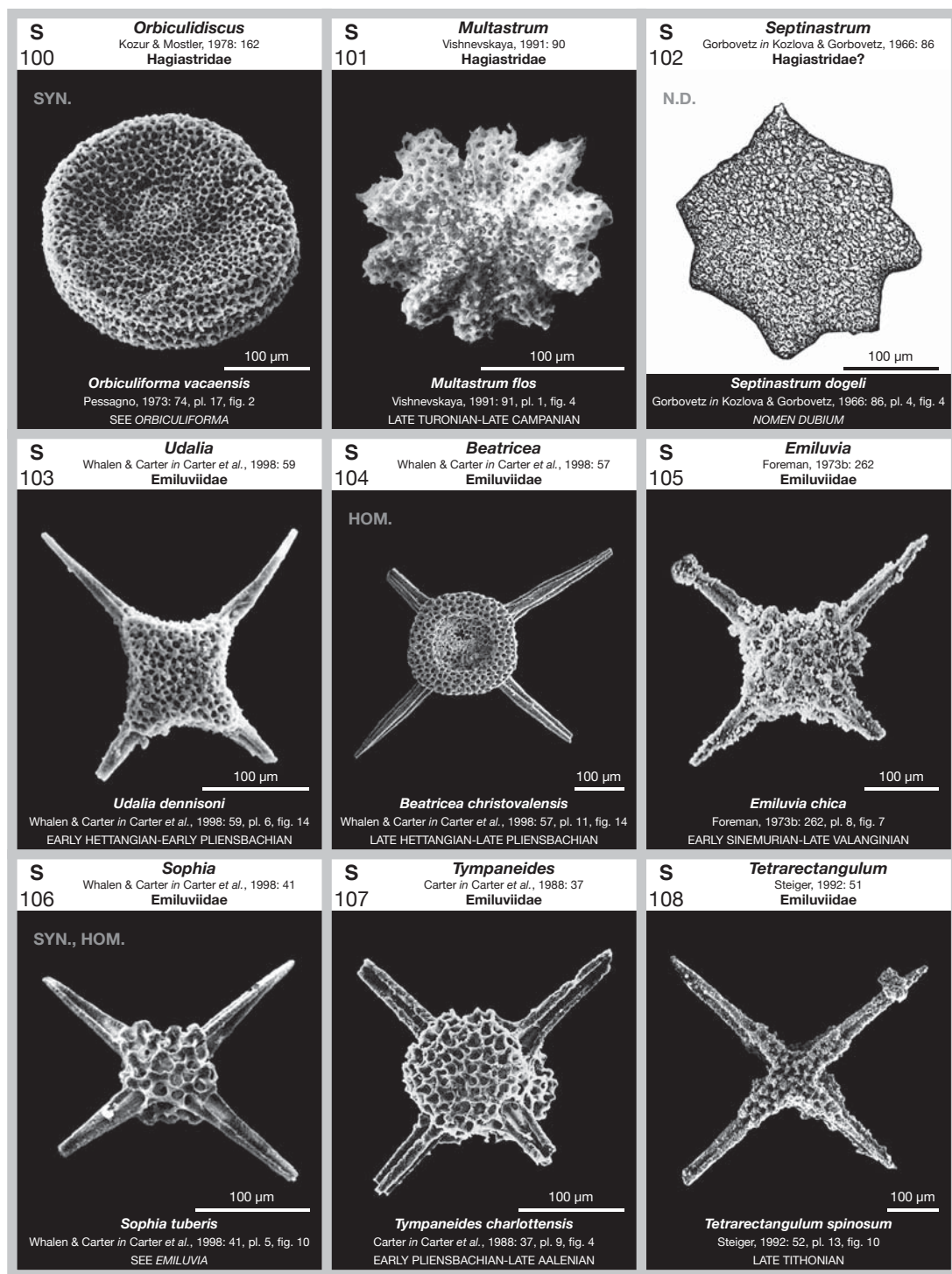
S 055 <i>Hexasphaera</i> Hull, 1997: 53 Leugeoninae SYN.  100 µm <i>Hexasphaera baumgartneri</i> Hull, 1997: 53, pl. 20, fig. 5 SEE LEVILEUGEO	S 056 <i>Lanubus</i> Pessagno & Yang, 1989: 242 Parvivaccinae  100 µm <i>Lanubus holdsworthi</i> Pessagno & Yang, 1989: 243, pl. 4, fig. 15 EARLY BAJOCIAN-EARLY BERRIASIAN	S 057 <i>Zanola</i> Pessagno & Yang, 1989: 241 Parvivaccinae SYN., HOM.  100 µm <i>Triactoma cornuta</i> Baumgartner in Baumgartner <i>et al.</i>, 1980: 63, pl. 2, fig. 2 SEE LANUBUS
S 058 <i>Diactoma</i> Steiger, 1992: 29 Parvivaccinae SYN.  100 µm <i>Diactoma curvata</i> Steiger, 1992: 30, pl. 3, fig. 1 SEE LANUBUS	S 059 <i>Parvivacca</i> Pessagno & Yang, 1989: 244 Parvivaccinae  100 µm <i>Parvivacca blomei</i> Pessagno & Yang, 1989: 244, pl. 10, fig. 18 EARLY OXFORDIAN-EARLY BARREMIAN	S 060 <i>Dicroa</i> Foreman, 1975: 609 Parvivaccinae  200 µm <i>Dicroa periosa</i> Foreman, 1975: 609, pl. 3, fig. 8 EARLY BERRIASIAN-EARLY TURONIAN
S 061 <i>Helena</i> Hull, 1997: 54 Parvivaccinae? HOM.  100 µm <i>Helena exquisita</i> Hull, 1997: 54, pl. 21, fig. 1 LATE BATHONIAN-LATE CALLOVIAN	S 062 <i>Archaeocenosphaera</i> Pessagno & Yang, 1989: 203 Xiphostylidae  100 µm <i>Archaeocenosphaera ruesti</i> Pessagno & Yang, 1989: 203, pl. 9, fig. 23 MIDDLE ANISIAN-LATE CAMPANIAN	S 063 <i>Amuria</i> Whalen & Carter in Carter <i>et al.</i>, 1998: 56 Xiphostylidae HOM.  100 µm <i>Amuria impensa</i> Whalen & Carter in Carter <i>et al.</i>, 1998: 56, pl. 11, fig. 2 LATE ANISIAN-EARLY HAUTERIVIAN

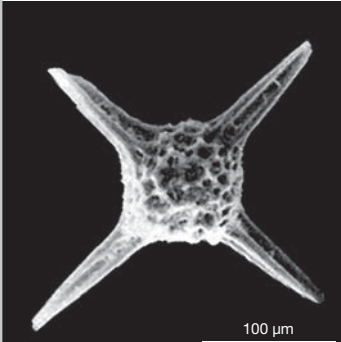
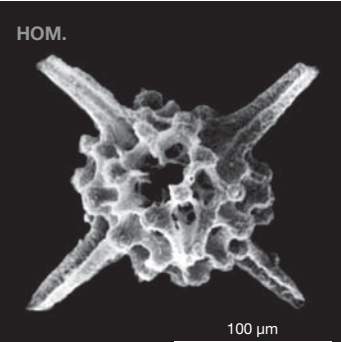
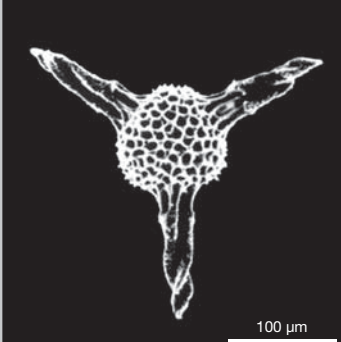
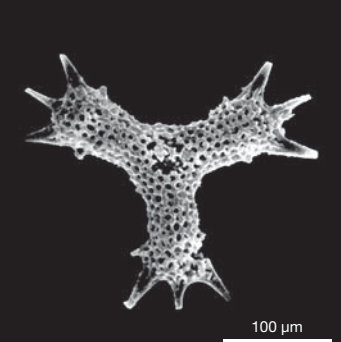
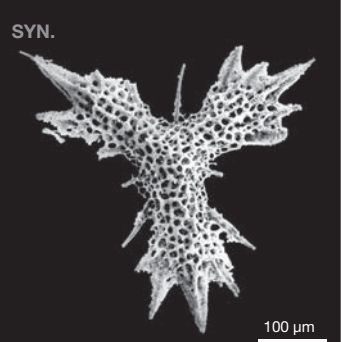
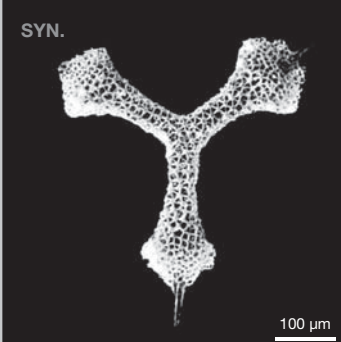
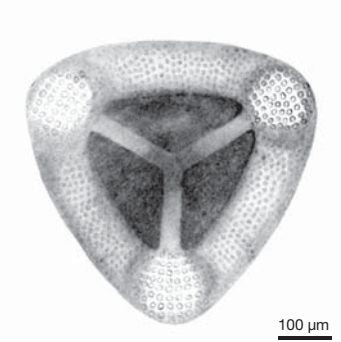
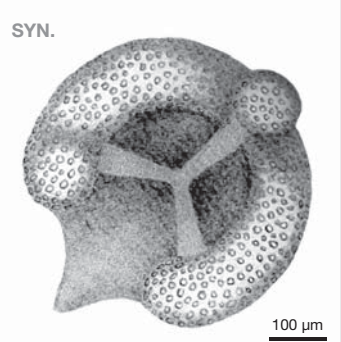


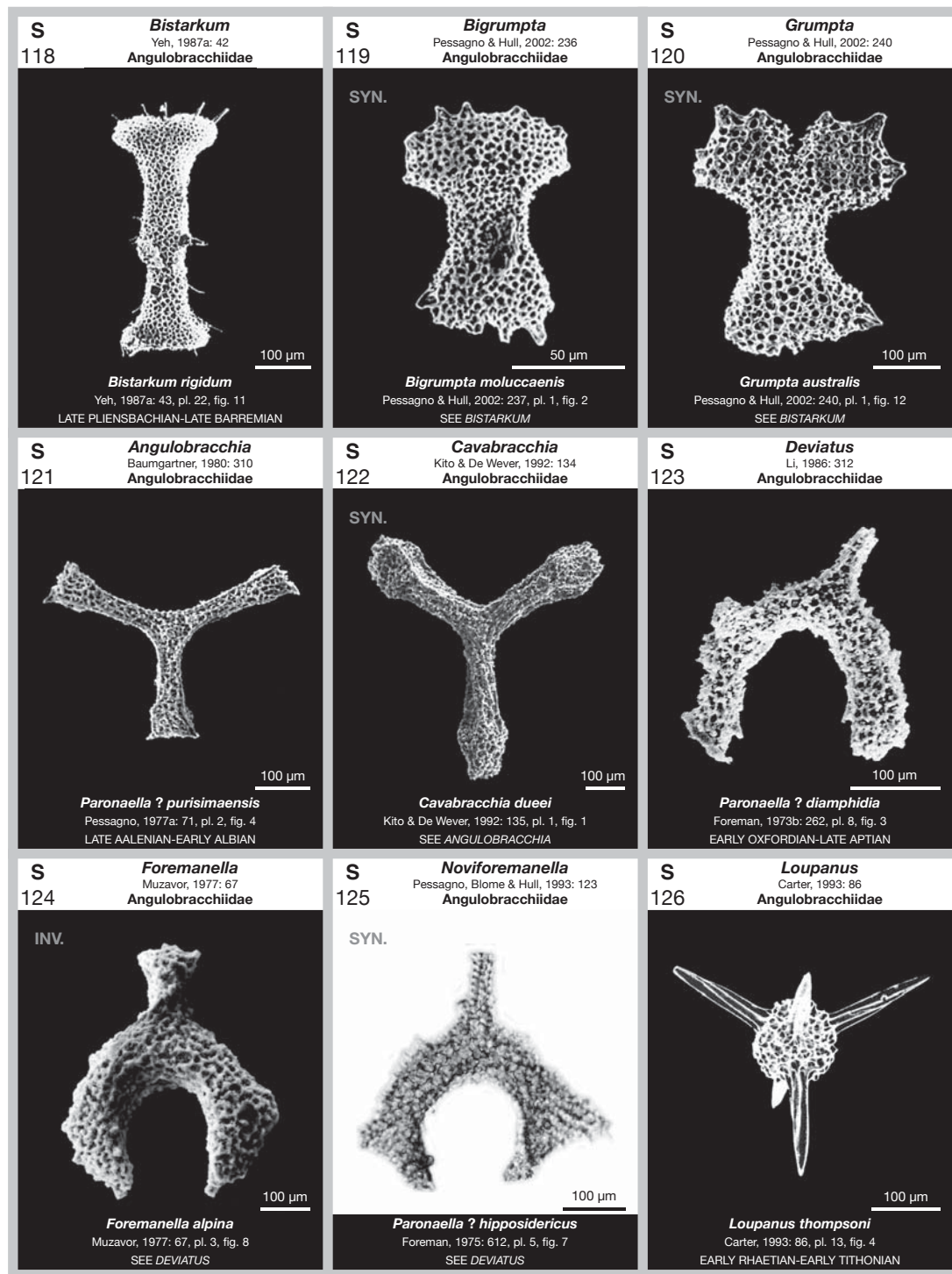


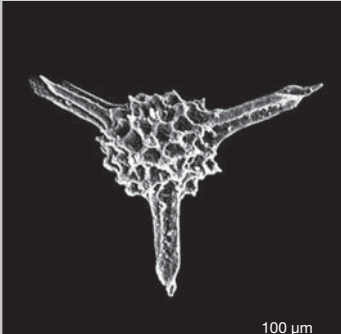
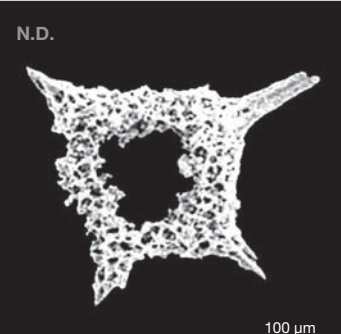
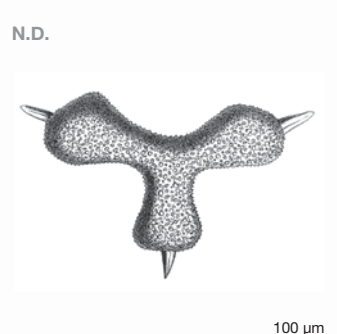
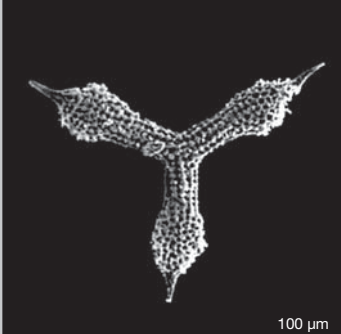
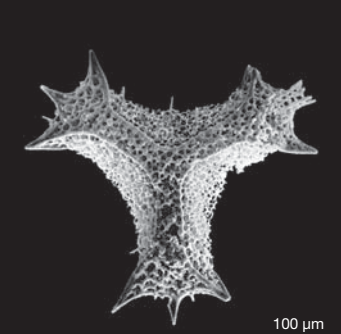
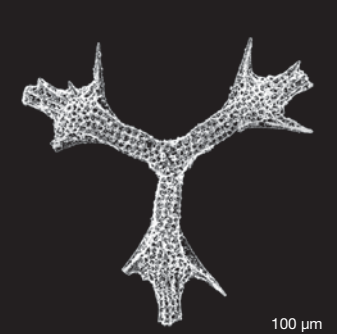
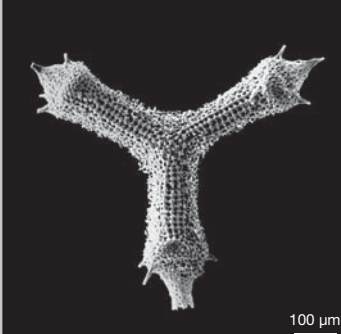
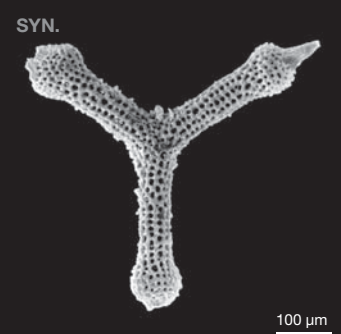
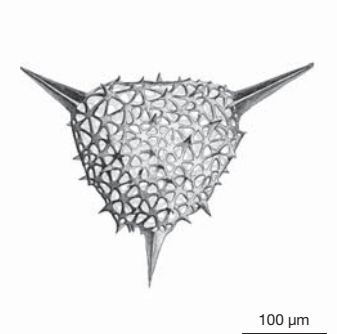


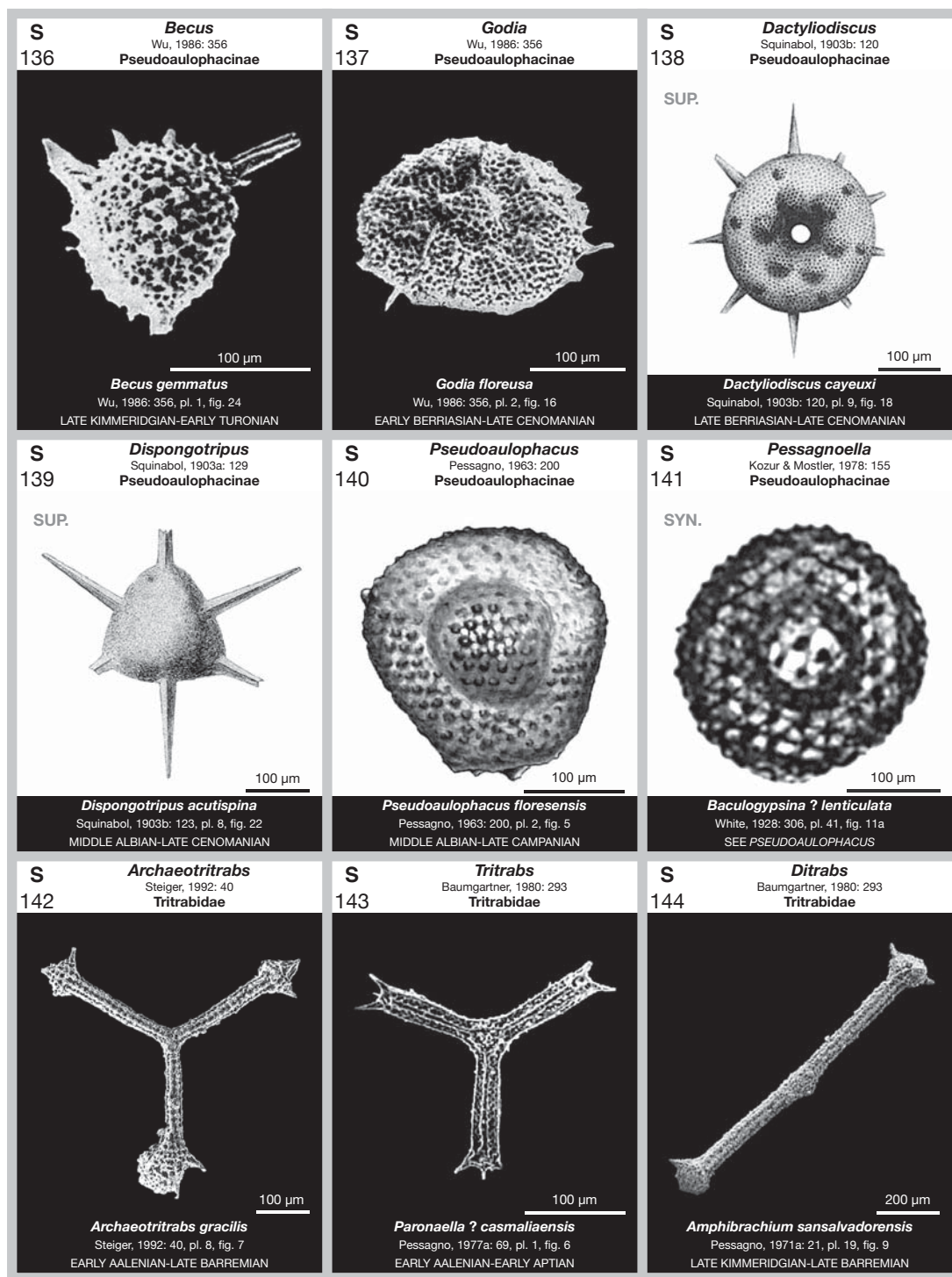


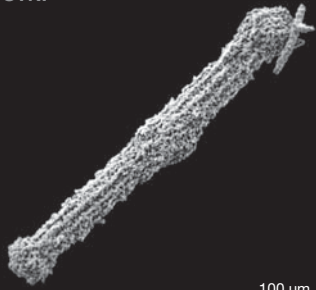
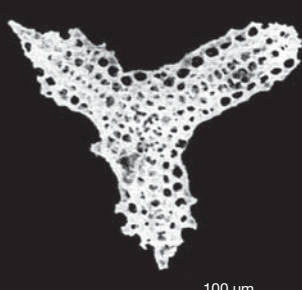
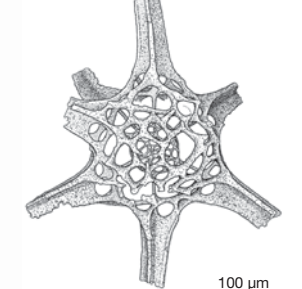
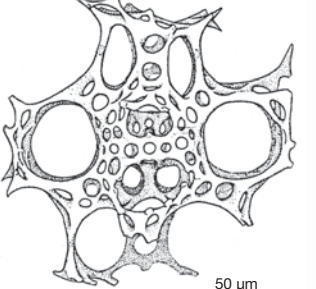
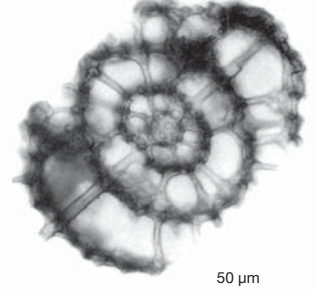
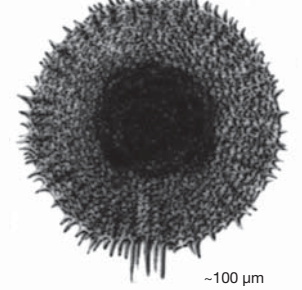
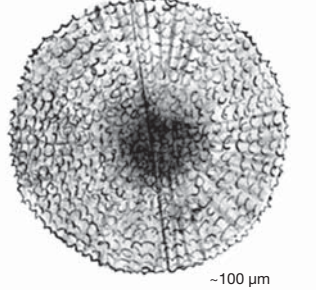


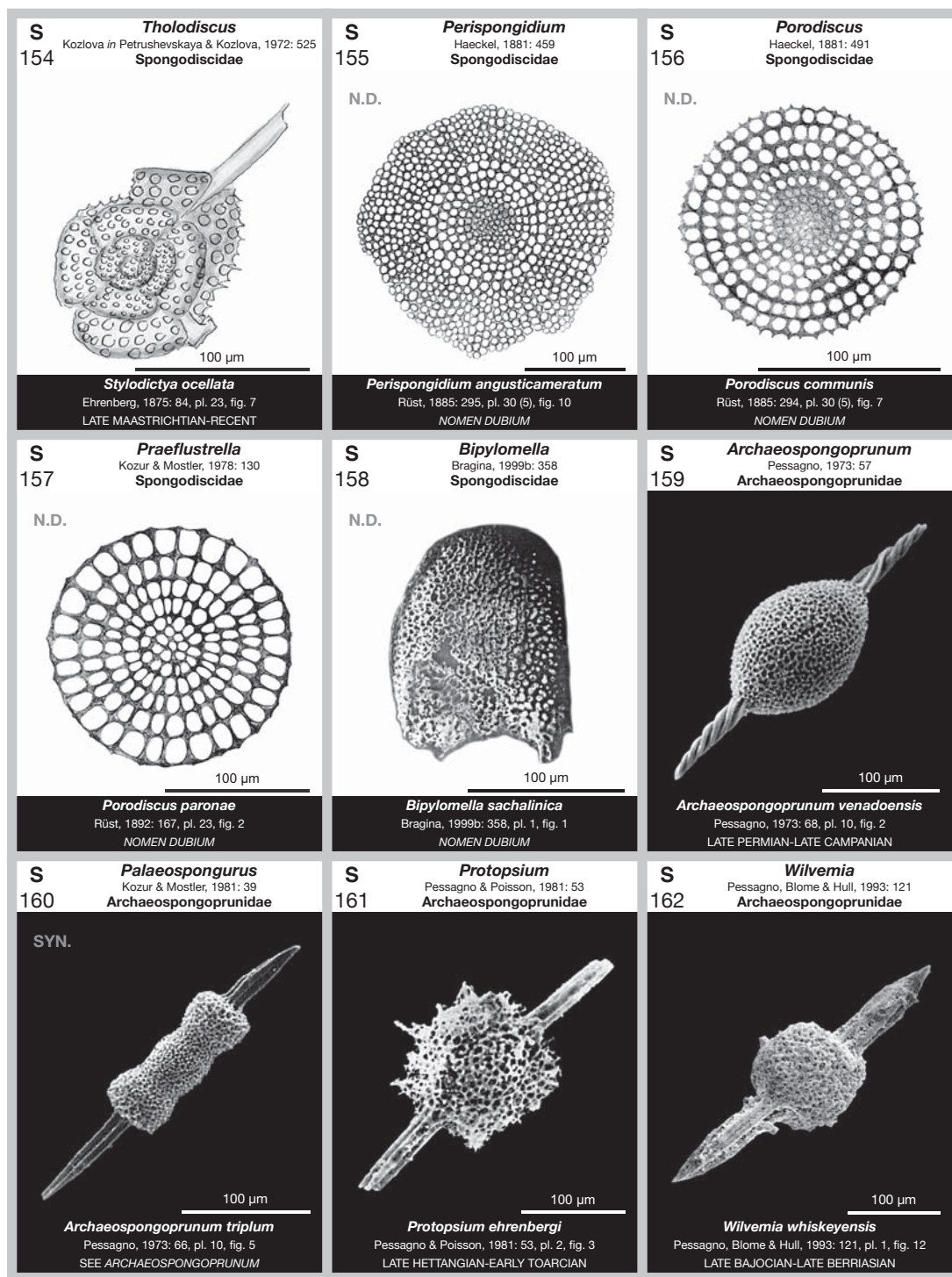
S 109 <i>Kreutzstella</i> Empson-Morin, 1981: 258 Emiliviidae  <i>Kreutzstella vierkantiga</i> Empson-Morin, 1981: 258, pl. 2, 9A LATE ALBIAN-LATE CAMPANIAN 100 µm	S 110 <i>Thurstonia</i> Whalen & Carter in Carter et al., 1998: 42 Emiliviidae? HOM.  <i>Thurstonia minutaglobus</i> Whalen & Carter in Carter et al., 1998: 43, pl. 8, fig. 6 EARLY HETTANGIAN-EARLY TOARCICAN 100 µm	S 111 <i>Mendacastrum</i> Dumitrica & Zügel, 2002: 26 Mendacastridae  <i>Mendacastrum baumgartneri</i> Dumitrica & Zügel, 2002: 28, pl. 2, fig. 6 EARLY TITHONIAN 100 µm
S 112 <i>Fontinella</i> Carter, 1993: 42 Triarcellinae  <i>Fontinella louisensis</i> Carter, 1993: 45, pl. 2, fig. 1 LATE NORIAN-MIDDLE HETTANGIAN 100 µm	S 113 <i>Paronaella</i> Pessagno, 1971a: 46 Angulobracchiidae  <i>Paronaella solanoensis</i> Pessagno, 1971a: 48, pl. 10, fig. 2 EARLY RHÄTIAN-LATE CONIACIAN 100 µm	S 114 <i>Archaeotriastrum</i> De Wever, 1981b: 30 Angulobracchiidae SYN.  <i>Archaeotriastrum hirsutum</i> De Wever, 1981b: 30, pl. 1, fig. 13 SEE PARONELLA 100 µm
S 115 <i>Sontonaella</i> Yeh, 1987a: 44 Angulobracchiidae SYN.  <i>Sontonaella snowshoensis</i> Yeh, 1987a: 46, pl. 22, fig. 9 SEE PARONELLA 100 µm	S 116 <i>Cyclastrum</i> Rüst, 1898: 28 Angulobracchiidae  <i>Cyclastrum infundibuliforme</i> Rüst, 1898: 28, pl. 9, fig. 5 EARLY PLIENSCHACHIAN-EARLY ALBIAN 100 µm	S 117 <i>Ungulastrum</i> Kozur & Mostler, 1978: 167 Angulobracchiidae SYN.  <i>Hymeniastrum unguale</i> Rüst, 1898: 28, pl. 9, fig. 3 SEE CYCLASTRUM 100 µm

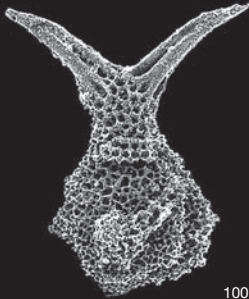
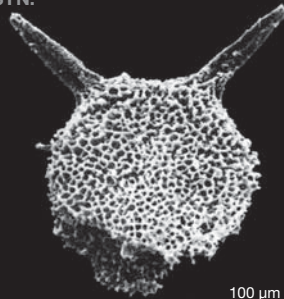
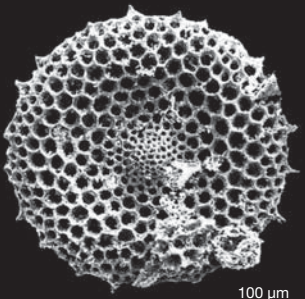
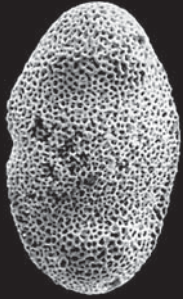
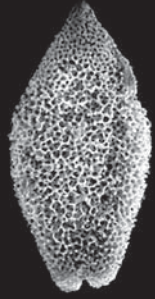


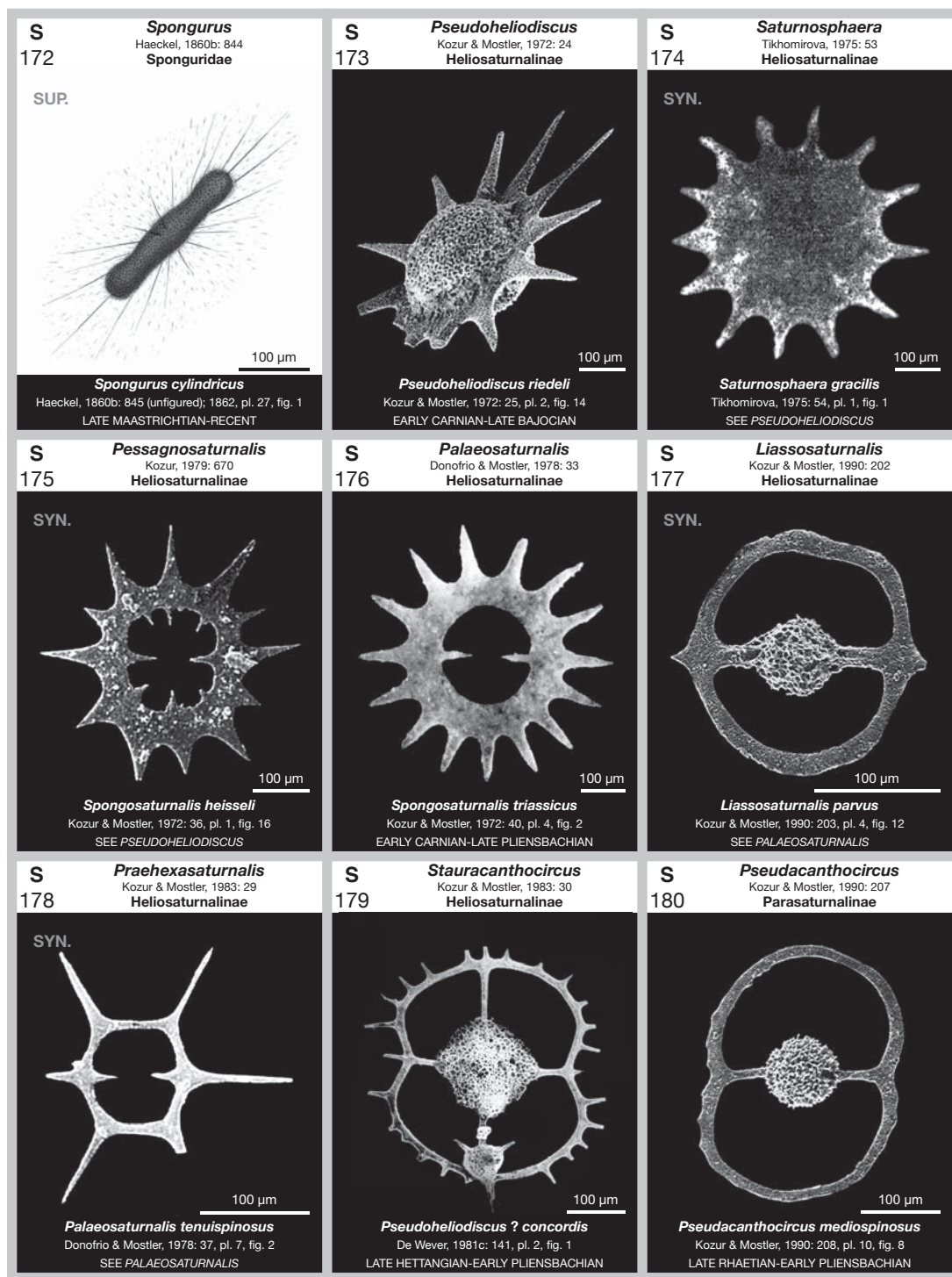
S 127 <i>Liassobetraccium</i> Kozur & Mostler, 1990: 215 Angulobracchiidae  100 µm <i>Betraccium bavaricum</i> Kozur & Mostler, 1990: 215, pl. 14, fig. 4 MIDDLE HETTANGIAN-EARLY SINEMURIAN	S 128 <i>Gelasinus</i> Yeh & Yang, 2006: 333 Angulobracchiidae N.D.  100 µm <i>Gelasinus tetralatus</i> Yeh & Yang, 2006: 334, pl. 4, fig. 7 NOMEN DUBIUM	S 129 <i>Triactinosphaera</i> Dunikowski, 1882: 192 Angulobracchiidae N.D.  100 µm <i>Triactinosphaera zitteli</i> Dunikowski, 1882: 192, pl. 6, fig. 69 NOMEN DUBIUM
S 130 <i>Homoeoparonaella</i> Baumgartner, 1980: 288 Patulibracchiidae  100 µm <i>Paronaella elegans</i> Pessagno, 1977a: 70, pl. 1, fig. 10 LATE SINEMURIAN-LATE CENOMANIAN	S 131 <i>Halesium</i> Pessagno, 1971a: 23 Patulibracchiidae  100 µm <i>Halesium sexangulum</i> Pessagno, 1971a: 25, pl. 1, fig. 5 EARLY CALLOVIAN-LATE CONIACIAN	S 132 <i>Fluegelium</i> Steiger & Steiger, 1994: 457 Patulibracchiidae  100 µm <i>Fluegelium symmetricum</i> Steiger & Steiger, 1994: 457, pl. 1, fig. 6 EARLY KIMMERIDGIAN-EARLY TITHONIAN
S 133 <i>Patulibracchium</i> Pessagno, 1971a: 26 Patulibracchiidae  100 µm <i>Patulibracchium davisi</i> Pessagno, 1971a: 30, pl. 1, fig. 1 LATE APTIAN-LATE MAASTRICHTIAN	S 134 <i>Pessagnobrachia</i> Kozur & Mostler, 1978: 142 Patulibracchiidae SYN.  100 µm <i>Patulibracchium teslaensis</i> Pessagno, 1971a: 41, pl. 12, fig. 3 SEE PATULIBRACCHIUM	S 135 <i>Alievium</i> Pessagno, 1972: 297 Pseudoaulophacinae  100 µm <i>Theodiscus superbus</i> Squinabol, 1914: 271, pl. 20 [1], fig. 4 LATE BAJOCIAN-LATE MAASTRICHTIAN

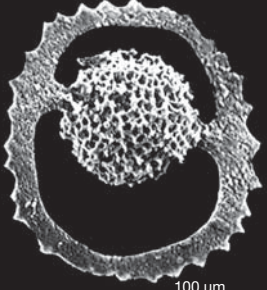
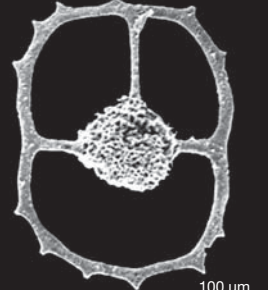
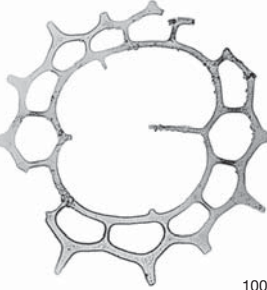
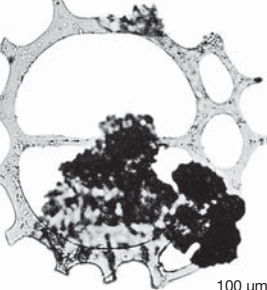
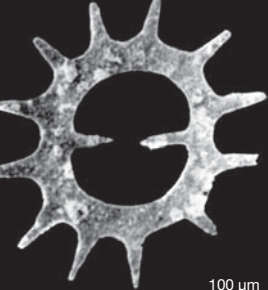
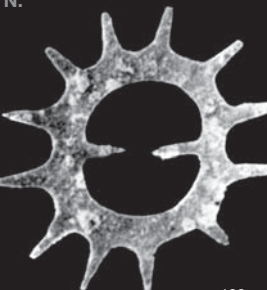


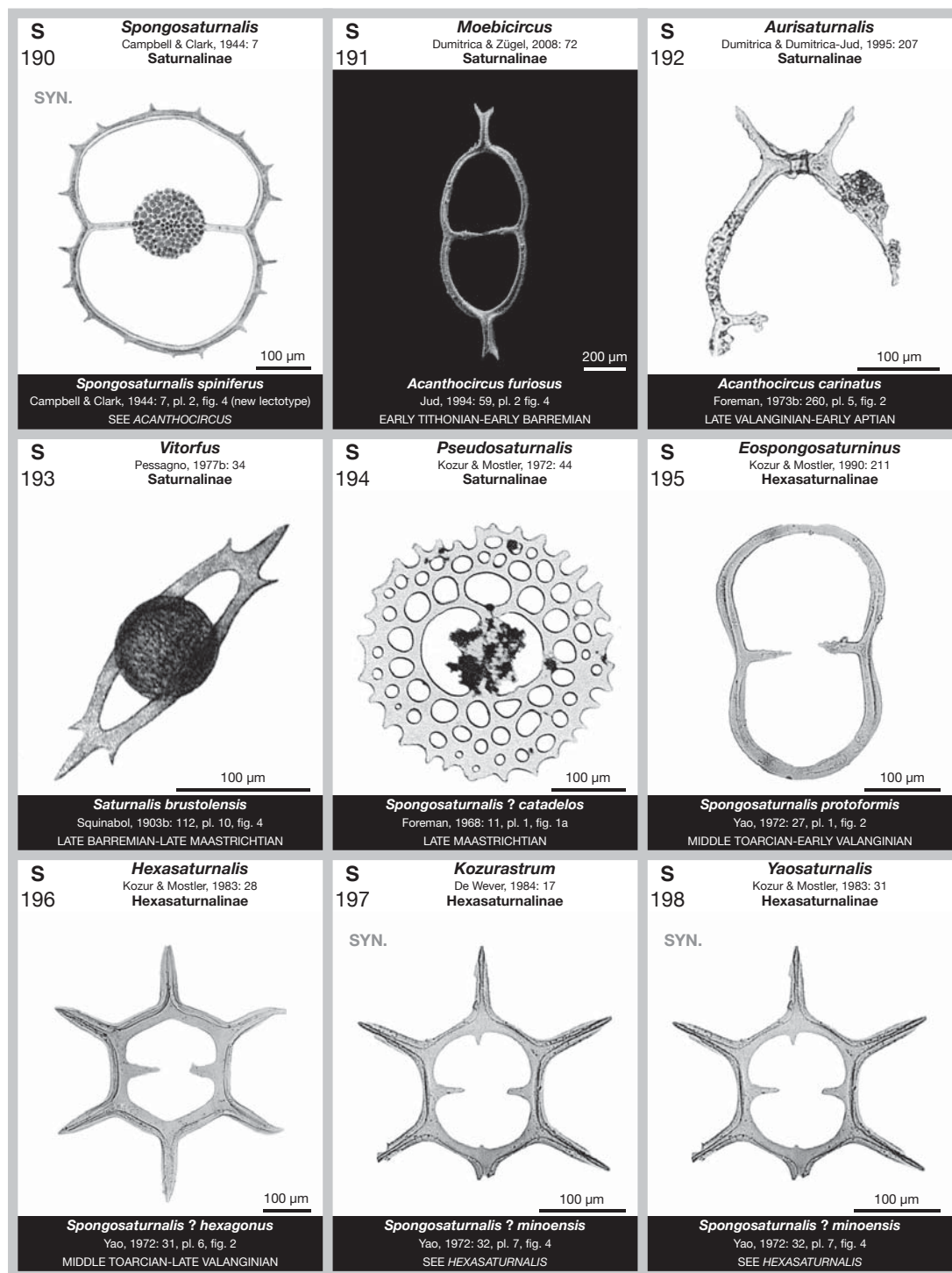
S 145 <i>Didactylum</i> Baumgartner, 1980: 288 Tritabidae SYN.  100 µm <i>Amphibrachium petersoni</i> Pessagno, 1971a: 21, pl. 19, fig. 8 SEE DITRABS	S 146 <i>Neoparonaella</i> Yang, 1993: 28 Tritabidae  100 µm <i>Neoparonaella delicata</i> Yang, 1993: 30, pl. 3, fig. 6 EARLY TITHONIAN-LATE MAASTRICHTIAN	S 147 <i>Monotrabs</i> Baumgartner, 1984: 773 Tritabidae?  100 µm <i>Monotrabs plenoides</i> Baumgartner, 1984: 773, pl. 6, fig. 1 LATE BAJOCIAN-EARLY OXFORDIAN
S 148 <i>Pterotrabs</i> Dumitrica, Baumgartner & Goričan, 1997: 173 Tritabidae?  100 µm <i>Pterotrabs arcuballista</i> Dumitrica et al., 1997: 176, pl. 1, fig. 5 EARLY CALLOVIAN-LATE OXFORDIAN	S 149 <i>Domuzdagia</i> Dumitrica & Zügel, 2002: 32 Domuzdagiidae  100 µm <i>Domuzdagia deweveri</i> Dumitrica & Zügel, 2002: 34, text-fig. 2.1 EARLY PLIENSCHACHIAN	S 150 <i>Miropyle</i> Dumitrica, 1988: 183 Miropylidae  50 µm <i>Miropyle mirabilis</i> Dumitrica, 1988: 183, pl. 1, fig. 6 EARLY CAMPANIAN-LATE MAASTRICHTIAN
S 151 <i>Larnacopylomma</i> Dumitrica, 1989: 249 Larnacillidae  50 µm <i>Larnacopylomma primigenium</i> Dumitrica, 1989: 250, pl. 9, fig. 5 LATE CENOMANIAN	S 152 <i>Spongopyle</i> Dreyer, 1889: 118 Spongodiscidae  ~100 µm <i>Spongopyle setosa</i> Dreyer, 1889: 119, pl. 7, fig. 97 EARLY CAMPANIAN-RECENT	S 153 <i>Spongodiscus</i> Ehrenberg, 1854b: 237 Spongodiscidae  ~100 µm <i>Spongodiscus resurgens</i> Ehrenberg, 1854b: 246 (unfigured), original drawing LATE CAMPANIAN-RECENT

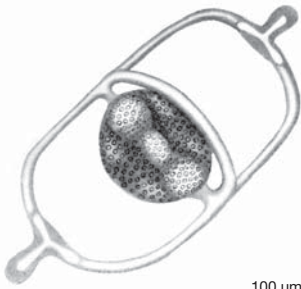
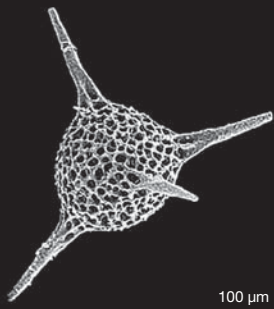
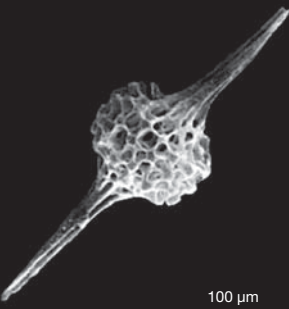
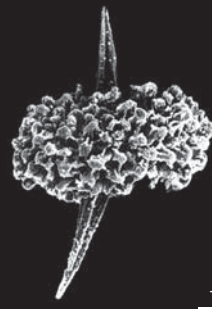
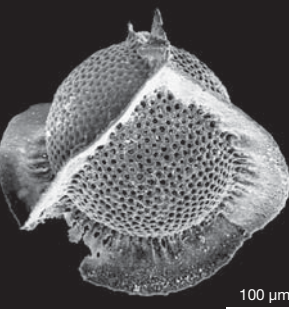
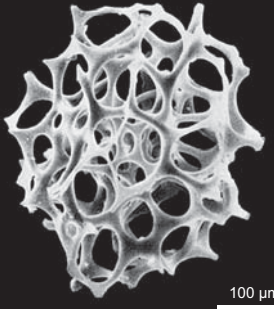
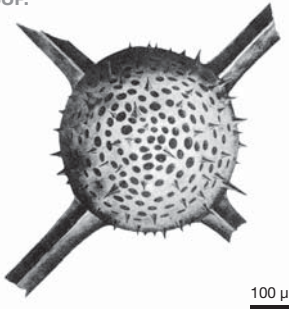


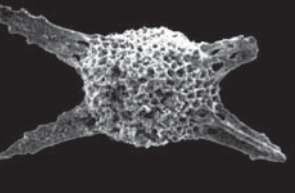
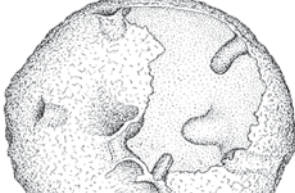
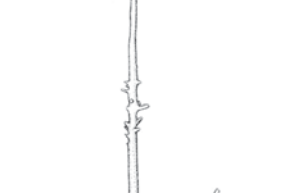
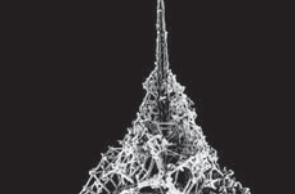
S 163 <i>Bernoullius</i> Baumgartner, 1984: 759 Bernoulliidae  <i>Eucyrtis ? dicera</i> Baum. in Baumgartner et al., 1980: 54, pl. 3, fig. 16 EARLY TOARCIC-EARLY APTIAN 100 µm	S 164 <i>Spongiostoma</i> Carter in Carter et al., 1988: 46 Bernoulliidae SYN.  <i>Spongiostoma saccideon</i> Carter in Carter et al., 1988: 46, pl. 12, fig. 4 SEE BERNOULLIUS 100 µm	S 165 <i>Teichertus</i> Hull, 1997: 76 Lithelidae  <i>Orbiculiforma ? heliotropica</i> Baumgartner, 1995: 352, pl. 3204, fig. 1 EARLY BAJOCIAN-EARLY TITHONIAN 100 µm
S 166 <i>Phaseliforma</i> Pessagno, 1972: 274 Phaseliformidae  <i>Phaseliforma carinata</i> Pessagno, 1972: 274, pl. 22, fig. 1 EARLY HAUTERIVIAN-EARLY PALEOCENE 100 µm	S 167 <i>Parvicuspis</i> Pessagno, 1972: 278 Phaseliformidae  <i>Parvicuspis shastaensis</i> Pessagno, 1972: 279, pl. 23, fig. 5 EARLY CONIACIAN-EARLY CAMPANIAN 100 µm	S 168 <i>Pyramispongia</i> Pessagno, 1973: 78 Pyramispongiidae  <i>Pyramispongia magnifica</i> Pessagno, 1973: 80, pl. 19, fig. 5 EARLY TITHONIAN-LATE PALEOCENE 100 µm
S 169 <i>Nodotetraedra</i> Steiger, 1992: 32 Pyramispongiidae SYN.  <i>Nodotetraedra barmsteinensis</i> Steiger, 1992: 33, pl. 4, fig. 9 SEE PYRAMISPONGIA 100 µm	S 170 <i>Patellula</i> Kozlova in Petrushevskaya & Kozlova, 1972: 527 Sponguridae  <i>Stylospongia planoconvexa</i> Pessagno, 1963: 199, pl. 3, fig. 6 EARLY CENOMANIAN-LATE CAMPANIAN 100 µm	S 171 <i>Prunobrachium</i> Kozlova in Kozlova & Gorbovetz, 1966: 65 Sponguridae SUP.  <i>Spongoprimum crassum</i> Lipman, 1952: 29, pl. 1, fig. 11 LATE CAMPANIAN-LATE MAASTRICHTIAN 100 µm

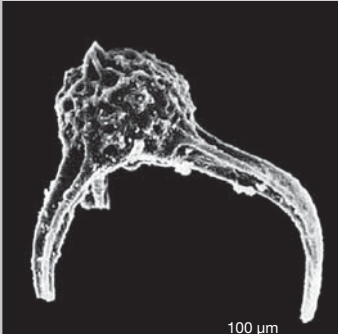
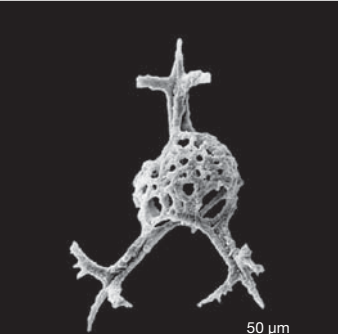
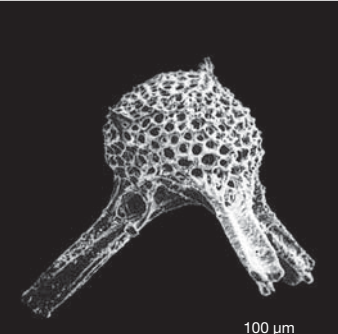
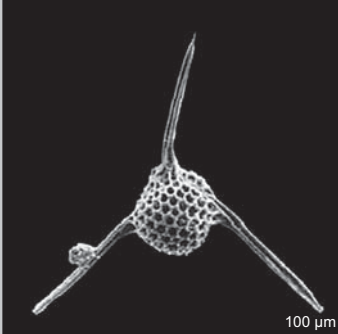
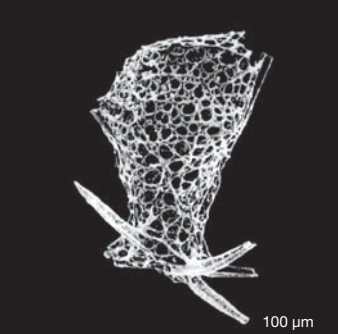
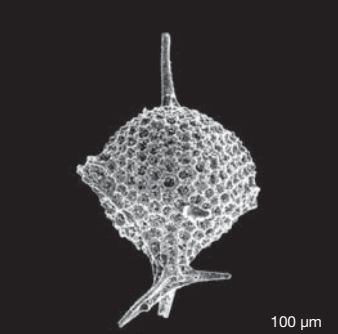
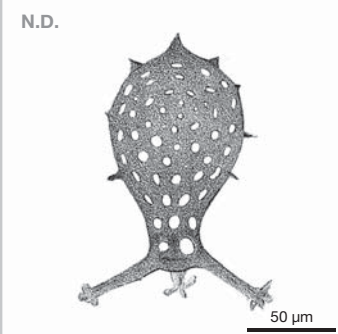
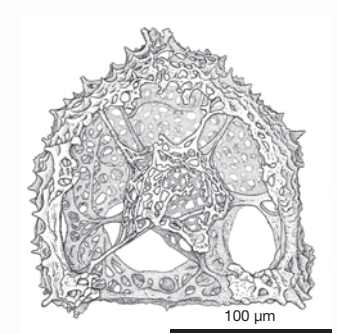


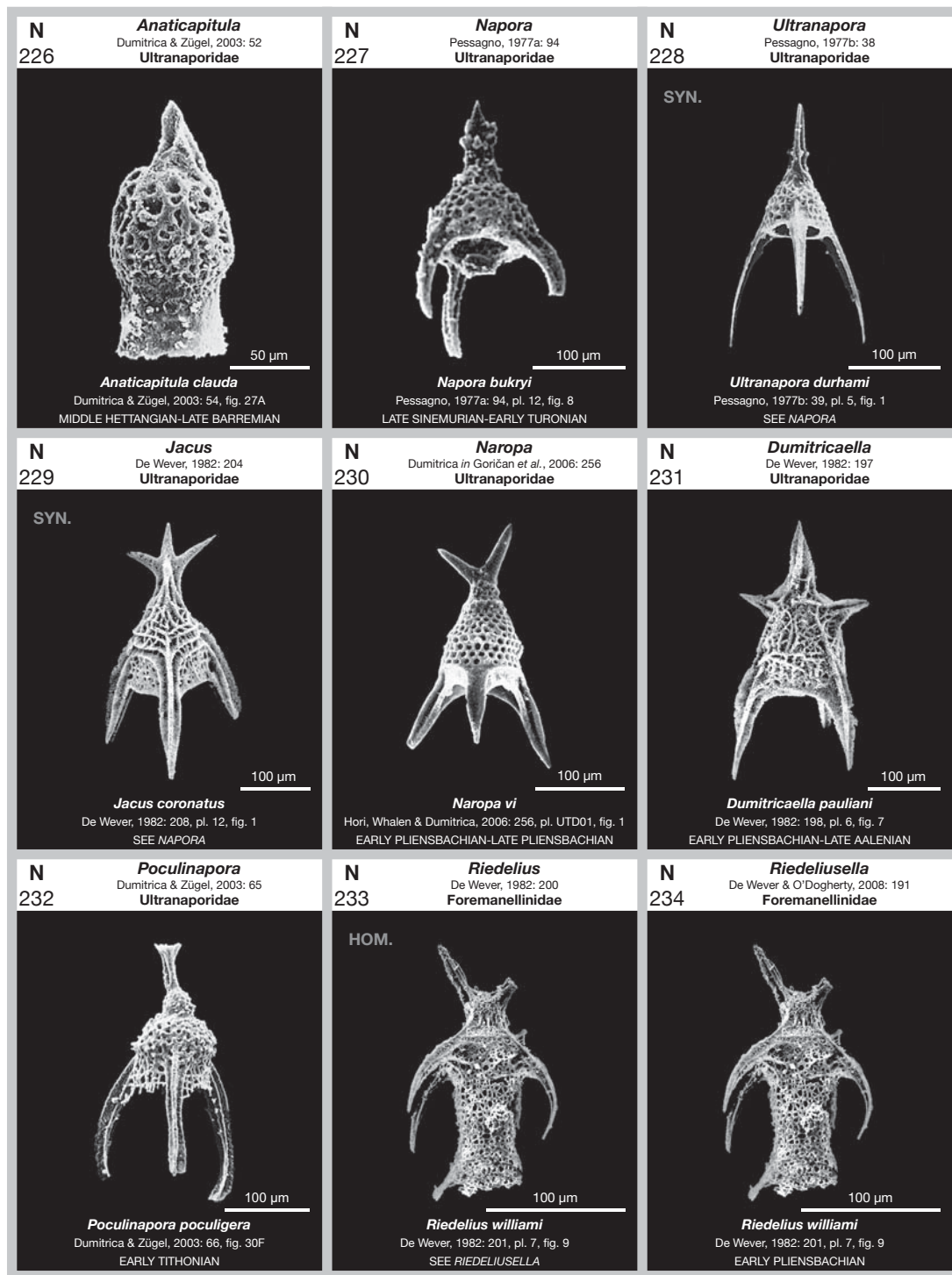
S 181 <i>Spinoellipsella</i> Kozur & Mostler, 1990: 212 Parasaturnalinae SYN.  100 µm <i>Spinoellipsella densispinosa</i> Kozur & Mostler, 1990: 212, pl. 1, fig. 4 SEE <i>PSEUDACANTHOCIRCUS</i>	S 182 <i>Stauromesosaturnalis</i> Kozur & Mostler, 1990: 201 Parasaturnalinae  100 µm <i>Stauromesosaturnalis schizospinosus</i> Kozur & Mostler, 1990: 202, pl. 3, fig. 3 LATE HETTANGIAN-EARLY CALLOVIAN	S 183 <i>Triacanthocircus</i> Kozur & Mostler, 1990: 212 Parasaturnalinae SYN.  100 µm <i>Triacanthocircus muelleri</i> Kozur & Mostler, 1990: 213, pl. 10, fig. 7 SEE <i>STAUROMESOSATURNALIS</i>
S 184 <i>Japonisaturnalis</i> Kozur & Mostler, 1972: 43 Parasaturnalinae  100 µm <i>Spongosaturnalis ? japonicus</i> Yao, 1972: 34, pl. 9, fig. 1 EARLY PUENSBACHIAN-LATE BAJOCIAN	S 185 <i>Parasaturnalis</i> Kozur & Mostler, 1972: 43 Parasaturnalinae SYN.  100 µm <i>Spongosaturnalis ? diplocyclis</i> Yao, 1972: 33, pl. 8, fig. 2 SEE <i>JAPONISATURNALIS</i>	S 186 <i>Mesosaturnalis</i> Kozur & Mostler, 1981: 57 Saturnalinae  100 µm <i>Palaeosaturnalis levis</i> Donofrio & Mostler, 1978: 36, pl. 2, fig. 1 MIDDLE NORIAN-LATE CONIACIAN
S 187 <i>Deflandrastrum</i> De Wever in De Wever & Origlia, 1984: 109 Saturnalinae SYN.  100 µm <i>Palaeosaturnalis levis</i> Donofrio & Mostler, 1978: 36, pl. 2, fig. 1 SEE <i>MESOSATURNALIS</i>	S 188 <i>Spongosaturninus</i> Campbell & Clark, 1944: 7 Saturnalinae  100 µm <i>Spongosaturninus ellipticus</i> Campbell & Clark, 1944: 8, pl. 1, fig. 16 (lectotype) EARLY TOARCIAN-EARLY PALEOCENE	S 189 <i>Acanthocircus</i> Squinabol, 1903b: 124 Saturnalinae SUP.  100 µm <i>Acanthocircus irregularis</i> Squinabol, 1903b: 125, pl. 9, fig. 6 EARLY BATHONIAN-LATE MAASTRICHTIAN

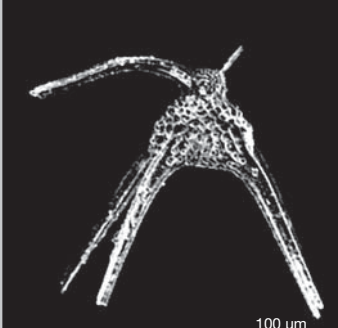
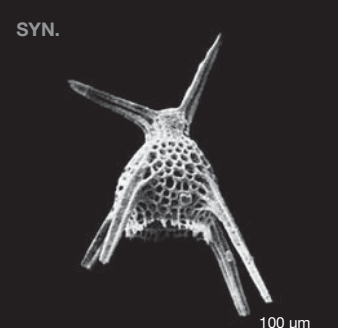
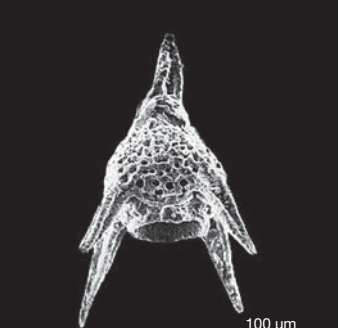
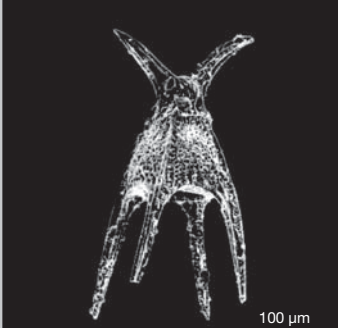
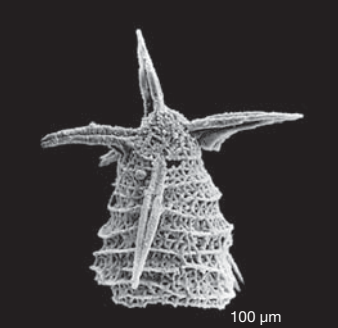
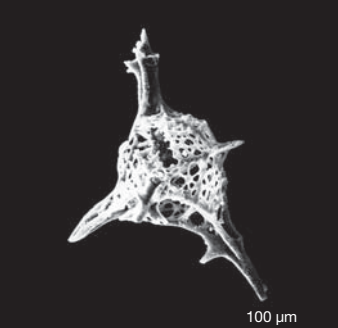
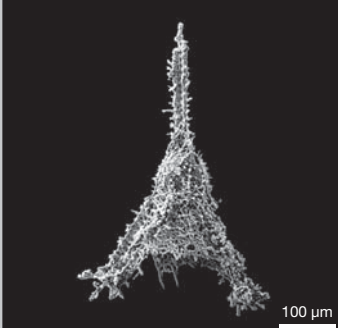
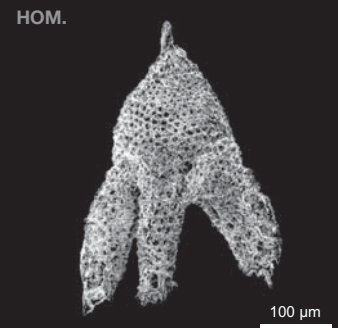
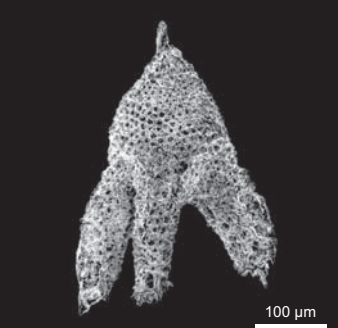


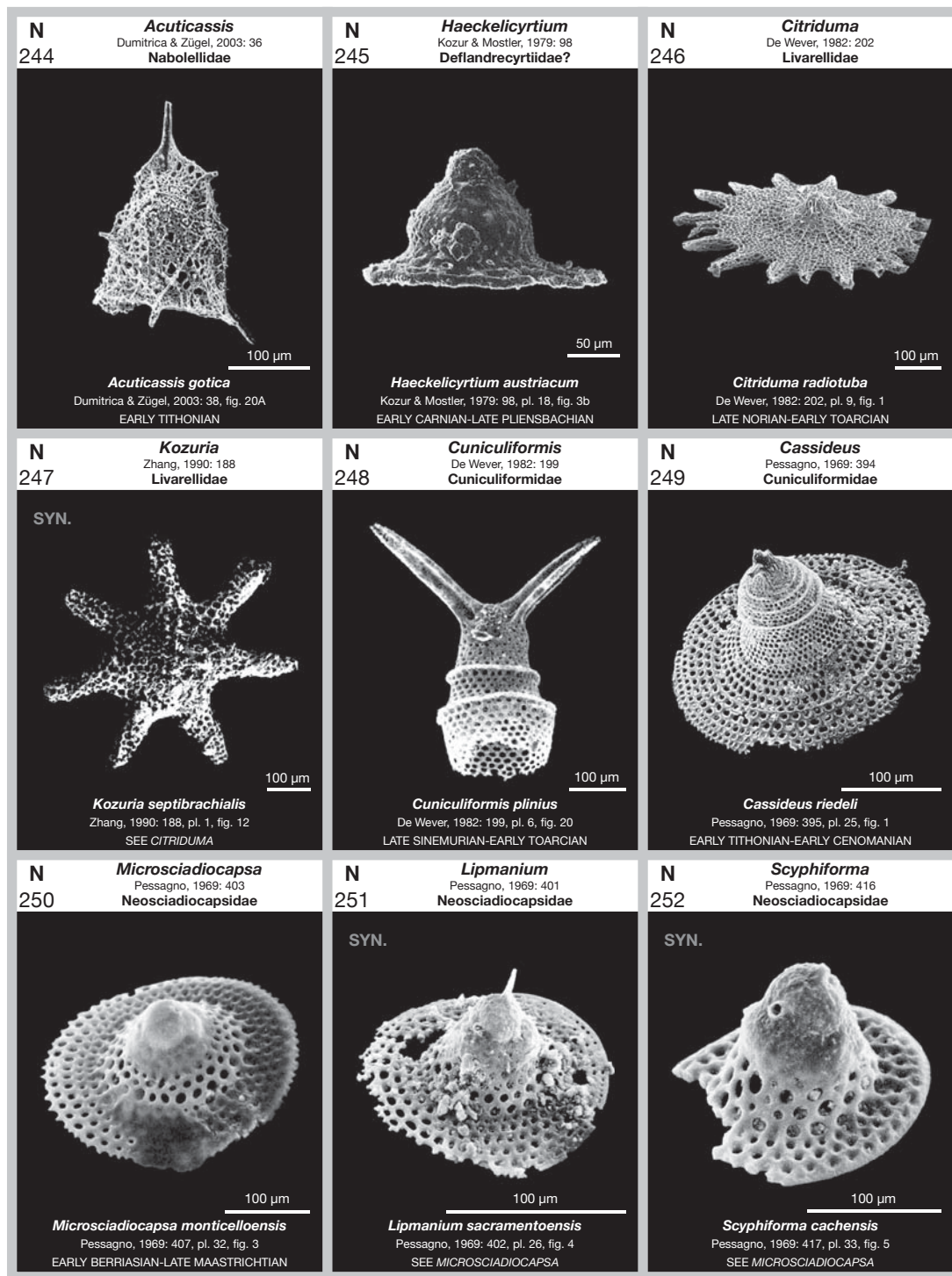
S 199 <i>Dicerosaturnalis</i> Dumitrica & Jud in O'Dogherty, 1994: 248 Hexasaturnalinae SUP.  100 µm <i>Saturnulus trizonalis</i> Rüst, 1898: 9, pl. 2, fig. 4 LATE BATHONIAN-EARLY ALBIAN	S 200 <i>Tipperella</i> Carter in Longridge et al., 2007: 163 Spumellaria incertae sedis  100 µm <i>Tipperella kennecottensis</i> Carter in Longridge et al., 2007: 163, pl. 2, fig. 7 LATE RHAETIAN-EARLY HETTANGIAN	S 201 <i>Danubea</i> Whalen & Carter in Carter et al., 1998: 40 Spumellaria incertae sedis  100 µm <i>Danubea howardi</i> Whalen & Carter in Carter et al., 1998: 40, pl. 5, fig. 2 EARLY HETTANGIAN-EARLY PLIENSCHACHIAN
S 202 <i>Diceratosphaera</i> Cordey, 1998: 97 Spumellaria incertae sedis SYN.  100 µm <i>Diceratosphaera spissa</i> Cordey, 1998: 97, pl. 22, fig. 12 SEE DANUBEA	S 203 <i>Cenolarcopyle</i> Tan Sin Hok, 1927: 37 Spumellaria incertae sedis  50 µm <i>Cenolarcopyle fragilis</i> Tan Sin Hok, 1927: 38, pl. 6, fig. 16 EARLY TOARCIAN-LATE BARREMIAN	S 204 <i>Mallanites</i> O'Dogherty, 1994: 376 Spumellaria incertae sedis  100 µm <i>Mallanites romanus</i> O'Dogherty, 1994: 376, pl. 74, fig. 6 MIDDLE ALBIAN-EARLY CENOMANIAN
S 205 <i>Pentaspheara</i> Squinabol, 1904: 193 Spumellaria incertae sedis  200 µm <i>Pentaspheara longispina</i> Squinabol, 1904: 193, pl. 5, fig. 1 LATE CENOMANIAN	S 206 <i>Peritviator</i> Pessagno, 1976: 45 Spumellaria incertae sedis  100 µm <i>Peritviator labyrinthi</i> Pessagno, 1976: 45, pl. 13, fig. 2 LATE CAMPANIAN-?LATE PALEOCENE	S 207 <i>Pseudoacanthospheara</i> O'Dogherty, 1994: 296 Spumellaria incertae sedis SUP.  100 µm <i>Staurosphaera magnifica</i> Squinabol, 1904: 191, pl. 3, fig. 1 LATE TITHONIAN-EARLY TURONIAN

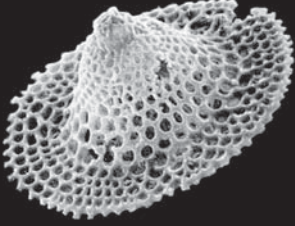
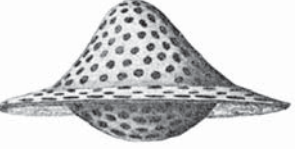
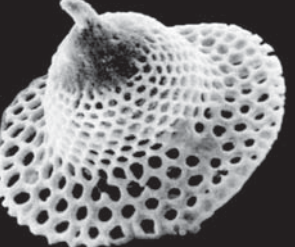
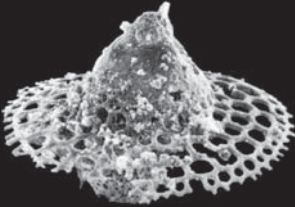
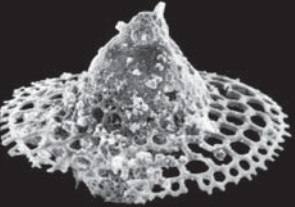
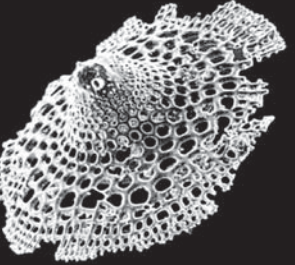
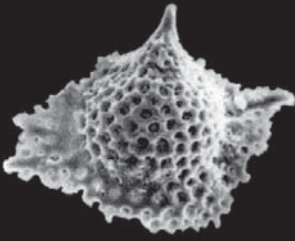
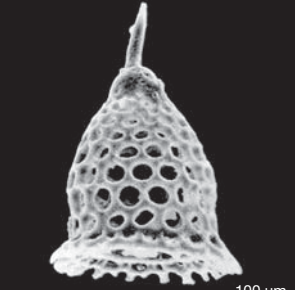
S 208 <i>Staurosphaeretta</i> Squinabol, 1904: 192 <i>Spumellaria incertae sedis</i>  100 µm <i>Staurosphaera hindei</i> Squinabol, 1904: 191, pl. 3, fig. 3 LATE APTIAN-EARLY TURONIAN	S 209 <i>Tetracanthellipsis</i> Squinabol, 1903a: 129 <i>Spumellaria incertae sedis</i>  100 µm <i>Tetracanthellipsis euganeus</i> Squinabol, 1903b: 117, pl. 8, fig. 9 EARLY CENOMANIAN-EARLY TURONIAN	S 210 <i>Spongulus</i> Marcucci & Salvini, 1994: 29 <i>Spumellaria incertae sedis</i> SYN.  100 µm <i>Spongulus quadrirostratus</i> Marcucci & Salvini, 1994: 30, pl. 2, fig. 1 SEE <i>TETRACANTHELLIPSIS</i>
S? 211 <i>Cenosphaerocapsula</i> Dumitrica, 1999: 164 Central capsules  100 µm <i>Cenosphaerocapsula neagui</i> Dumitrica, 1999: 164, pl. 1, fig. 1 LADINIAN-LATE KIMMERIDGIAN	N 212 <i>Tetraplecta</i> Haeckel, 1881: 424 Plagiacanthinae  100 µm <i>Tetraplecta pinigera</i> Haeckel, 1887: 924, pl. 91, fig. 8 ?EARLY BAJOCIAN-RECENT	N 213 <i>Verticiplagia</i> Dumitrica, 2004: 208 Ximolzasinae  50 µm <i>Tetrachiplagia verticillata</i> Dumitrica, 1982b: 413, pl. 2, fig. 1 LATE OLENEKIAN-EARLY TITHONIAN
N 214 <i>Tetrarchiplagia</i> Dumitrica, 1982b: 412 Ximolzasinae  50 µm <i>Tetrarchiplagia arborescens</i> Dumitrica, 1982b: 412, pl. 2, fig. 1 MIDDLE ANISIAN-EARLY TITHONIAN	N 215 <i>Arachnopecta</i> Dumitrica & Zügel, 2003: 14 Ximolzasinae  100 µm <i>Arachnopecta architectonica</i> Dumitrica & Zügel, 2003: 14, fig. 8B EARLY TITHONIAN	N 216 <i>Rhabdolithis</i> Ehrenberg, 1847b: 50 Ximolzasinae  100 µm <i>Rhabdolithis pipa</i> Ehrenberg, 1854c, pl. 36, fig. 59B EARLY CONIACIAN-MIDDLE EOCENE

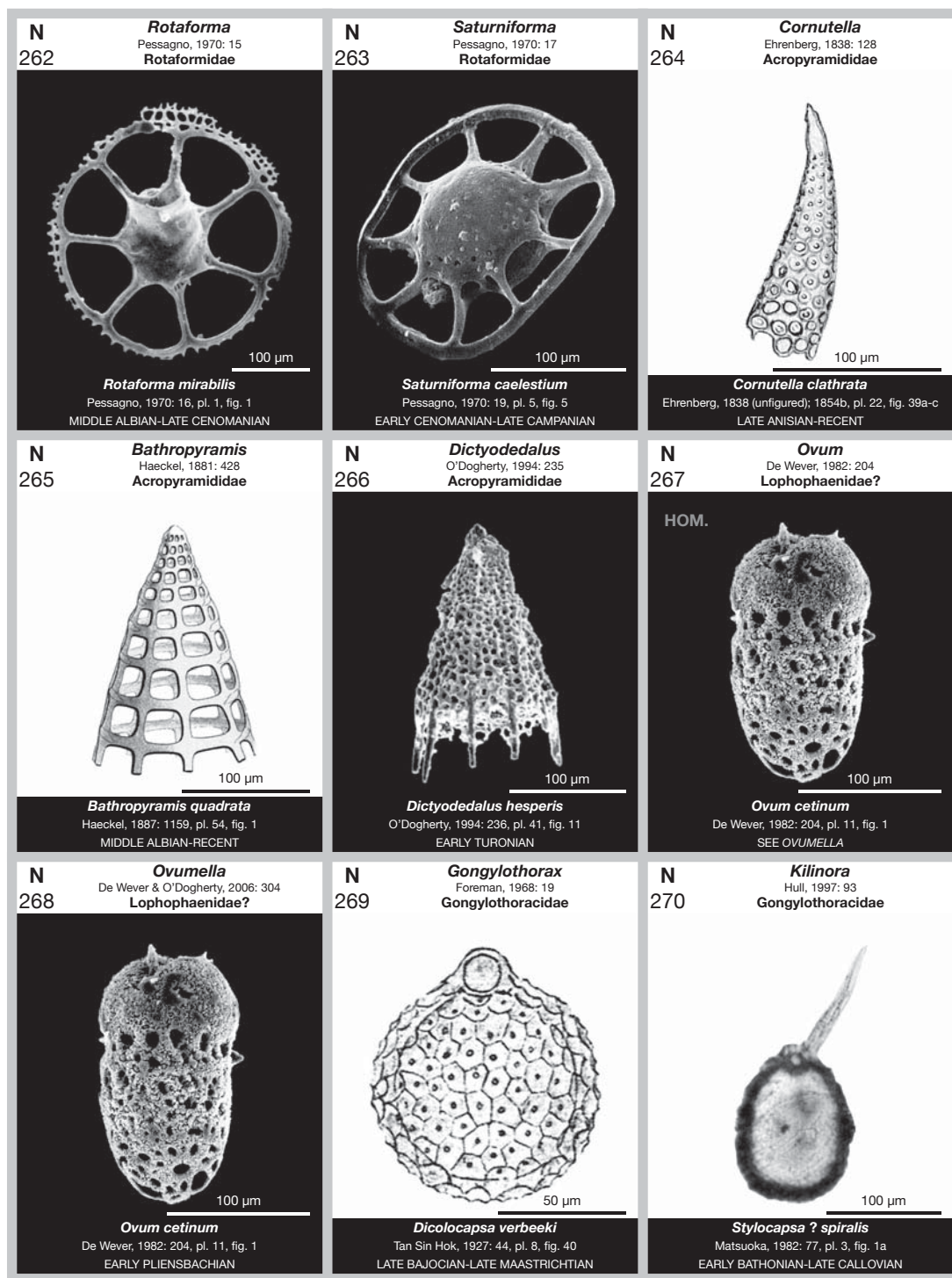
N 217 <i>Saitoum</i> Pessagno, 1977a: 96 Poulpidae  100 µm <i>Saitoum pagei</i> Pessagno, 1977a: 98, pl. 12, fig. 12 LATE HETTANGIAN-LATE BARREMIAN	N 218 <i>Saitulpus</i> Dumitrica & Zügel, 2003: 30 Poulpidae  50 µm <i>Saitulpus retrospina</i> Dumitrica & Zügel, 2003: 31, fig. 17A EARLY TITHONIAN	N 219 <i>Pseudopoulpus</i> Takemura, 1986: 39 Tripedurnulidae  100 µm <i>Pseudopoulpus yamatoensis</i> Takemura, 1986: 40, pl. 1, fig. 1 EARLY PLIENSCHACHIAN-EARLY TITHONIAN
N 220 <i>Turanta</i> Pessagno & Blome, 1982: 296 Tripedurnulidae  100 µm <i>Turanta capsensis</i> Pessagno & Blome, 1982: 297, pl. 4, fig. 3 LATE TOARCIAN-EARLY OXFORDIAN	N 221 <i>Takoum</i> Takemura, 1986: 66 Tripedurnulidae  100 µm <i>Takoum hexagonum</i> Takemura, 1986: 66, pl. 12, fig. 5 LATE AALENIAN-EARLY TITHONIAN	N 222 <i>Tridentocyrtis</i> Steiger & Steiger, 1994: 460 Tripedurnulidae  100 µm <i>Tridentocyrtis groissi</i> Steiger & Steiger, 1994: 460, pl. 2, fig. 3 LATE KIMMERIDGIAN-EARLY TITHONIAN
N 223 <i>Tripodocorys</i> Haeckel, 1881: 427 Tripedurnulidae N.D.  50 µm <i>Tripodocorys fischeri</i> Rüst, 1885: 304, pl. 35 (10), fig. 19 NOMEN DUBIUM	N 224 <i>Hexapylocapsa</i> Dumitrica & Zügel, 1998: 252 Hexapylocapsidae  100 µm <i>Hexapylocapsa anachoreta</i> Dumitrica & Zügel, 1998: 254, fig. 3 EARLY TITHONIAN	N 225 <i>Bipedis</i> De Wever, 1982: 192 Ultranaporidae  100 µm <i>Bipedis calvabovis</i> De Wever, 1982: 193, pl. 2, fig. 7 LATE NORIAN-LATE PLIENSCHACHIAN

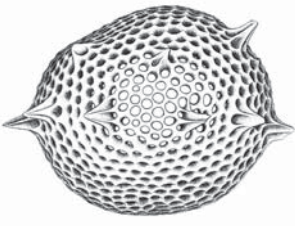
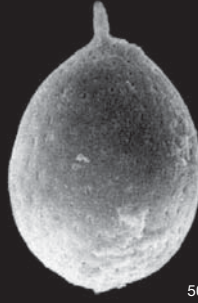
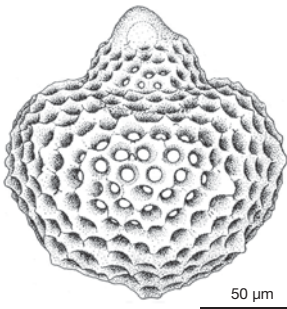
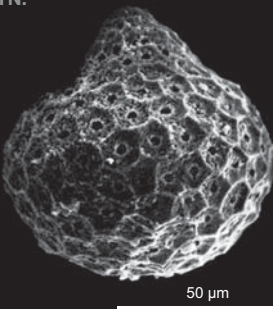
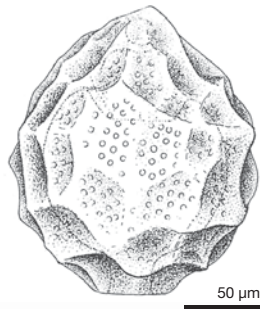
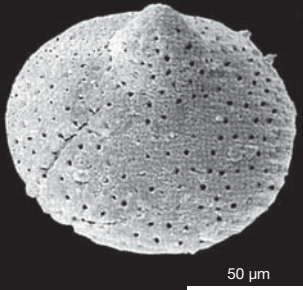


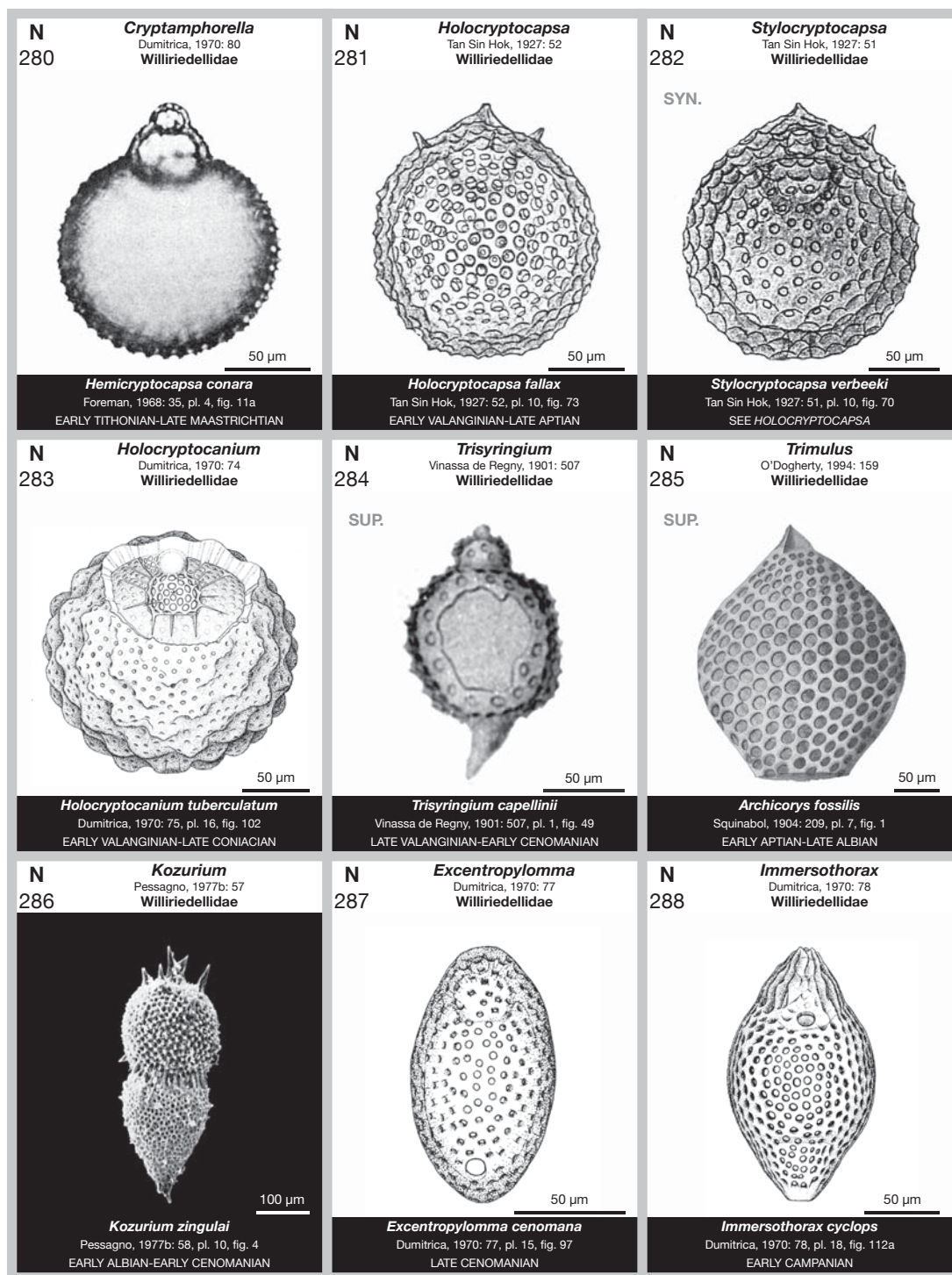
N 235 <i>Diceratigalea</i> Takemura & Nakaseko, 1982: 461 Foremanellinidae  <i>Diceratigalea hemisphaera</i> Takemura & Nakaseko, 1982: 461, pl. 72, fig. 1a EARLY PLIENSCHACHIAN-LATE AALENIAN 100 µm	N 236 <i>Rolimbus</i> Pessagno, Whalen & Yeh, 1986: 26 Foremanellinidae SYN.  <i>Rolimbus mirus</i> Pessagno, Whalen & Yeh, 1986: 28, pl. 5, fig. 1 SEE DICERATIGALEA 100 µm	N 237 <i>Farcus</i> Pessagno, Whalen & Yeh, 1986: 23 Foremanellinidae  <i>Farcus graylockensis</i> Pessagno, Whalen & Yeh, 1986: 24, pl. 2, fig. 6 LATE HETTANGIAN-LATE AALENIAN 100 µm
N 238 <i>Hilarisirex</i> Takemura & Nakaseko, 1982: 458 Foremanellinidae  <i>Hilarisirex quadrangularis</i> Takemura & Nakaseko, 1982: 458, pl. 70, fig. 1a EARLY TOARCIAN-LATE OXFORDIAN 100 µm	N 239 <i>Sanniopileus</i> Dumitrica & Zügel, 2003: 43 Foremanellinidae  <i>Sanniopileus stultus</i> Dumitrica & Zügel, 2003: 44, fig. 23A EARLY TITHONIAN 100 µm	N 240 <i>Carterwhalenia</i> Dumitrica in Gorican et al., 2006: 100 Sethoperidae  <i>Saitoum ? minai</i> Whalen & Carter, 2002: 130, pl. 12, fig. 7 EARLY PLIENSCHACHIAN 100 µm
N 241 <i>Turriseiffelus</i> Dumitrica & Zügel, 2003: 18 Sethoperidae  <i>Turriseiffelus invalidus</i> Dumitrica & Zügel, 2003: 20, fig. 12A LATE BAJOCIAN-EARLY TITHONIAN 100 µm	N 242 <i>Pogonias</i> O'Dogherty, 1994: 172 Sethoperidae? HOM.  <i>Pogonias prodromus</i> O'Dogherty, 1994: 172, pl. 24, fig. 10 SEE POGONISELLA 100 µm	N 243 <i>Pogonisella</i> O'Dogherty & De Wever, 2007b: 1543 Sethoperidae?  <i>Pogonias prodromus</i> O'Dogherty, 1994: 172, pl. 24, fig. 10 MIDDLE ALBIAN-EARLY TURONIAN 100 µm

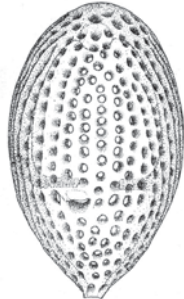


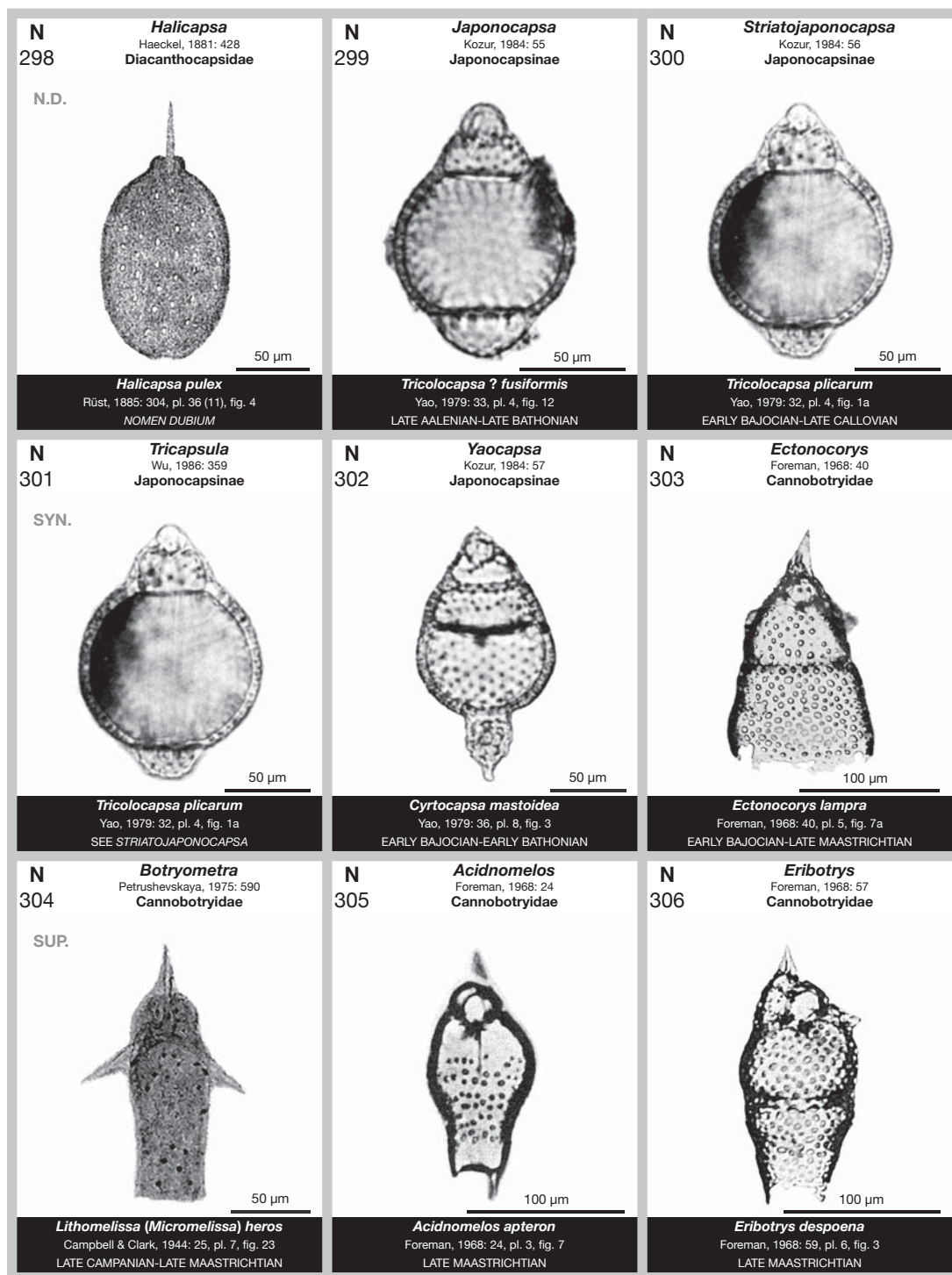
N 253 <i>Squinabolella</i> Pessagno, 1969: 418 Neosciadiocapsidae SYN.  100 µm <i>Squinabolella putahensis</i> Pessagno, 1969: 418, pl. 33, fig. 6 SEE MICROSCIADIOPCAPSA	N 254 <i>Sciadiocapsa</i> Squinabol, 1904: 211 Neosciadiocapsidae N.D.  100 µm <i>Sciadiocapsa euganea</i> Squinabol, 1904: 211, pl. 7, fig. 5 NOMEN DUBIUM	N 255 <i>Neosciadiocapsa</i> Pessagno, 1969: 409 Neosciadiocapsidae  100 µm <i>Neosciadiocapsa diabloensis</i> Pessagno, 1969: 410, pl. 35, fig. 6 EARLY ALBIAN-LATE CAMPANIAN
N 256 <i>Ewingella</i> Pessagno, 1969: 398 Neosciadiocapsidae HOM.  100 µm <i>Ewingella jonesi</i> Pessagno, 1969: 401, pl. 28, fig. 2 SEE EWINGIUM	N 257 <i>Ewingium</i> Pessagno, 1976: 46 Neosciadiocapsidae SYN.  100 µm <i>Ewingium jonesi</i> Pessagno, 1969: 401, pl. 28, fig. 2 SEE NEOSCIADIOPCAPSA	N 258 <i>Petasiforma</i> Pessagno, 1969: 411 Neosciadiocapsidae SYN.  100 µm <i>Petasiforma foremanae</i> Pessagno, 1969: 411, pl. 23, fig. 8 SEE NEOSCIADIOPCAPSA
N 259 <i>Krempelinella</i> Empson-Morin, 1981: 265 Neosciadiocapsidae  100 µm <i>Krempelinella kronenartiga</i> Empson-Morin, 1981: 265, pl. 9, 1A LATE CAMPANIAN	N 260 <i>Coniforma</i> Pessagno, 1969: 397 Theopillidae  100 µm <i>Coniforma antiochensis</i> Pessagno, 1969: 398, pl. 37, 11 (paratype) LATE CONIACIAN-LATE PALEOCENE	N 261 <i>Clathrocyclas</i> Haeckel, 1881: 434 Theopillidae  25 µm <i>Clathrocyclas principessa</i> Haeckel, 1887: 1386, pl. 74, fig. 7 LATE MAASTRICHTIAN-RECENT

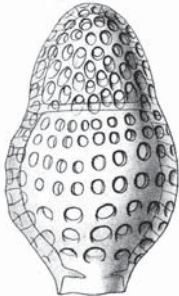


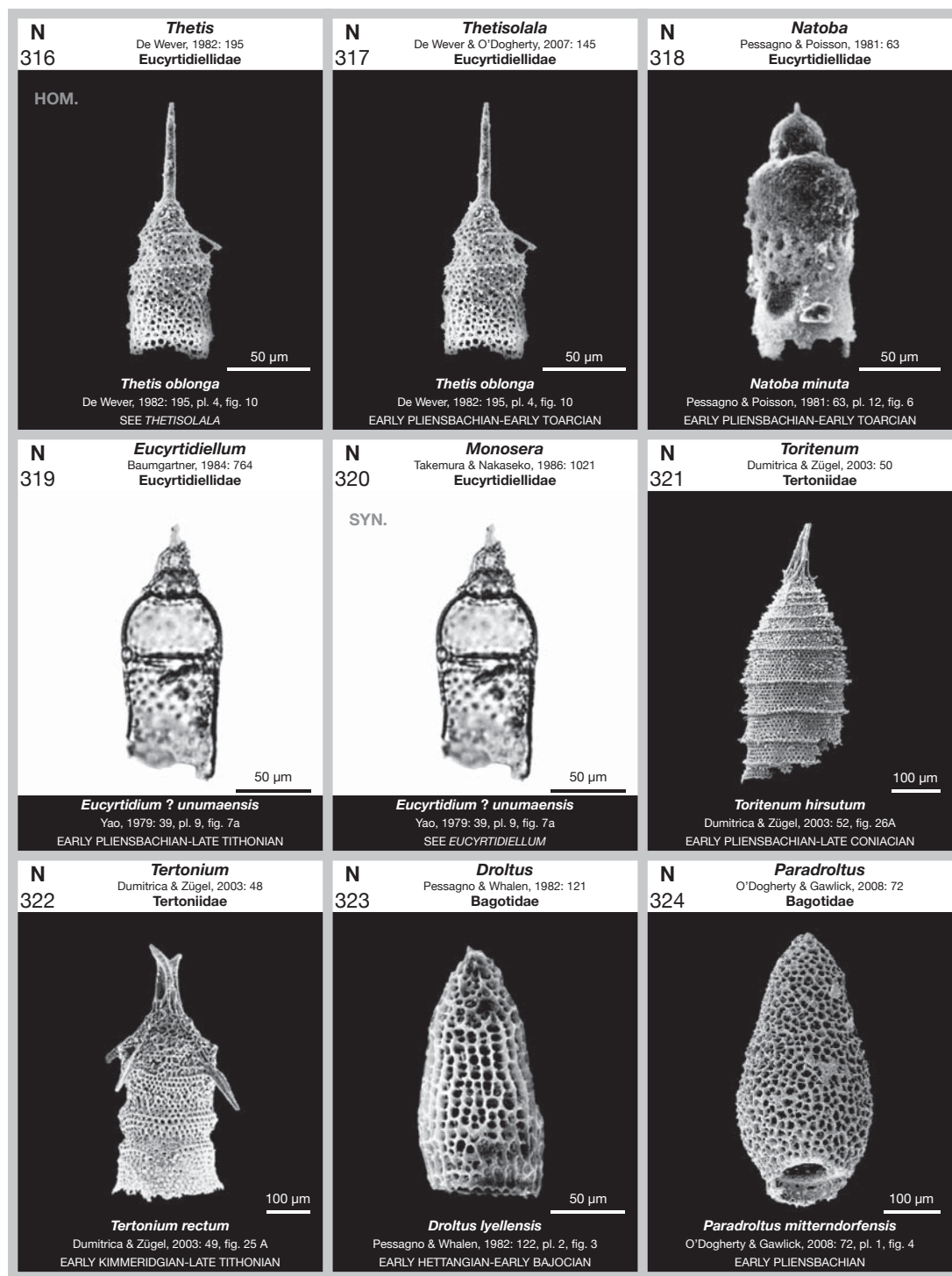
N 271 <i>Plicaforacapsa</i> O'Dogherty, Goričan & Dumitrica, 2006: 443 Gongylothoracidae  50 µm <i>Stylocapsa catenarum</i> Matsuoka, 1982: 75, pl. 2, fig. 1a LATE BATHONIAN-LATE CALLOVIAN	N 272 <i>Heliocryptocapsa</i> Dumitrica, 1970: 59 Gongylothoracidae  100 µm <i>Heliocryptocapsa neagui</i> Dumitrica, 1970: 59, pl. 3, fig. 14 LATE CENOMANIAN-EARLY CAMPANIAN	N 273 <i>Homeoarchicorys</i> Empson-Morin, 1981: 278 Gongylothoracidae  50 µm <i>Homeoarchicorys eiformigum</i> Empson-Morin, 1981: 278, pl. 12, fig. 1A LATE CAMPANIAN
N 274 <i>Zhamoidellum</i> Dumitrica, 1970: 79 Williriedellidae  50 µm <i>Zhamoidellum ventricosum</i> Dumitrica, 1970: 79, pl. 9, fig. 55a ?EARLY PLIENSCHACHIAN-LATE TITHONIAN	N 275 <i>Complexapora</i> Kiessling in Kiessling & Zeiss, 1992: 191 Williriedellidae SYN.  50 µm <i>Complexapora tirolica</i> Kiessling in Kiessling & Zeiss, 1992: 191, pl. 1, fig. 3 SEE ZHAMOIDELLUM	N 276 <i>Hemicryptocapsa</i> Tan Sin Hok, 1927: 50 Williriedellidae  50 µm <i>Hemicryptocapsa capita</i> Tan Sin Hok, 1927: 51, pl. 9, fig. 67 LATE AALENIAN-LATE BARREMIAN
N 277 <i>Praezhamoidellum</i> Kozur, 1984: 52 Williriedellidae SYN.  50 µm <i>Praezhamoidellum yaoi</i> Kozur, 1984: 53, pl. 3, fig. 3a SEE HEMICRYPTOCAPSA	N 278 <i>Williriedellum</i> Dumitrica, 1970: 69 Williriedellidae  50 µm <i>Williriedellum crystallinum</i> Dumitrica, 1970: 69, pl. 10, fig. 60a LATE AALENIAN-EARLY APTIAN	N 279 <i>Quarkus</i> Pessagno, Blome & Hull, 1993: 159 Williriedellidae  50 µm <i>Quarkus madstonensis</i> Pessagno, Blome & Hull, 1993: 159, pl. 8, fig. 15 LATE BATHONIAN-LATE CALLOVIAN

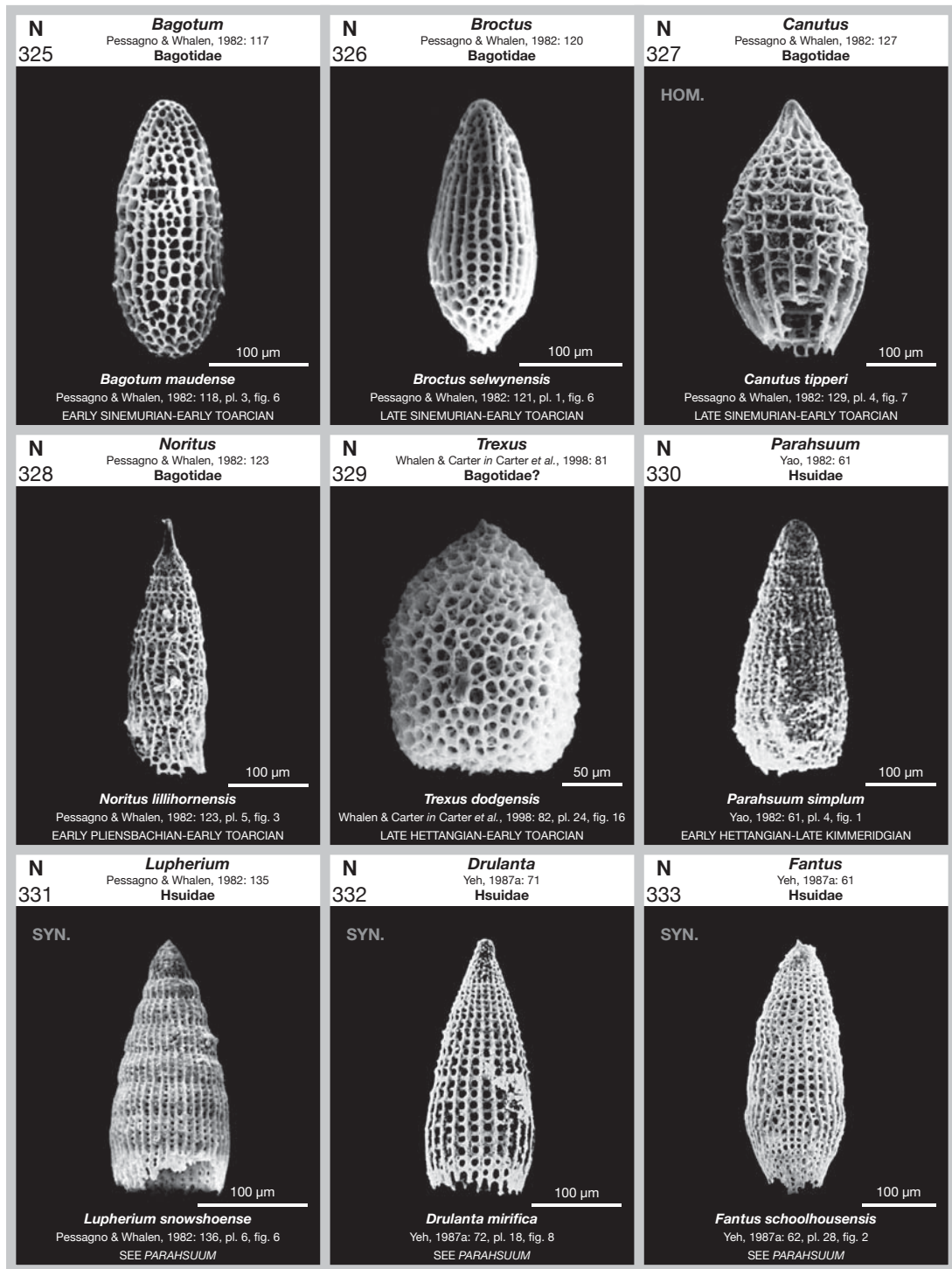


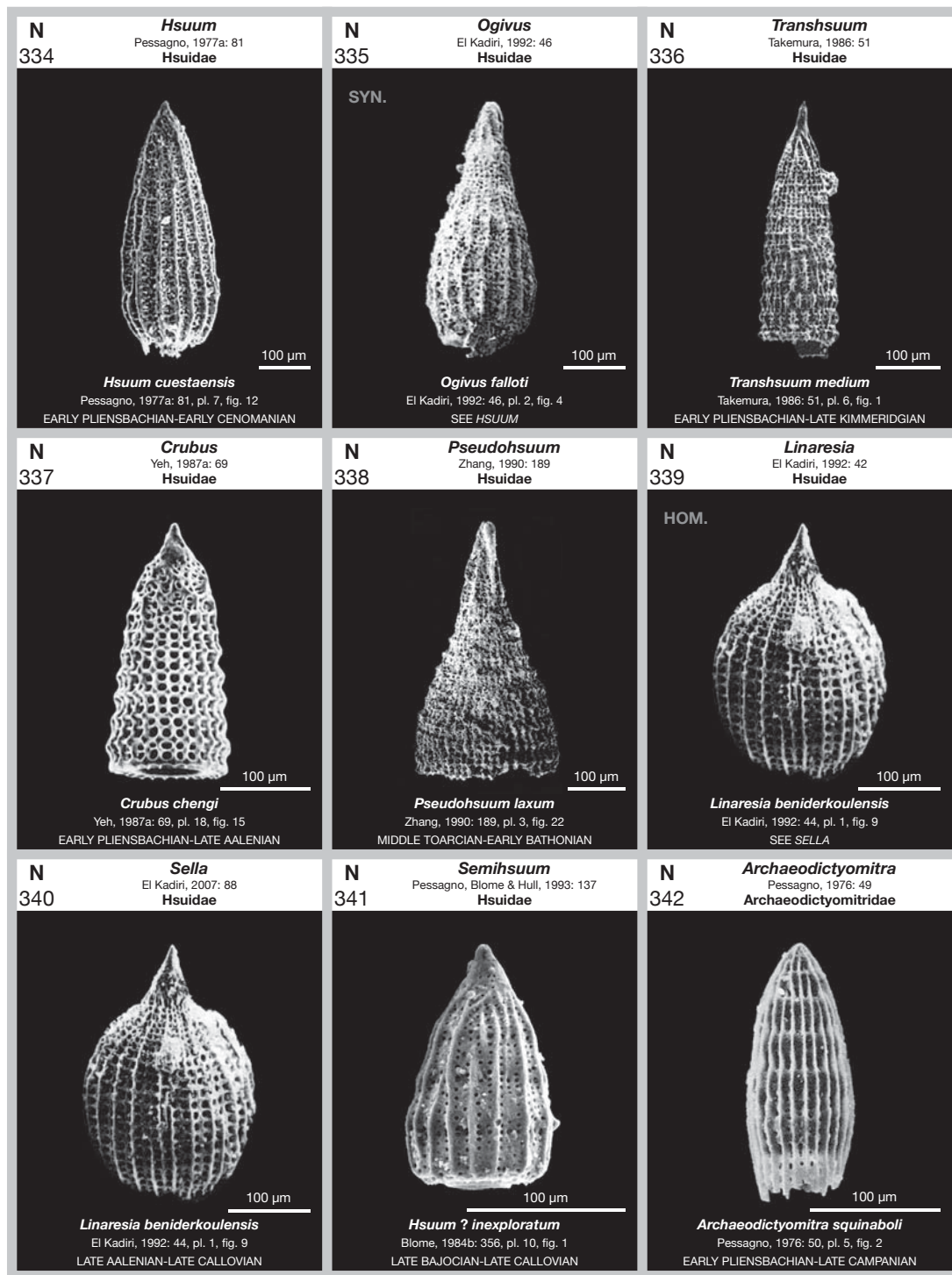
N 289 <i>Theocapsomella</i> O'Dogherty, Goričan & Dumitrica, 2006: 454 Diacanthocapsidae  50 µm <i>Theocapsomma cordis</i> Kocher, 1981: 100, pl. 17, fig. 3 EARLY BATHONIAN-EARLY BERRIASIAN	N 290 <i>Diacanthocapsa</i> Squinabol, 1903a: 129 Diacanthocapsidae  50 µm <i>Diacanthocapsa euganea</i> Squinabol, 1903b: 133, pl. 8, fig. 26 EARLY APTIAN-LATE MAASTRICHTIAN	N 291 <i>Novodiacanthocapsa</i> Empson-Morin, 1981: 268 Diacanthocapsidae SYN.  50 µm <i>Dicolocapsa euganea</i> Squinabol, 1904: 218, pl. 7, fig. 18 SEE DIACANTHOCAPSA
N 292 <i>Eastonerius</i> Empson-Morin, 1981: 266 Diacanthocapsidae SYN.  50 µm <i>Diacanthocapsa acuminata</i> Dumitrica, 1970: 65, pl. 7, fig. 3 SEE DIACANTHOCAPSA	N 293 <i>Annikaella</i> De Wever in De Wever et al., 1988: 168 Diacanthocapsidae  50 µm <i>Annikaella omanensis</i> De Wever in De Wever et al., 1988: 168, pl. 2, fig. 1 LATE CONIACIAN-LATE SANTONIAN	N 294 <i>Myllocercion</i> Foreman, 1968: 37 Diacanthocapsidae  50 µm <i>Myllocercion acineton</i> Foreman, 1968: 37, pl. 5, fig. 11b EARLY CAMPANIAN-EARLY PALEOCENE
N 295 <i>Schadelfusslerus</i> Empson-Morin, 1981: 276 Diacanthocapsidae SYN.  50 µm <i>Schadelfusslerus echus</i> Empson-Morin, 1981: 276, pl. 10, fig. 6A SEE MYLLOCERCION	N 296 <i>Kuppella</i> Empson-Morin, 1981: 274 Diacanthocapsidae SYN.  50 µm <i>Tricolocapsa (Tricolocapsium) granti</i> Campbell & Clark, 1944: 35, pl. 7, fig. 37 (new lectotype) SEE DIACANTHOCAPSA	N 297 <i>Calyptocoryphe</i> Foreman, 1968: 36 Diacanthocapsidae  50 µm <i>Calyptocoryphe cranaa</i> Foreman, 1968: 36, pl. 4, fig. 10c LATE MAASTRICHTIAN

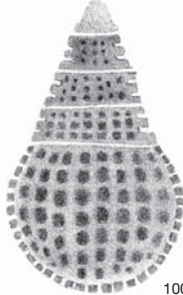


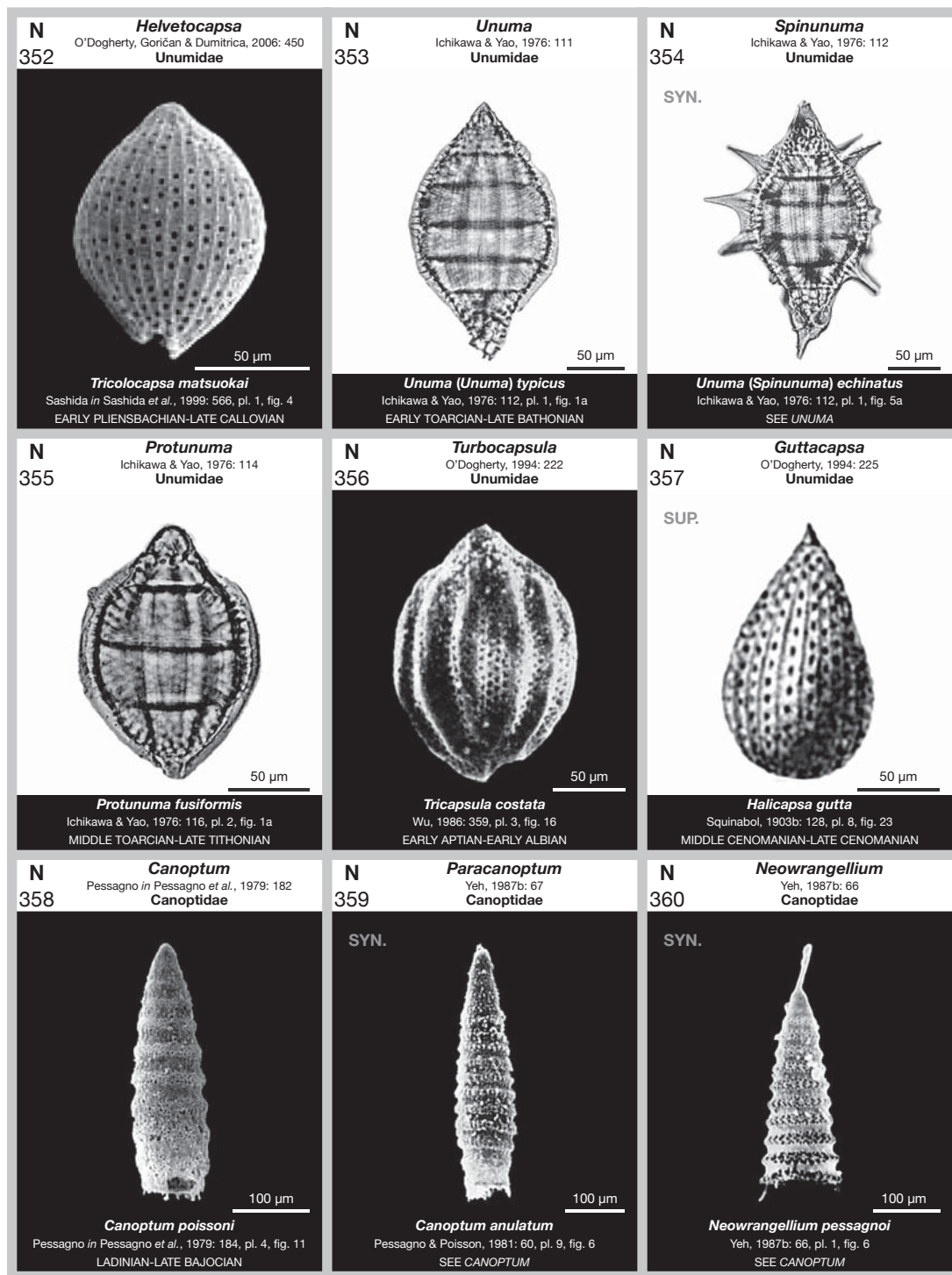
N 307 <i>Botryocylinder</i> Petrushevskaya, 1975: 588 Cannobotryidae  100 µm	N 308 <i>Cornutovum</i> Foreman, 1968: 39 Cannobotryidae  50 µm	N 309 <i>Solenotryma</i> Foreman, 1968: 33 Cannobotryidae?  100 µm
<i>Bisphaerocephalina ? apimelos</i> Foreman, 1968: 61, pl. 6, fig. 1 LATE MAASTRICHTIAN	<i>Cornutovum levigatum</i> Foreman, 1968: 39, pl. 5, fig. 10a LATE MAASTRICHTIAN	<i>Solenotryma dacryodes</i> Foreman, 1968: 33, pl. 4, fig. 8 LATE BAJOCIAN-EARLY PALEOCENE
N 310 <i>Dictyoprora</i> Haeckel, 1881: 430 Artostrobiidae SUP.  50 µm	N 311 <i>Siphocampe</i> Haeckel, 1881: 438 Artostrobiidae SUP.  50 µm	N 312 <i>Rhopalosyringium</i> Campbell & Clark, 1944: 30 Artostrobiidae  50 µm
<i>Dictyocephalus amphora</i> Haeckel, 1887: 1305, pl. 62, fig. 4 EARLY TOARCIC-EARLY OLIGOCENE	<i>Siphocampe annulosa</i> Haeckel, 1887: 1500, pl. 79, fig. 10 EARLY BAJOCIAN-EARLY EOCENE	<i>Rhopalosyringium magnificum</i> Campbell & Clark, 1944: 30, pl. 7, fig. 16 (new lectotype) EARLY APTIAN-LATE MAASTRICHTIAN
N 313 <i>Pseudotheocampe</i> Empson-Morin, 1981: 264 Artostrobiidae  50 µm	N 314 <i>Theocampe</i> Haeckel, 1887: 1422 Artostrobiidae N.D.  50 µm	N 315 <i>Raoultius</i> De Wever, 1982: 218 Eucyrtidiellidae  50 µm
<i>Pseudotheocampe abschnitta</i> Empson-Morin, 1981: 264, pl. 5, fig. 2A LATE CAMPANIAN-LATE MAASTRICHTIAN	<i>Dictyomitra ehrenbergi</i> Zittel, 1876: 498, pl. 2, fig. 5 NOMEN DUBIUM	<i>Raoultius calcar</i> De Wever, 1982: 218, pl. 13, fig. 5 EARLY PLIENSCHACHIAN-EARLY TOARCIC

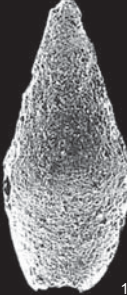
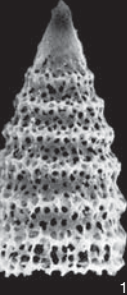
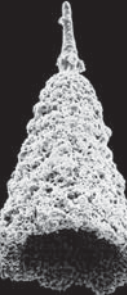
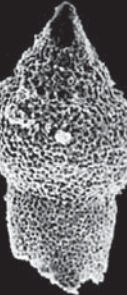
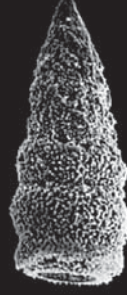


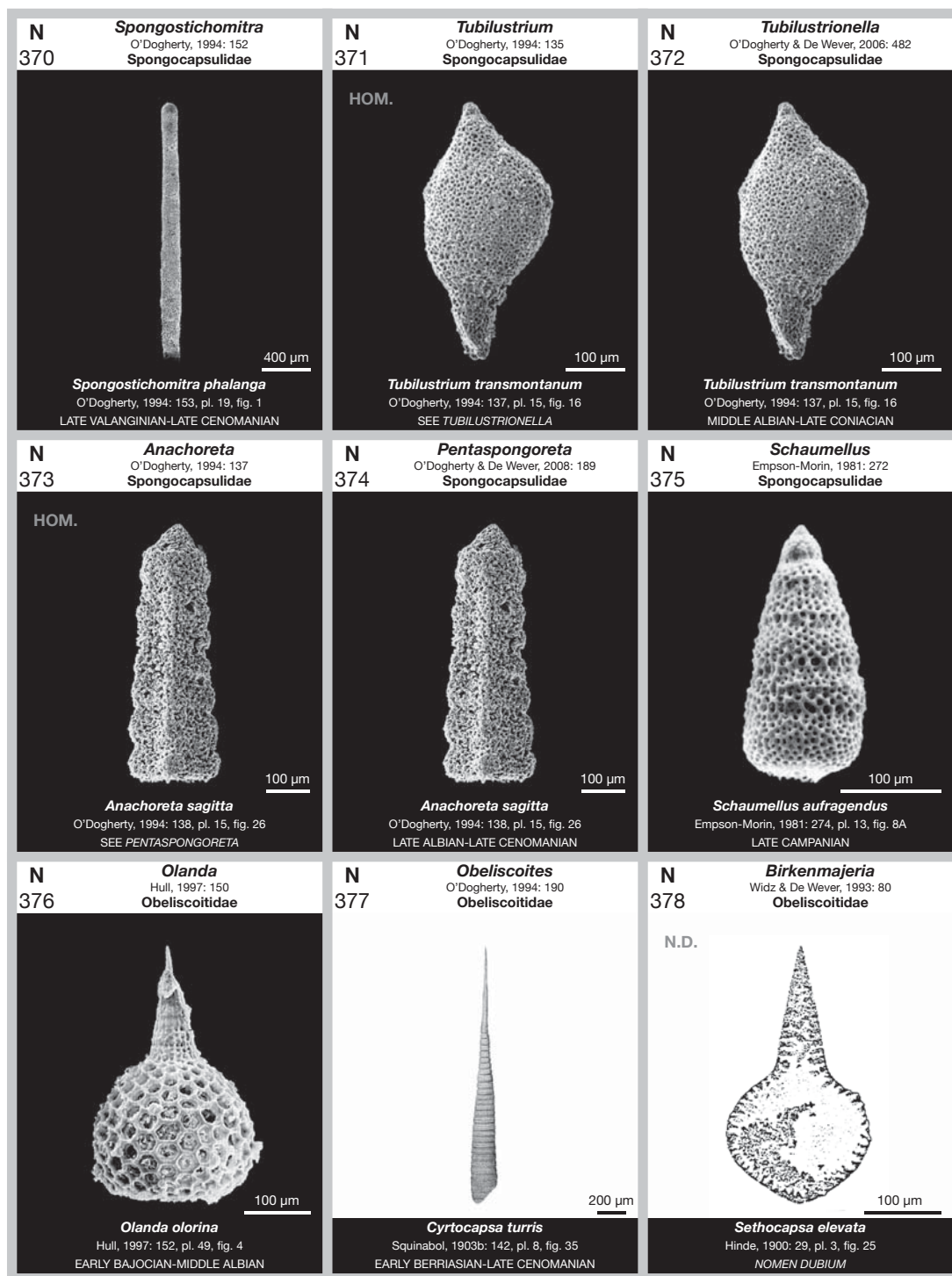


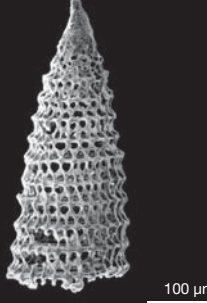
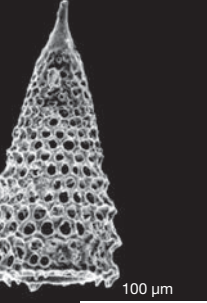
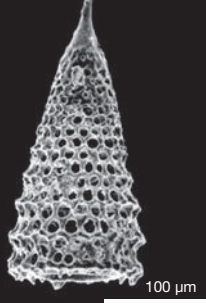
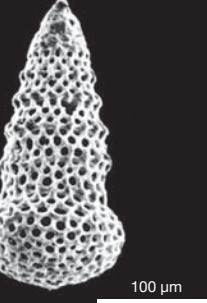


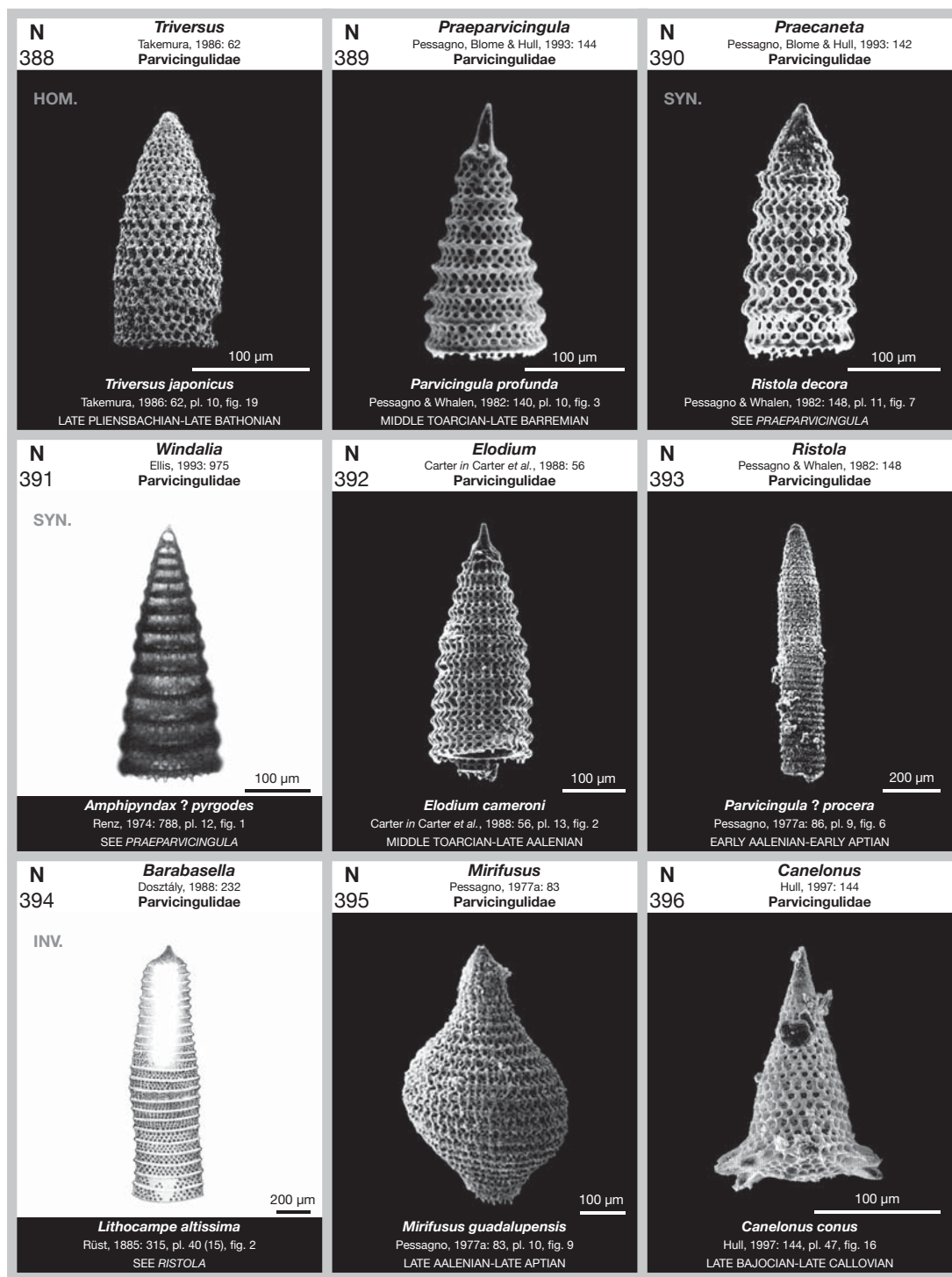
N 343 Combusta Yeh, 1987a: 60 Archaeodictyomitridae SYN.  100 µm Combusta munda Yeh, 1987a: 61, pl. 20, fig. 11 SEE <i>ARCHAEOICTYOMITRA</i>	N 344 Belleza Hull, 1997: 140 Archaeodictyomitridae  100 µm Stichocapsa decora Rüst, 1985: 319, pl. 42 (17), fig. 3 LATE BAJOCIAN-LATE CALLOVIAN	N 345 Thanarla Pessagno, 1977b: 45 Archaeodictyomitridae  50 µm Phormocyrtis veneta Squinabol, 1903b: 134, pl. 9, fig. 30 EARLY BATHONIAN-LATE CENOMANIAN
N 346 Mictyoditra Dumitrica in Dumitrica et al., 1997: 43 Archaeodictyomitridae  100 µm Eucyrtidium thiensis Tan Sin Hok, 1927: 60, pl. 11, fig. 95 EARLY BERRIASIAN-EARLY CENOMANIAN	N 347 Mita Pessagno, 1977b: 44 Archaeodictyomitridae HOM.  100 µm Mita magnifica Pessagno, 1977b: 44, pl. 6, fig. 2 EARLY BERRIASIAN-EARLY PALEOCENE	N 348 Dictyomitra Zittel, 1876: 81 Archaeodictyomitridae  100 µm Dictyomitra multicostata Zittel, 1876: 81, pl. 2, fig. 2 (lectotype) EARLY BERRIASIAN-EARLY PALEOCENE
N 349 Dictyomitroma Haeckel, 1887: 1478 Archaeodictyomitridae SYN.  100 µm Dictyomitra multicostata Zittel, 1876: 81, pl. 2, fig. 2 (lectotype) SEE <i>DICTYOMITRA</i>	N 350 Zifondium Pessagno, 1977b: 47 Archaeodictyomitridae SYN.  200 µm Zifondium lassenensis Pessagno, 1977b: 47, pl. 7, fig. 4 SEE <i>DICTYOMITRA</i>	N 351 Diplostrobos Squinabol, 1903b: 140 Archaeodictyomitridae SYN.  100 µm Diplostrobos crassispina Squinabol, 1903b: 140, pl. 8, fig. 37 SEE <i>DICTYOMITRA</i>

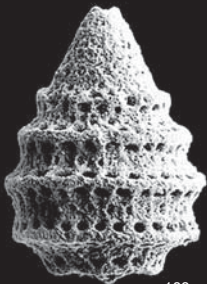
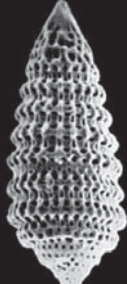
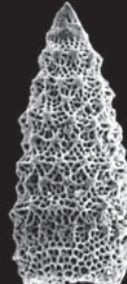
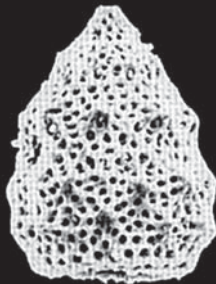


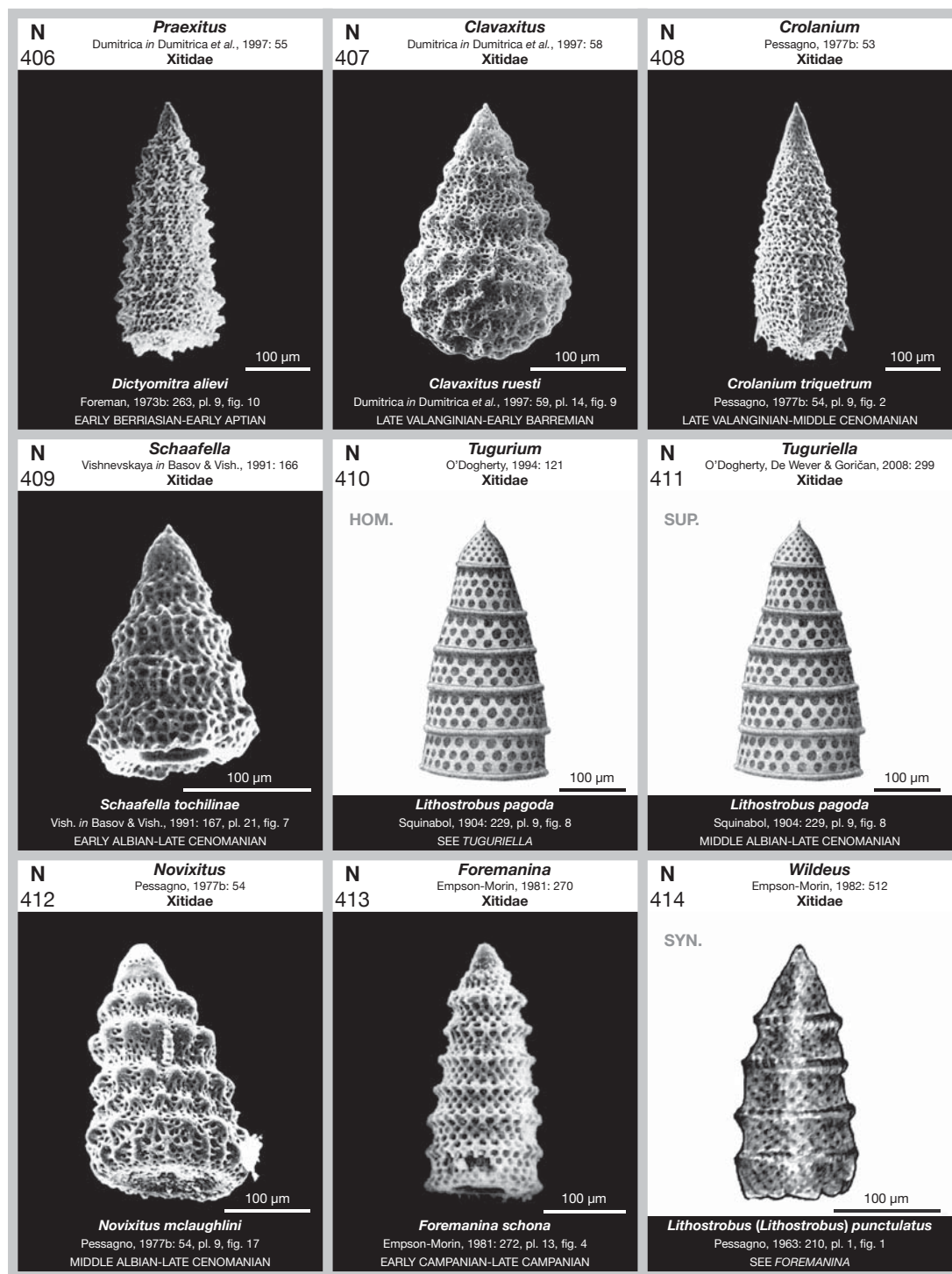
N 361 <i>Relanus</i> Pessagno & Whalen, 1982: 125 Canoptidae SYN.  100 µm <i>Relanus reefensis</i> Pessagno & Whalen, 1982: 125, pl. 1, fig. 2 SEE CANOPTUM	N 362 <i>Pseudocanoptum</i> Suzuki, 1997: 364 Canoptidae SYN.  100 µm <i>Pseudocanoptum gracile</i> Suzuki, 1997: 366, abb. 4, nr. 1a SEE CANOPTUM	N 363 <i>Laxtorum</i> Blome, 1984a: 56 Canoptidae  100 µm <i>Laxtorum hindei</i> Blome, 1984a: 56, pl. 15, fig. 4 LATE NORIAN-EARLY PLIENSCHACHIAN
N 364 <i>Cinguloturris</i> Dumitrica in Dumitrica & Mello, 1982: 22 Canoptidae  100 µm <i>Cinguloturris carpatica</i> Dumitrica in Dumitrica & Mello, 1982: 23, pl. 4, fig. 9 LATE BATHONIAN-EARLY VALANGINIAN	N 365 <i>Maudia</i> Carter in Carter et al., 1988: 61 Spongocapsulidae? HOM.  200 µm <i>Maudia yakounense</i> Carter in Carter et al., 1988: 61, pl. 14, fig. 9 LATE TOARCIAN	N 366 <i>Obesacapsula</i> Pessagno, 1977a: 87 Spongocapsulidae  100 µm <i>Obesacapsula morroensis</i> Pessagno, 1977a: 87, pl. 11, fig. 5 LATE BAJOCIAN-EARLY BARREMIAN
N 367 <i>Grandicapsula</i> Kazintsova, 1985: 6 Spongocapsulidae SYN.  100 µm <i>Grandicapsula spongiosa</i> Kazintsova, 1985: 7, fig. 2 SEE OBESACAPSULA	N 368 <i>Spongocapsula</i> Pessagno, 1977a: 88 Spongocapsulidae  100 µm <i>Spongocapsula palmerae</i> Pessagno, 1977a: 88, pl. 11, fig. 12 LATE BAJOCIAN-EARLY CAMPANIAN	N 369 <i>Torculum</i> O'Dogherty, 1994: 131 Spongocapsulidae SYN.  100 µm <i>Theoconus coronatus</i> Squinabol, 1904: 220, pl. 8, fig. 3 SEE SPONGOCAPSULA

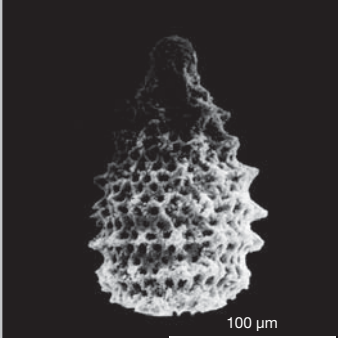
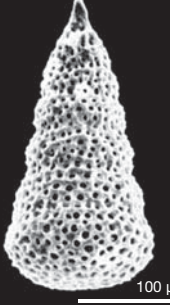
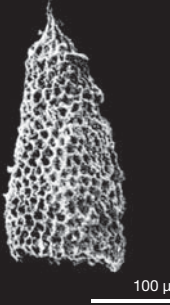


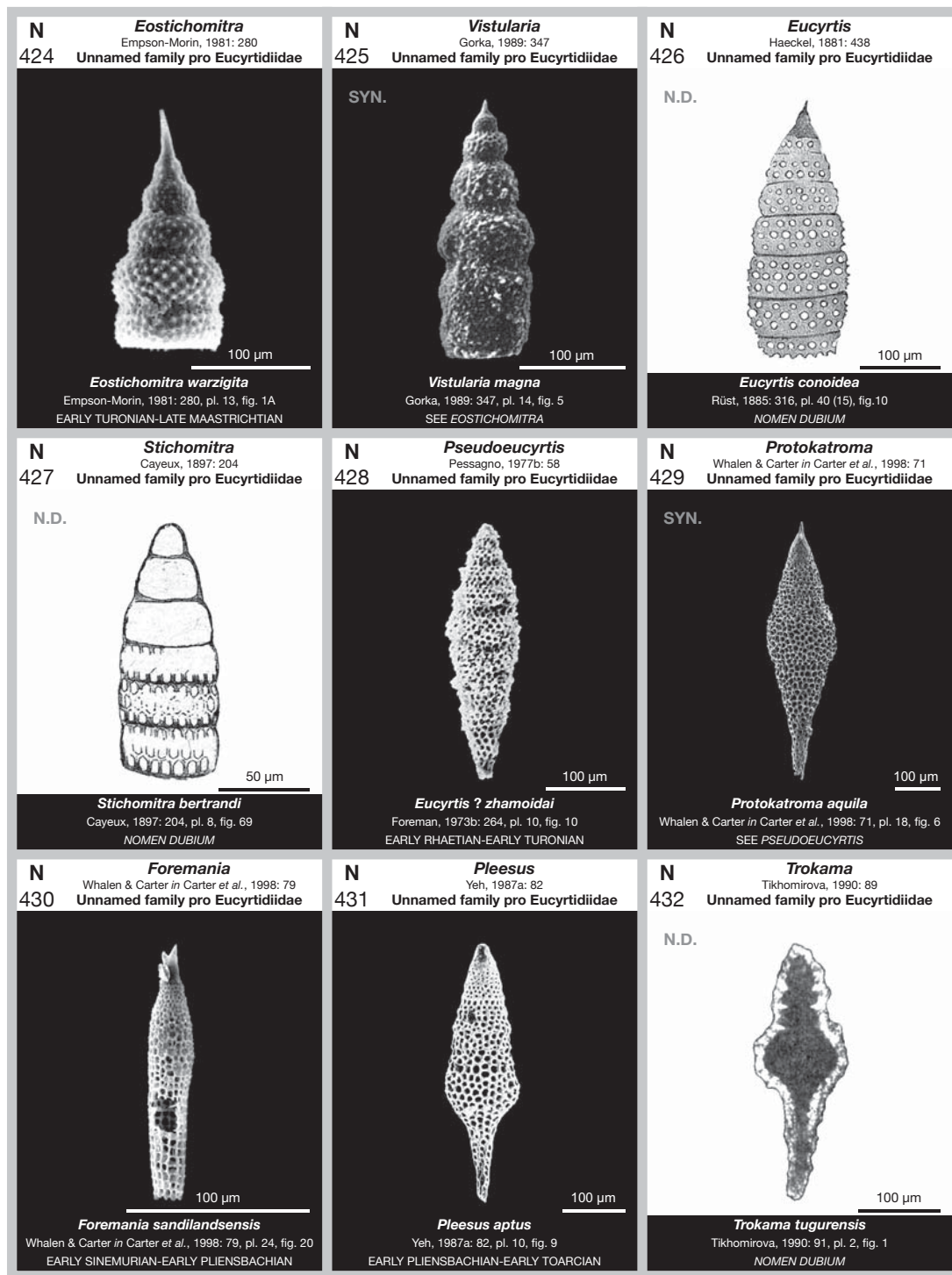
N 379 Loopus Yang, 1993: 123 Pseudodictyomitridae SUP.  Pseudodictyomitra primitiva Matsuoka & Yao, 1985: 131, pl. 3, fig. 4 EARLY BATHONIAN-EARLY APTIAN	N 380 Candissa Hull, 1997: 142 Pseudodictyomitridae SYN.  Candissa mexicana Hull, 1997: 144, pl. 47, fig. 12 SEE LOOPUS	N 381 Pseudodictyomitra Pessagno, 1977b: 50 Pseudodictyomitridae  Pseudodictyomitra pentacolaensis Pessagno, 1977b: 50, pl. 8, fig. 3 EARLY KIMMERIDGIAN-EARLY PALEOCENE
N 382 Shana Wu & Pessagno in Wu, 1993: 126 Pseudodictyomitridae SYN., HOM.  Shana <i>Shana</i> Shana Wu, 1993: 126, pl. 3, fig. 19 SEE PSEUDODICTYOMITRA	N 383 Nitrader Cordey & Carter, 1996: 449 Parvicingulidae  Nitrader <i>Nitrader</i> Nitrader Cordey & Carter, 1996: 449, pl. 1, fig. 4 EARLY HETTANGIAN-LATE SINEMURIAN	N 384 Atalanta Cordey & Carter, 1996: 446 Parvicingulidae HOM.  Atalanta <i>Atalanta</i> Atalanta Cordey & Carter, 1996: 447, pl. 1, fig. 2 SEE ATALANTRIA
N 385 Atalantria Cordey & Carter, 2007: 430 Parvicingulidae  Atalantria <i>Atalantria</i> Atalantria Cordey & Carter, 1996: 447, pl. 1, fig. 2 EARLY HETTANGIAN-EARLY PLIENSCHACHIAN	N 386 Wrangellium Pessagno & Whalen, 1982: 126 Parvicingulidae  Wrangellium <i>Wrangellium</i> Wrangellium Pessagno & Whalen, 1982: 126, pl. 2, fig. 7 LATE SINEMURIAN-MIDDLE TOARCIAN	N 387 Pseudoristola Yeh, 1987a: 95 Parvicingulidae  Pseudoristola <i>Pseudoristola</i> Pseudoristola Yeh, 1987a: 95, pl. 14, fig. 6 EARLY PLIENSCHACHIAN-EARLY TOARCIAN

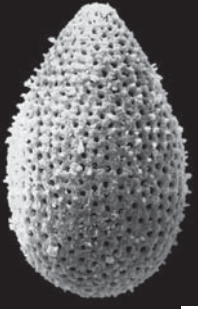
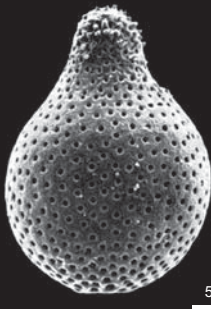
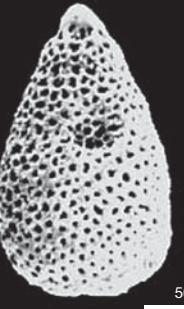


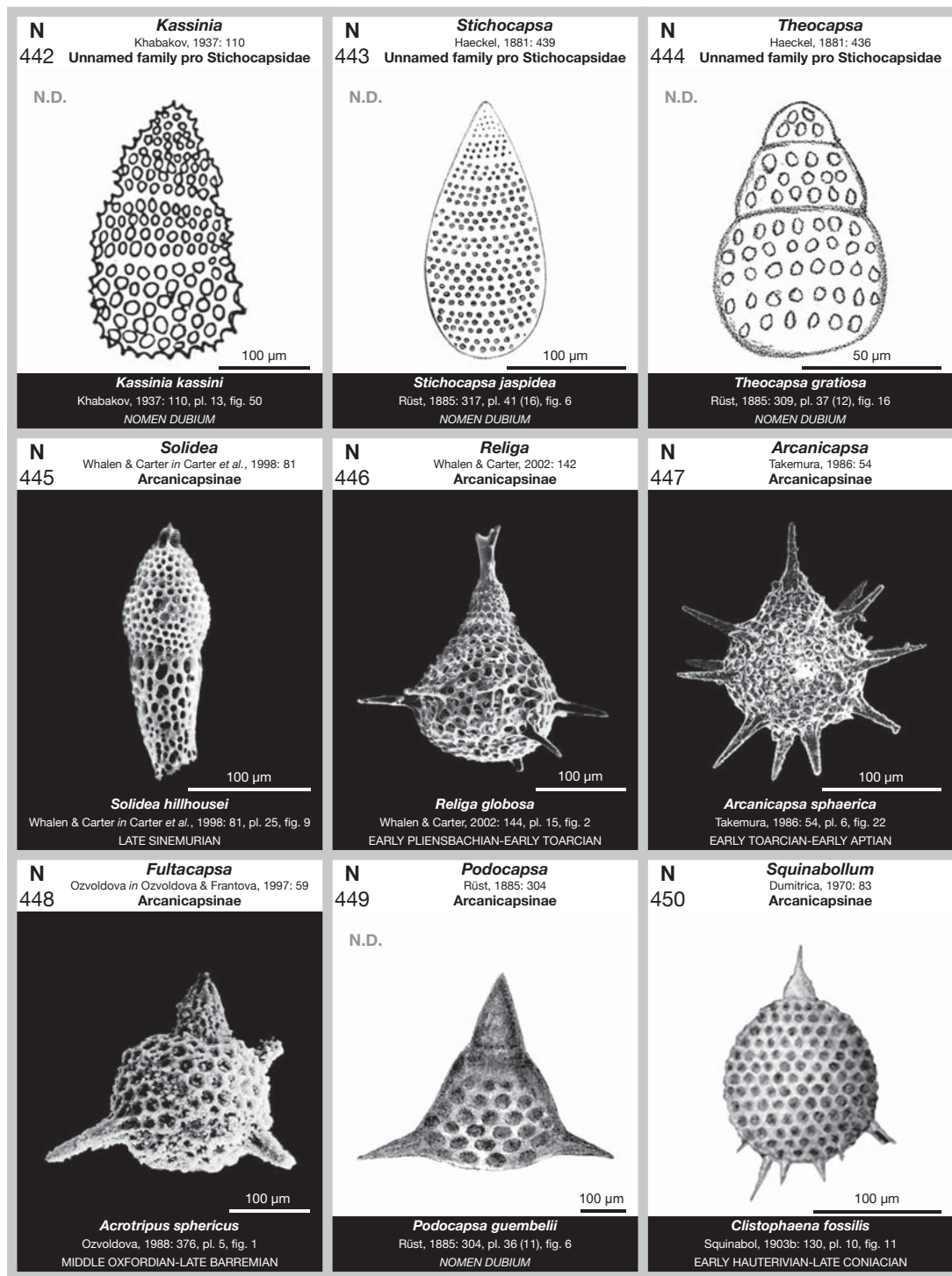
N 397 <i>Tethysetta</i> Dumitrica in Dumitrica et al., 1997: 48 Parvicingulidae  100 µm <i>Tethysetta pygmaea</i> Dumitrica in Dumitrica et al., 1997: 50, pl. 10, fig. 18 EARLY BAJOCIAN-EARLY APTIAN	N 398 <i>Parvicingula</i> Pessagno, 1977a: 84 Parvicingulidae  100 µm <i>Parvicingula santabarbarensis</i> Pessagno, 1977a: 86, pl. 9, fig. 11 LATE BATHONIAN-LATE HAUTERIVIAN	N 399 <i>Caneta</i> Pessagno, Blome & Hull, 1993: 139 Parvicingulidae  100 µm <i>Parvicingula hsui</i> Pessagno, 1977a: 85, pl. 8, fig. 15 EARLY KIMMERIDGIAN-LATE TITHONIAN
N 400 <i>Darvelus</i> Hull, 1995: 16 Parvicingulidae SUP.  100 µm <i>Darvelus pessagnoii</i> Hull, 1995: 17, pl. 1, fig. 8 LATE TITHONIAN	N 401 <i>Svinitzium</i> Dumitrica in Dumitrica et al., 1997: 52 Parvicingulidae  100 µm <i>Pseudodictyomitra depressa</i> Baumgartner, 1984: 782, pl. 8, fig. 2 EARLY BERRIASIAN-LATE ALBIAN	N 402 <i>Pseudocrolanium</i> Jud, 1994: 96 Parvicingulidae  100 µm <i>Pseudocrolanium fluegeli</i> Jud, 1994: 96, pl. 17, fig. 11 LATE VALANGINIAN-EARLY APTIAN
N 403 <i>Xitus</i> Pessagno, 1977b: 55 Xitidae  100 µm <i>Xitus plenus</i> Pessagno, 1977b: 55, pl. 9, fig. 15 LATE BAJOCIAN-LATE CAMPANIAN	N 404 <i>Pseudoxitus</i> Wu & Pessagno in Wu, 1993: 127 Xitidae  100 µm <i>Pseudoxitus inflatus</i> Wu, 1993: 127, pl. 4, fig. 4 EARLY TITHONIAN-LATE BARREMIAN	N 405 <i>Neorelumbra</i> Kiessling, 1995: 334 Xitidae  100 µm <i>Neorelumbra tippitae</i> Kiessling, 1995: 334, fig. 8/1 EARLY TITHONIAN-EARLY APTIAN

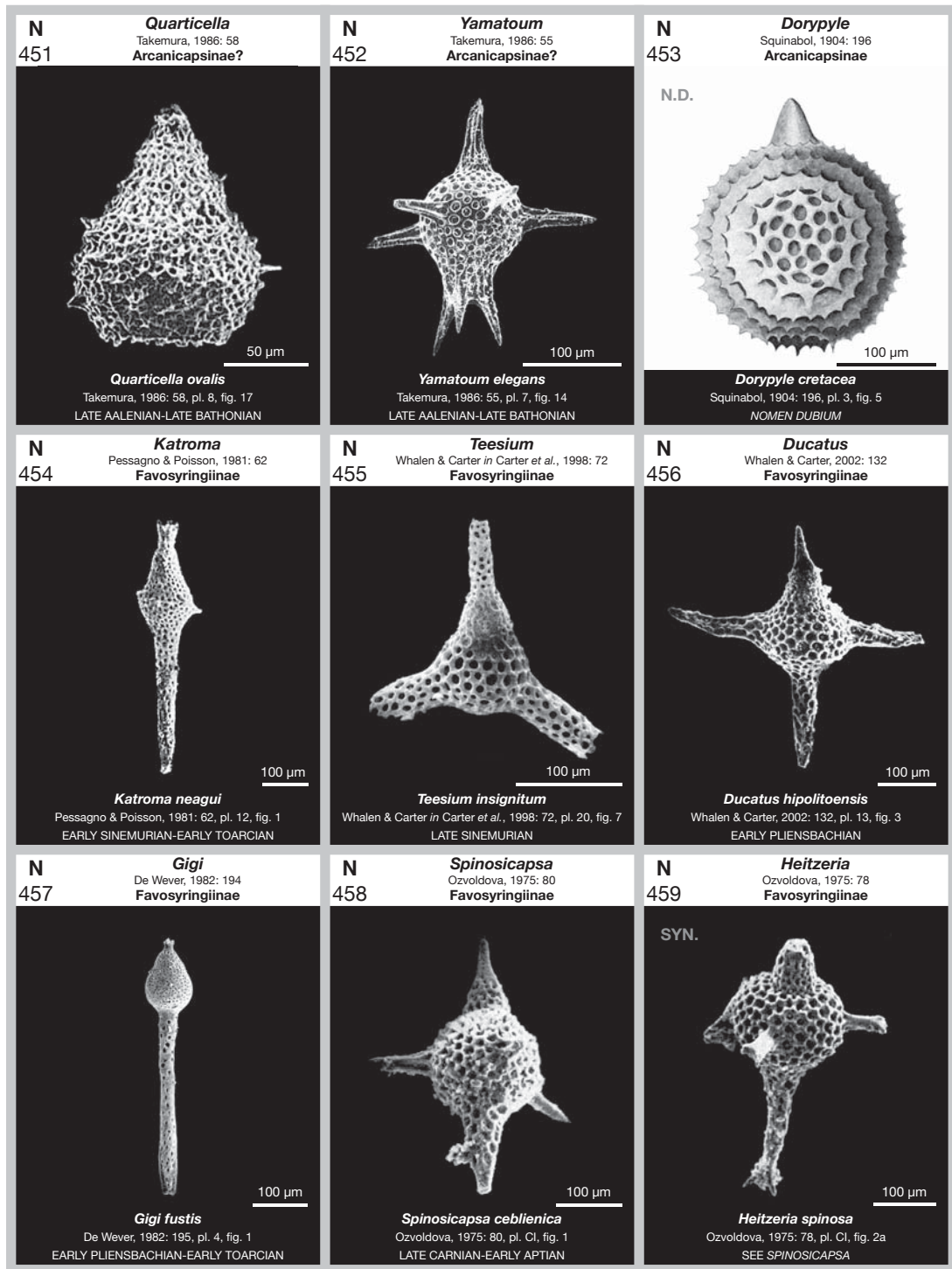


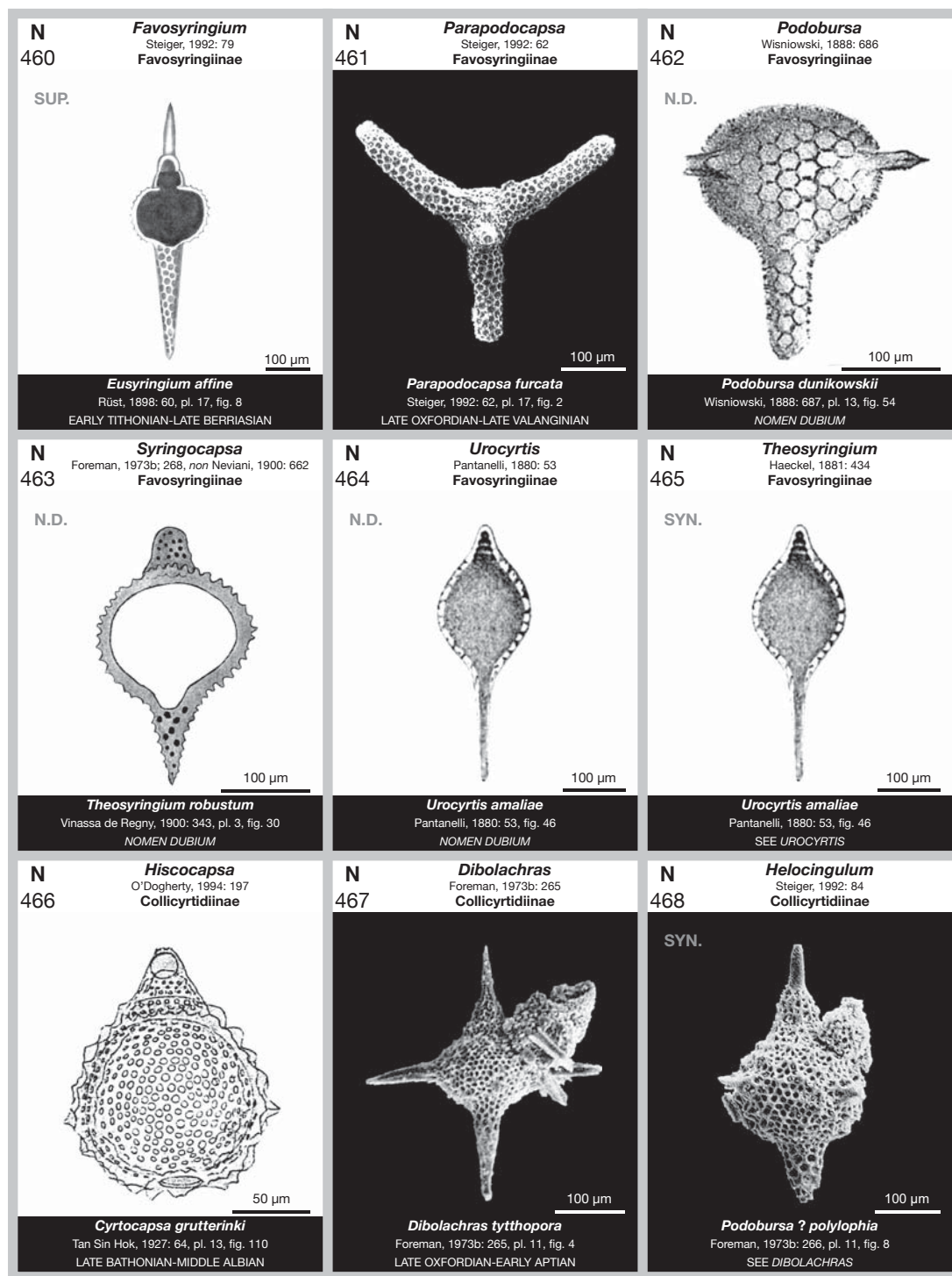
N 415 <i>Eoxitus</i> Kozur, 1985: 215 Amphipyndacidae  <i>Eoxitus hungaricus</i> Kozur, 1985: 216, fig. 1a EARLY BAJOCIAN-EARLY APTIAN	N 416 <i>Amphipternis</i> Foreman, 1973a: 430 Amphipyndacidae  <i>Lithocampe ? clava</i> Ehrenberg, 1873 (unfigured); 1875, pl. 4, fig. 2 EARLY BERRIASIAN-EARLY EOCENE	N 417 <i>Amphiparvex</i> Garg & Jain, 1978: 164 Amphipyndacidae SYN.  <i>Amphiparvex breviori</i> Garg & Jain, 1978: 165, pl. 3, fig. 45 SEE AMPHIPTERNIS
N 418 <i>Protostichocapsa</i> Empson-Morin, 1982: 514 Amphipyndacidae SYN.  <i>Stichocapsa ? stocki</i> Campbell & Clark, 1944: 44, pl. 8, fig. 33 (lectotype) SEE AMPHIPTERNIS	N 419 <i>Amphipyndax</i> Foreman, 1966: 355 Amphipyndacidae  <i>Amphipyndax enesseffi</i> Foreman, 1966: 356, tex-fig. 10 EARLY CAMPANIAN-LATE MAASTRICHTIAN	N 420 <i>Milax</i> Blome, 1984b: 372 Unnamed family pro Eucyrtidiidae HOM.  <i>Milax alienus</i> Blome, 1984b: 374, pl. 13, fig. 2 SEE LANTUS
N 421 <i>Lantus</i> Yeh, 1987a: 90 Unnamed family pro Eucyrtidiidae  <i>Lantus sixi</i> Yeh, 1987a: 90, pl. 17, fig. 9 EARLY PLIENSCHACHIAN-EARLY KIMMERIDGIAN	N 422 <i>Guexella</i> Baumgartner, 1984: 766 Unnamed family pro Eucyrtidiidae  <i>Lithocampe nudata</i> Kocher in Baumgartner et al., 1980: 55, pl. 6, fig. 3 LATE BAJOCIAN-EARLY OXFORDIAN	N 423 <i>Pseudodictyomitrella</i> Grill & Kozur, 1986: 252 Unnamed family pro Eucyrtidiidae  <i>Pseudodictyomitrella spinosa</i> Grill & Kozur, 1986: 253, pl. 7, fig. 1 EARLY BAJOCIAN-LATE BATHONIAN

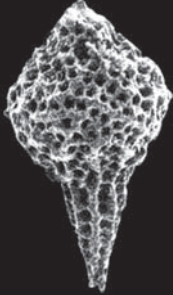
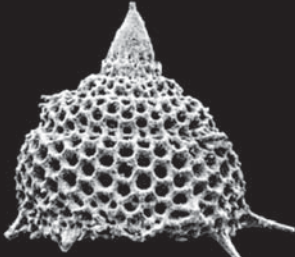
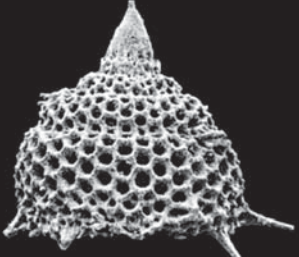
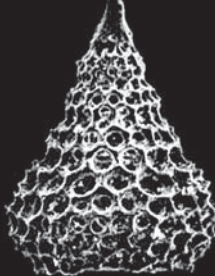
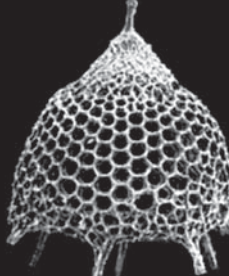


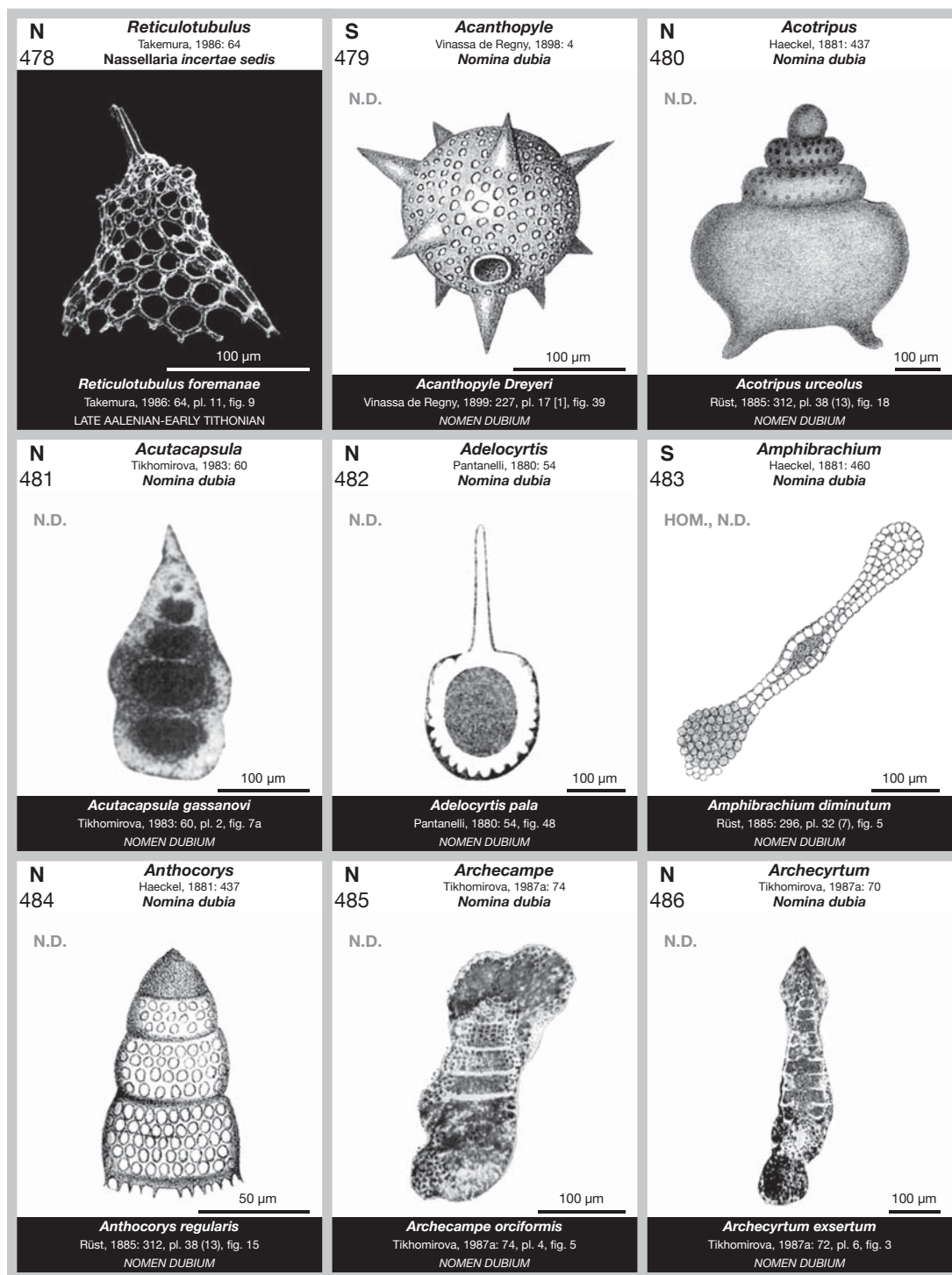
N 433 <i>Distilocapsa</i> Squinabol, 1904: 224 Unnamed family pro Eucyrtidiidae SUP.  100 µm <i>Distilocapsa nova</i> Squinabol, 1904: 225, pl. 9, fig. 1 MIDDLE ALBIAN-LATE MAASTRICHTIAN	N 434 <i>Phalangites</i> O'Dogherty, 1994: 155 Unnamed family pro Eucyrtidiidae HOM.  200 µm <i>Phalangites calamus</i> O'Dogherty, 1994: 156, pl. 20, fig. 7 SEE SANDOVALELLA	N 435 <i>Sandovalella</i> O'Dogherty & De Wever, 2007a: 147 Unnamed family pro Eucyrtidiidae  200 µm <i>Phalangites calamus</i> O'Dogherty, 1994: 156, pl. 20, fig. 7 EARLY BERRIASIAN-EARLY TURONIAN
N 436 <i>Minocapsa</i> Matsuoka, 1991: 734 Unnamed family pro Stichocapsidae  50 µm <i>Minocapsa cylindrica</i> Matsuoka, 1991: 735, fig. 10/1a EARLY PLIENSCHACHIAN-EARLY TOARCIAN	N 437 <i>Praewilliriedellum</i> Kozur, 1984: 50 Unnamed family pro Stichocapsidae  50 µm <i>Praewilliriedellum cephalospinosum</i> Kozur, 1984: 51, pl. 2, fig. 1b LATE ALENIAN-LATE BARREMIAN	N 438 <i>Aitaum</i> Pessagno & Hull, 2002: 246 Unnamed family pro Stichocapsidae  50 µm <i>Aitaum yehae</i> Pessagno & Hull, 2002: 248, pl. 2, fig. 15 MIDDLE OXFORDIAN-LATE OXFORDIAN
N 439 <i>Hemicryptocephalis</i> Li, 1988: 329 Unnamed family pro Stichocapsidae SYN.  50 µm <i>Hemicryptocephalis dengqensis</i> Li, 1988: 330, pl. 1, fig. 4 SEE MINOCAPSA	N 440 <i>Archicapsa</i> Haeckel, 1881: 428 Unnamed family pro Stichocapsidae N.D.  50 µm <i>Archicapsa pyriformis</i> Rüst, 1885: 304, pl. 36 (11), fig. 1 NOMEN DUBIUM	N 441 <i>Cyrtocapsa</i> Haeckel, 1881: 439 Unnamed family pro Stichocapsidae N.D.  100 µm <i>Cyrtocapsa ovalis</i> Rüst, 1885: 320, pl. 42 (17), fig. 11 NOMEN DUBIUM

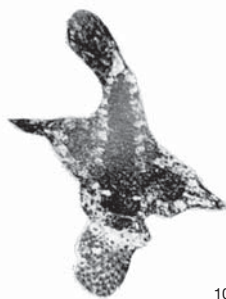
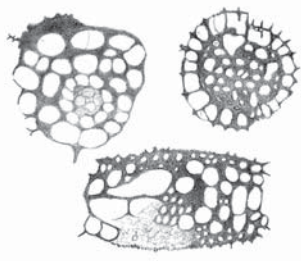
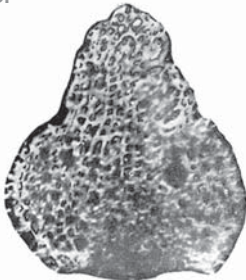


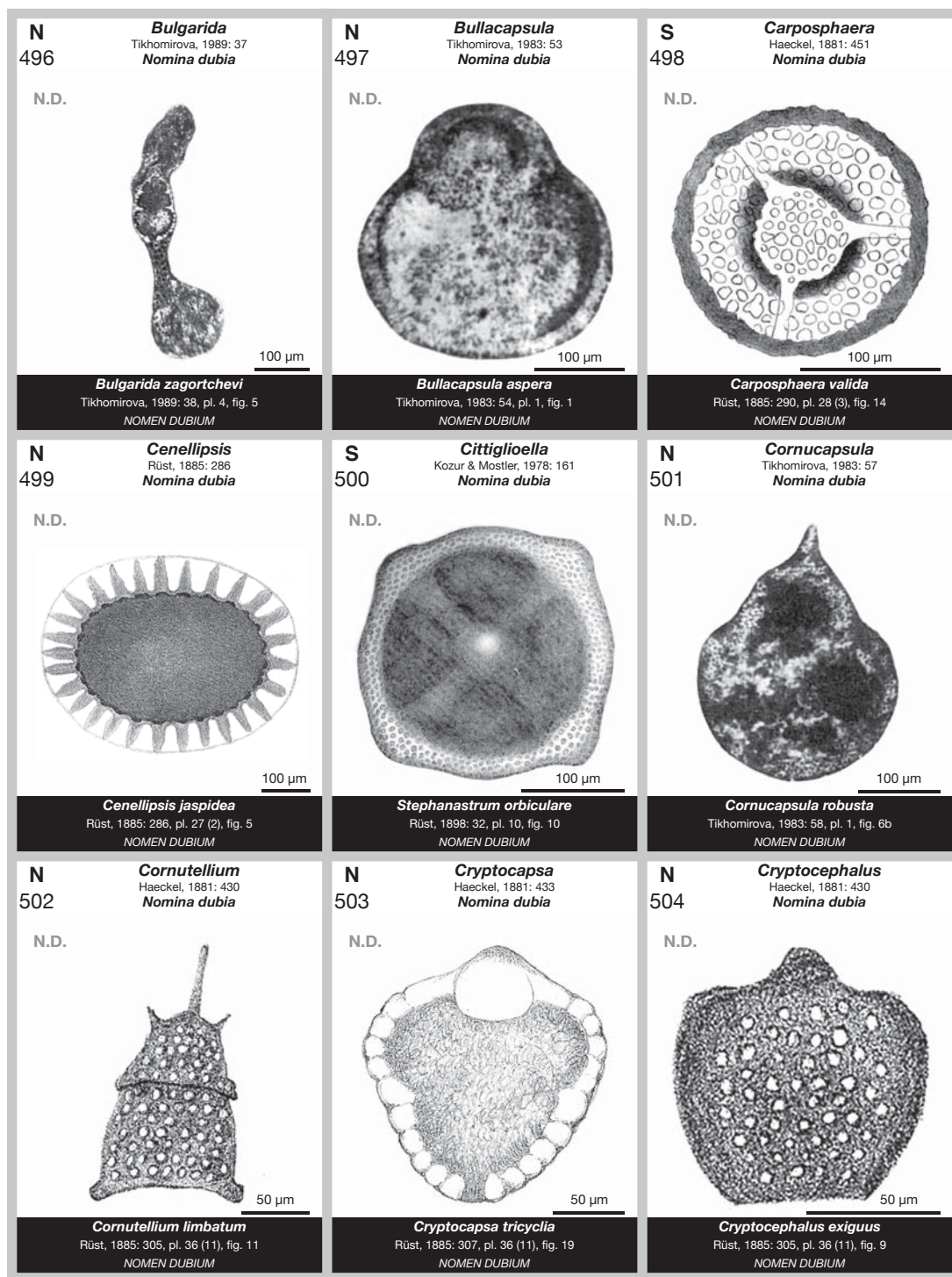


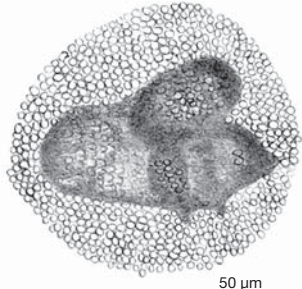
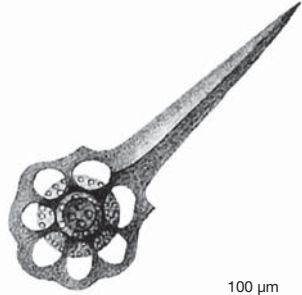
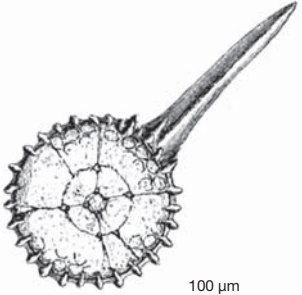
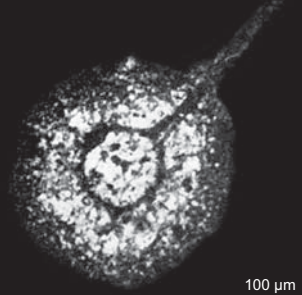
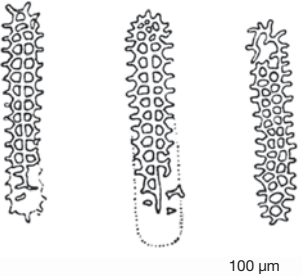


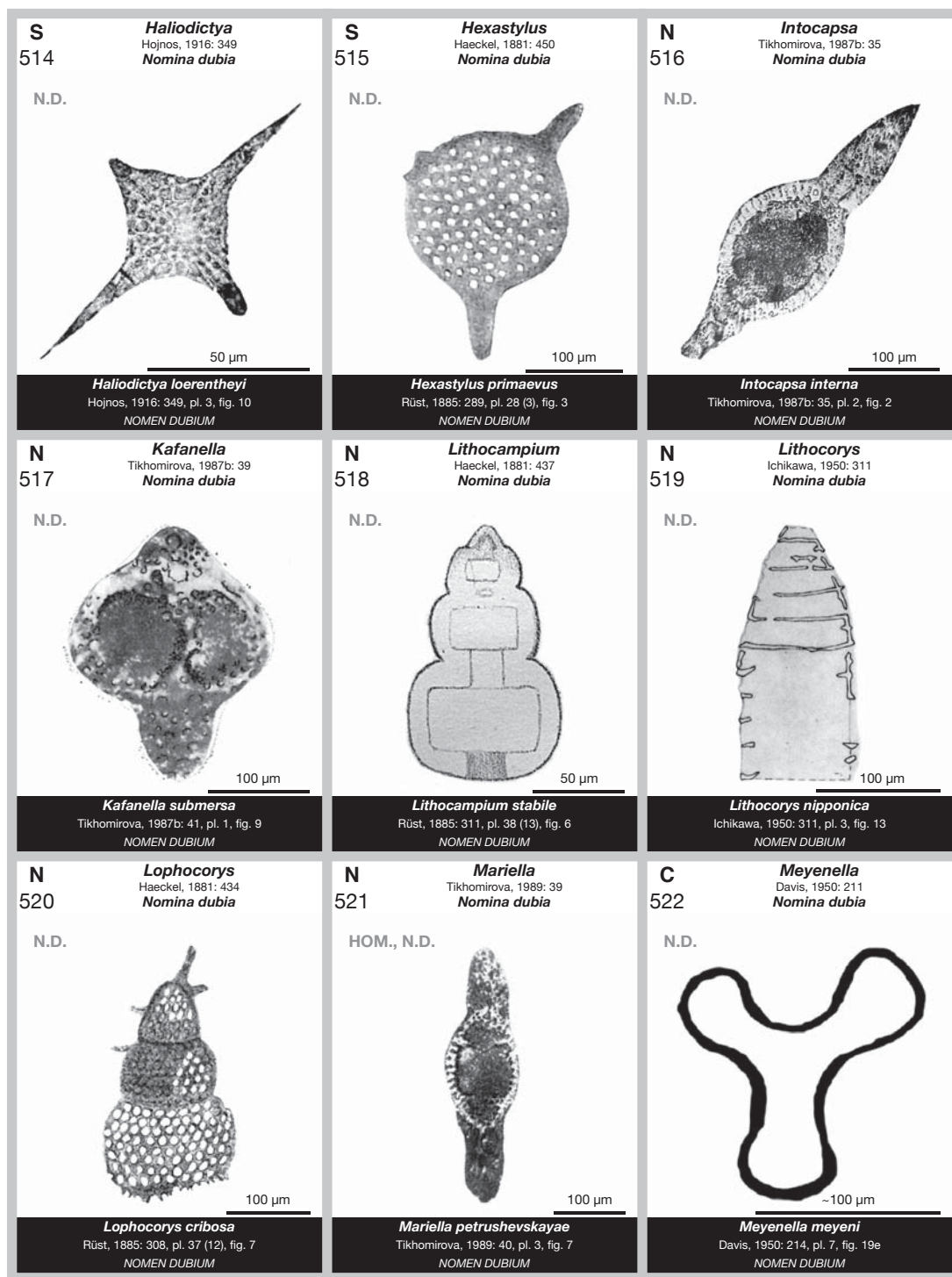
N 469 Morosyringium Steiger, 1992: 85 Collicyrtidiinae SYN.  100 µm Syringocapsa limatum Foreman, 1973b: 268, pl. 16, fig. 8 SEE <i>DIBOLACHRAS</i>	N 470 Collicyrtidium Steiger, 1992: 84 Collicyrtidiinae  100 µm Collicyrtidium rubetum Steiger, 1992: 84, pl. 22, fig. 8 EARLY TITHONIAN	N 471 Afens Riedel & Sanfilippo, 1974: 775 Nassellaria incertae sedis  100 µm Afens liriodes Riedel & Sanfilippo, 1974: 775, pl. 13, fig. 15 EARLY TURONIAN-LATE CAMPANIAN
N 472 Ares De Wever, 1982: 202 Nassellaria incertae sedis  100 µm Ares armatus De Wever, 1982: 203, pl. 10, fig. 4 EARLY SINEMURIAN-LATE BAJOCIAN	N 473 Parares Takemura, 1986: 46 Nassellaria incertae sedis SYN.  100 µm Parares cylindricus Takemura, 1986: 46, pl. 4, fig. 4 SEE <i>ARES</i>	N 474 Andromeda Baumgartner in Baumgartner et al., 1980: 49 Nassellaria incertae sedis HOM.  100 µm Andromeda crassa Baumgartner in Baumgartner et al., 1980: 50, pl. 4, fig. 2 SEE <i>PALINANDROMEDA</i>
N 475 Palinandromeda Pessagno, Blome & Hull, 1993: 159 Nassellaria incertae sedis  100 µm Andromeda crassa Baumgartner in Baumgartner et al., 1980: 50, pl. 4, fig. 2 EARLY AALENIAN-LATE OXFORDIAN	N 476 Parvifavus Takemura, 1986: 60 Nassellaria incertae sedis  50 µm Parvifavus minoensis Takemura, 1986: 61, pl. 10, fig. 6 LATE AALENIAN	N 477 Perseus Takemura & Nakaseko, 1983: 116 Nassellaria incertae sedis  10 µm Perseus hachimanensis Takemura & Nakaseko, 1983: 116, pl. 9, fig. 1a LATE PLIENSCHACHIAN-LATE AALENIAN

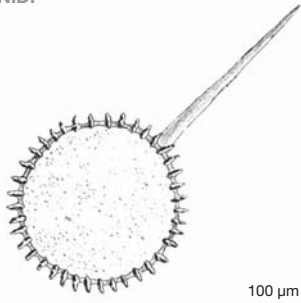
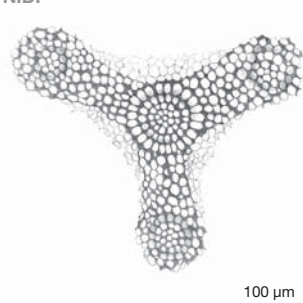
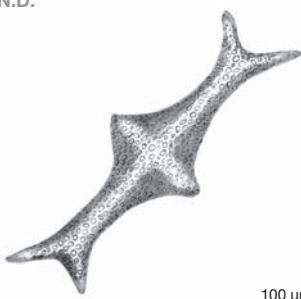
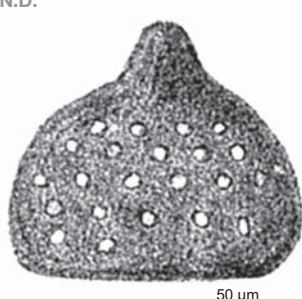
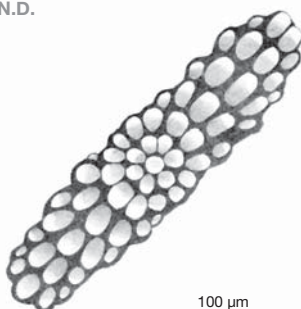
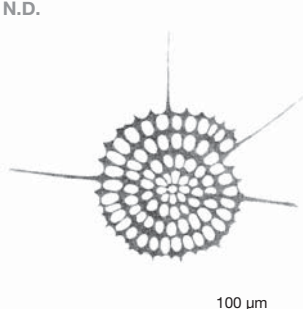


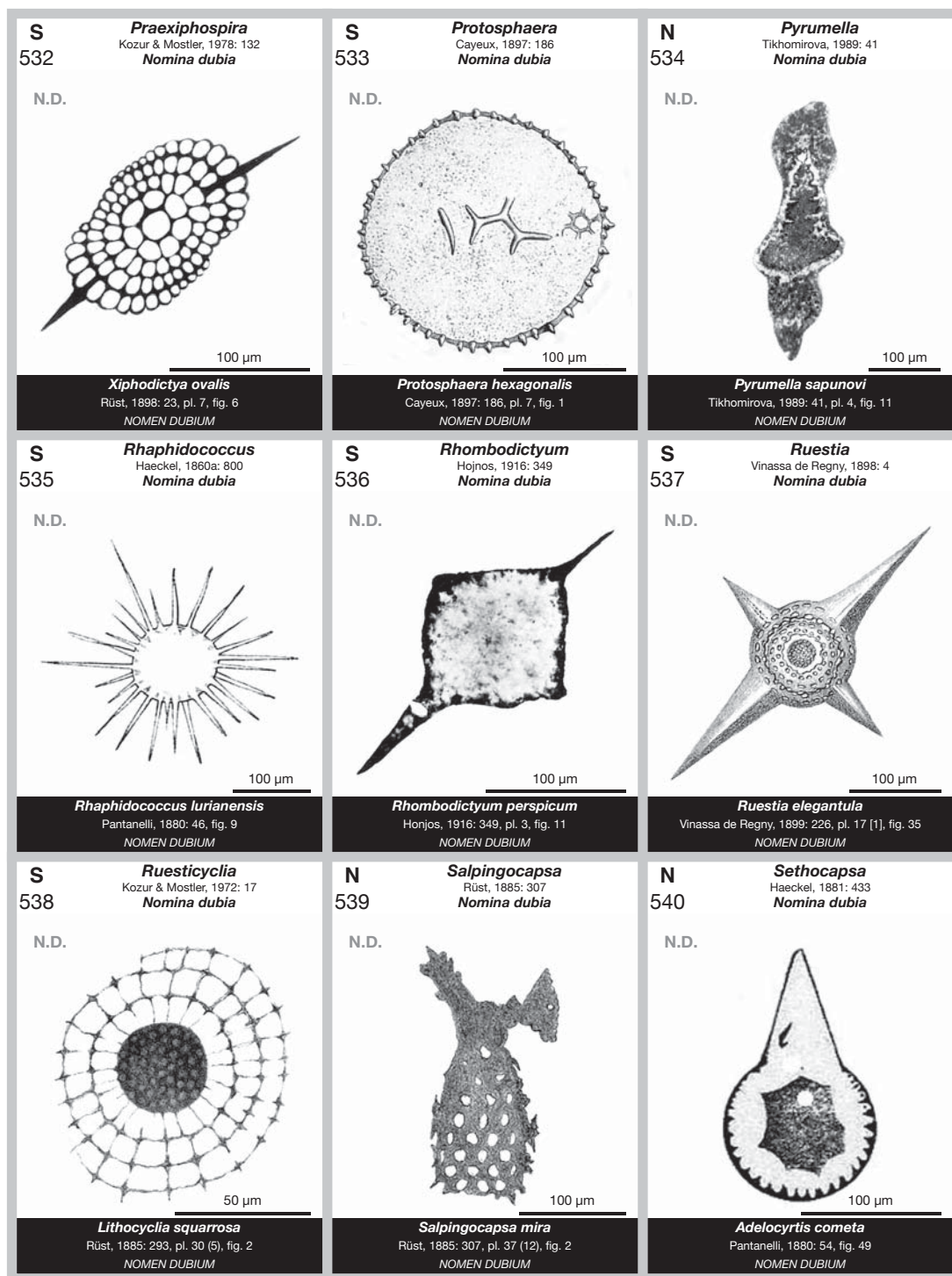
N 487 <i>Archeocyrtis</i> Tikhomirova, 1987a: 75 Nomina dubia N.D.  100 µm <i>Archeocyrtis fragilis</i> Tikhomirova, 1987a: 75, pl. 5, fig. 4 NOMEN DUBIUM	N 488 <i>Archefusus</i> Tikhomirova, 1987a: 77 Nomina dubia N.D.  100 µm <i>Archefusus fusiformis</i> Tikhomirova, 1987a: 78, pl. 3, fig. 12 NOMEN DUBIUM	N 489 <i>Archemirus</i> Tikhomirova, 1987a: 78 Nomina dubia N.D.  100 µm <i>Archemirus daedalus</i> Tikhomirova, 1987a: 79, pl. 4, fig. 8 NOMEN DUBIUM
N 490 <i>Archosomus</i> Tikhomirova, 1987a: 79 Nomina dubia N.D.  100 µm <i>Archosomus katensis</i> Tikhomirova, 1987a: 80, pl. 7, fig. 5 NOMEN DUBIUM	N 491 <i>Archestrumus</i> Tikhomirova, 1987a: 80 Nomina dubia N.D.  100 µm <i>Archestrumus cuspidatus</i> Tikhomirova, 1987a: 81, pl. 1, fig. 8 NOMEN DUBIUM	N 492 <i>Archetypum</i> Tikhomirova, 1987a: 82 Nomina dubia N.D.  100 µm <i>Archetypum erectum</i> Tikhomirova, 1987a: 83, pl. 2, fig. 7 NOMEN DUBIUM
S 493 <i>Atactodiscus</i> Haeckel, 1881: 459 Nomina dubia N.D.  100 µm <i>Atactodiscus liasicus</i> Rüst, 1885: 295, pl. 31 (6), figs 5-7 NOMEN DUBIUM	N 494 <i>Bagotella</i> Tikhomirova, 1987b: 36 Nomina dubia N.D.  50 µm <i>Bagotella distincta</i> Tikhomirova, 1987b: 36, pl. 4, fig. 6 NOMEN DUBIUM	N 495 <i>Balcanella</i> Tikhomirova, 1989: 27 Nomina dubia HOM., N.D.  100 µm <i>Balcanella nana</i> Tikhomirova, 1989: 28, pl. 1, fig. 6 NOMEN DUBIUM

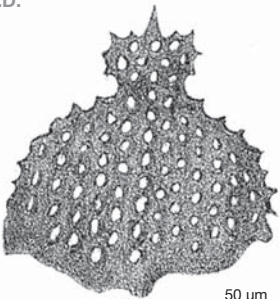
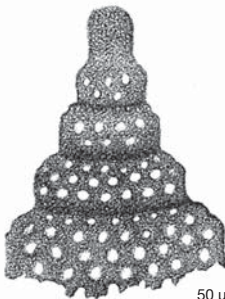
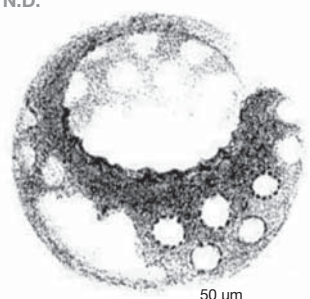
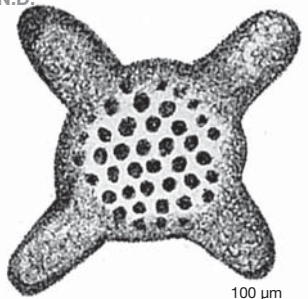
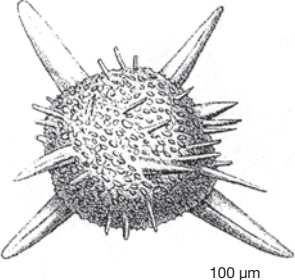
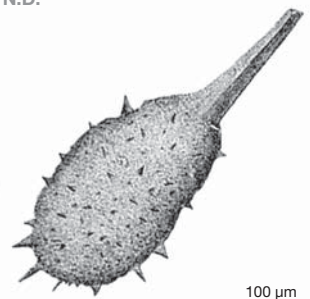
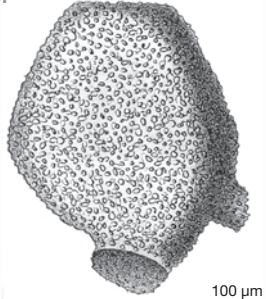
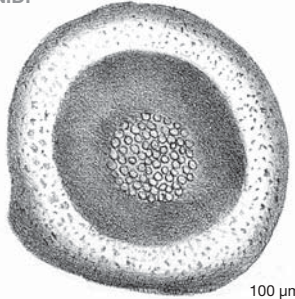
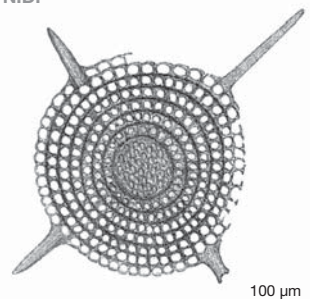


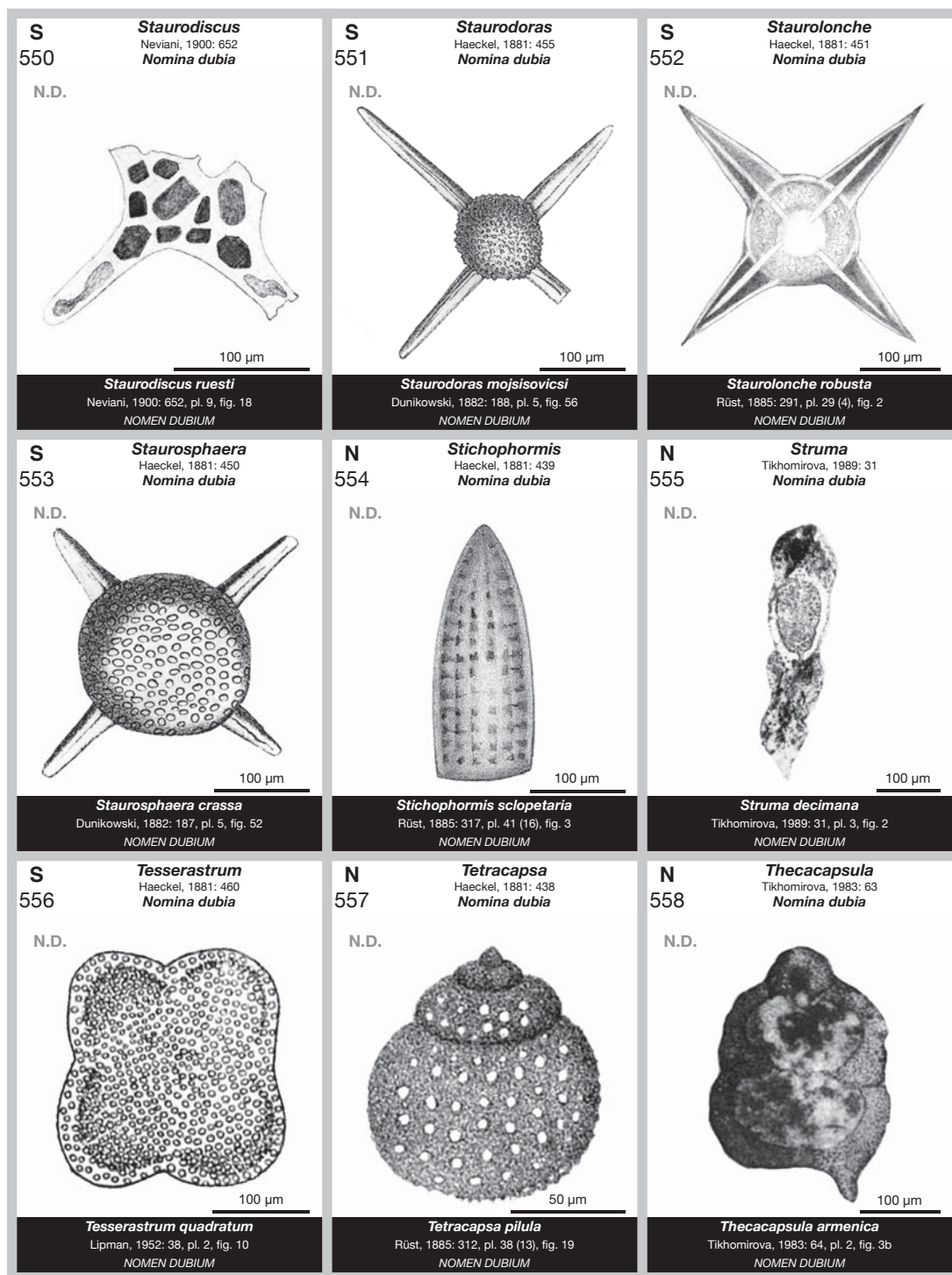
N 505 <i>Dicolocapsa</i> Haeckel, 1881: 433 <i>Nomina dubia</i> N.D.  50 µm <i>Dicolocapsa murina</i> Rüst, 1885: 307, pl. 37 (12), fig. 1 NOMEN DUBIUM	S 506 <i>Dictyoplegma</i> Haeckel, 1862: 458 <i>Nomina dubia</i> N.D.  50 µm <i>Dictyoplegma integrum</i> Rüst, 1885: 292, pl. 29 (4), fig. 10 NOMEN DUBIUM	S 507 <i>Diplactura</i> Haeckel, 1881: 458 <i>Nomina dubia</i> N.D.  200 µm <i>Diplactura longa</i> Rüst, 1885: 294, pl. 30 (5), fig. 4 NOMEN DUBIUM
N 508 <i>Dobridolum</i> Tikhomirova, 1989: 29 <i>Nomina dubia</i> N.D.  100 µm <i>Dobridolum calycinum</i> Tikhomirova, 1989: 30, pl. 1, fig. 9 NOMEN DUBIUM	S 509 <i>Doryconthidium</i> Vinassa de Regny, 1898: 3 <i>Nomina dubia</i> N.D.  100 µm <i>Doryconthidium cayeuxi</i> Vinassa de Regny, 1899: 223, pl. 17 [1], fig. 23 NOMEN DUBIUM	S 510 <i>Druppastylus</i> Cayeux, 1897: 190 <i>Nomina dubia</i> N.D.  100 µm <i>Druppastylus hirsutus</i> Cayeux, 1897: 190, pl. 7, fig. 15 NOMEN DUBIUM
N 511 <i>Guttida</i> Tikhomirova, 1989: 39 <i>Nomina dubia</i> N.D.  100 µm <i>Guttida trifonovae</i> Tikhomirova, 1989: 39, pl. 4, fig. 17 NOMEN DUBIUM	S 512 <i>Gyangzesphaera</i> Wang & Sheng, 1982: 94 <i>Nomina dubia</i> N.D.  100 µm <i>Gyangzesphaera weimeiensis</i> Wang & Sheng, 1982: 85, pl. 2, fig. 1 NOMEN DUBIUM	S 513 <i>Haেকেlella</i> Khabakov, 1937: 105 <i>Nomina dubia</i> N.D.  100 µm <i>Haেকেlella ruesti</i> Khabakov, 1937: 106, pl. 13, figs 49, 52, 54 NOMEN DUBIUM

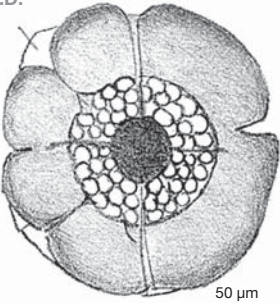
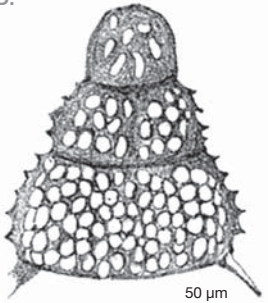
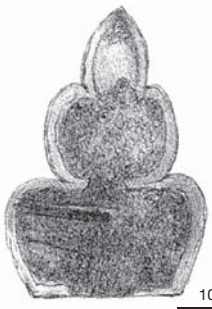
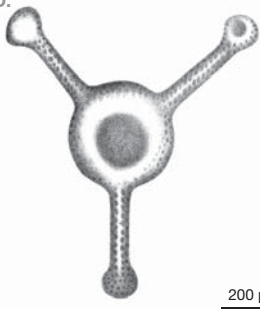
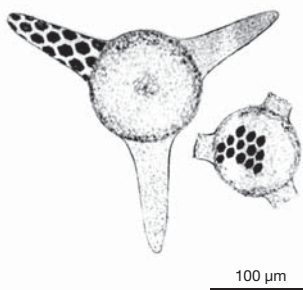


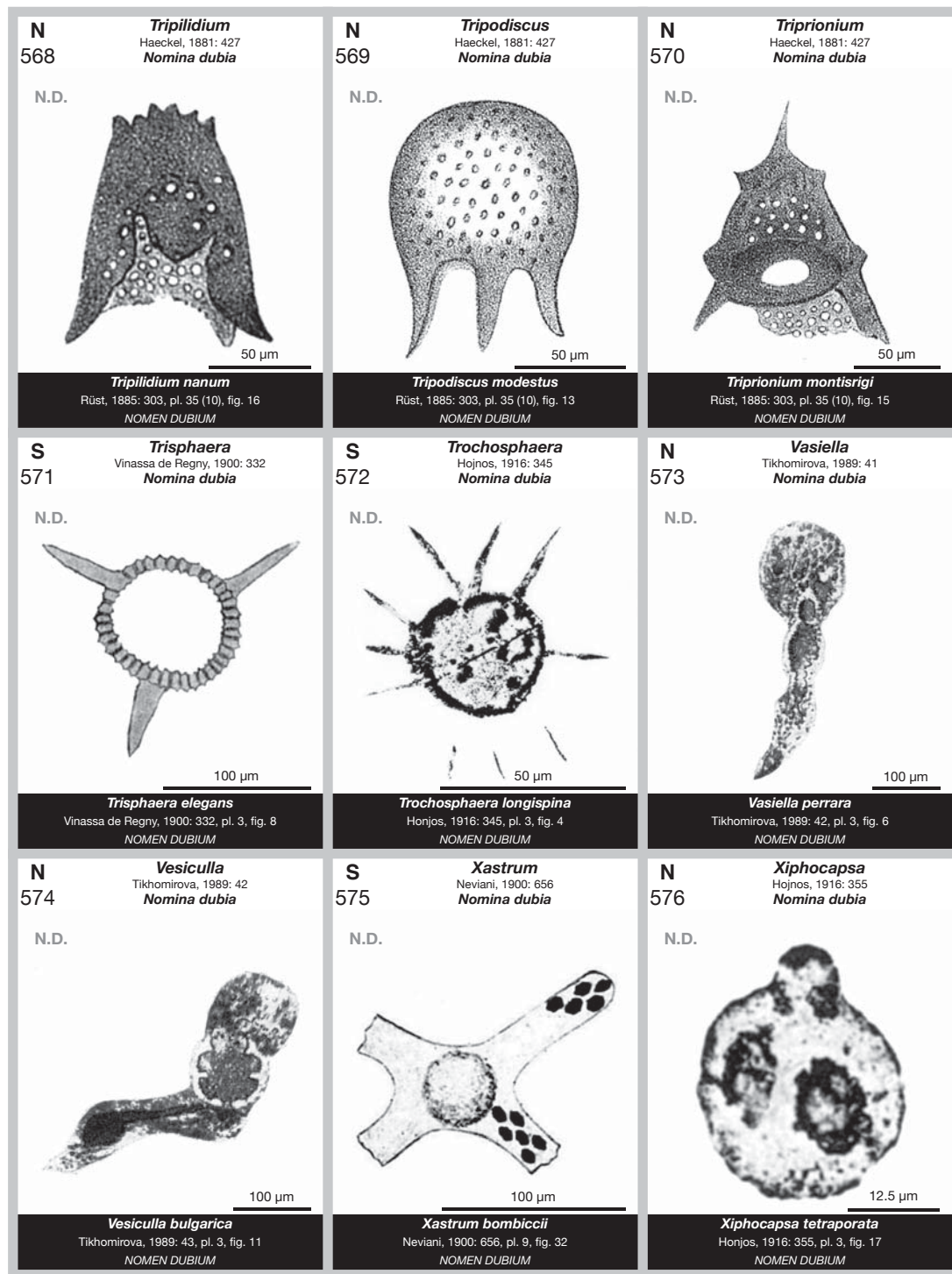
S 523 <i>Monostylus</i> Cayeux, 1897: 189 <i>Nomina dubia</i> N.D.  100 µm <i>Monostylus hirsutus</i> Cayeux, 1897: 189, pl. 7, fig. 12 NOMEN DUBIUM	C 524 <i>Palaeacanthus</i> Davis, 1950: 214 <i>Nomina dubia</i> N.D.  ~100 µm <i>Palaeacanthus spinosus</i> Davis, 1950: 214, pl. 7, fig. 17 NOMEN DUBIUM	S 525 <i>Palaeoeuchitonia</i> Kozur & Mostler, 1978: 138 <i>Nomina dubia</i> N.D.  100 µm <i>Hymeniastrum rotundum</i> Rüst, 1888: 200, pl. 26, fig. 1 NOMEN DUBIUM
S 526 <i>Paramyelastrum</i> Kozur & Mostler, 1978: 153 <i>Nomina dubia</i> N.D.  100 µm <i>Myelastrum quadricorne</i> Rüst, 1898: 32, pl. 11, fig. 4 NOMEN DUBIUM	N 527 <i>Platycryphalus</i> Haeckel, 1881: 430 <i>Nomina dubia</i> N.D.  50 µm <i>Platycryphalus pumilus</i> Rüst, 1885: 305, pl. 36 (11), fig. 10 NOMEN DUBIUM	N 528 <i>Polystichia</i> Pantaneli, 1880: 52 <i>Nomina dubia</i> N.D.  100 µm <i>Polystichia ehrenbergi</i> Pantaneli, 1880: 52, fig. 35 NOMEN DUBIUM
S 529 <i>Praeamphibrachidium</i> Kozur & Mostler, 1978: 137 <i>Nomina dubia</i> N.D.  100 µm <i>Amphibrachium grande</i> Rüst, 1888: 199, pl. 25, fig. 4 NOMEN DUBIUM	S 530 <i>Praerhopalastrum</i> Kozur & Mostler, 1978: 138 <i>Nomina dubia</i> N.D.  100 µm <i>Rhopalastrum proavivum</i> Rüst, 1885: 297, pl. 32 (7), fig. 11 NOMEN DUBIUM	S 531 <i>Praestylodictya</i> Kozur & Mostler, 1978: 131 <i>Nomina dubia</i> N.D.  100 µm <i>Stylodictya spiralis</i> Rüst, 1888: 199, pl. 25, fig. 1 NOMEN DUBIUM

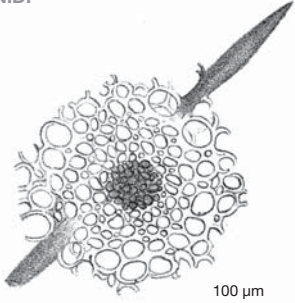
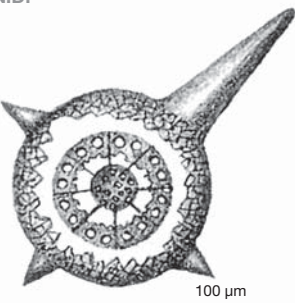
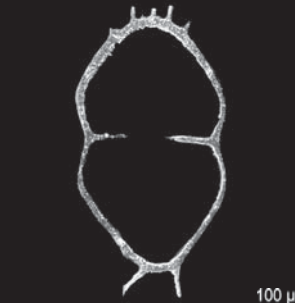
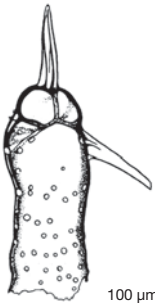
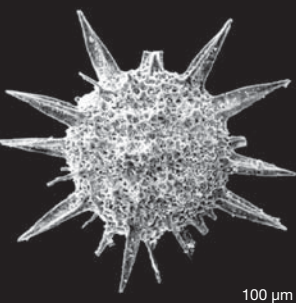


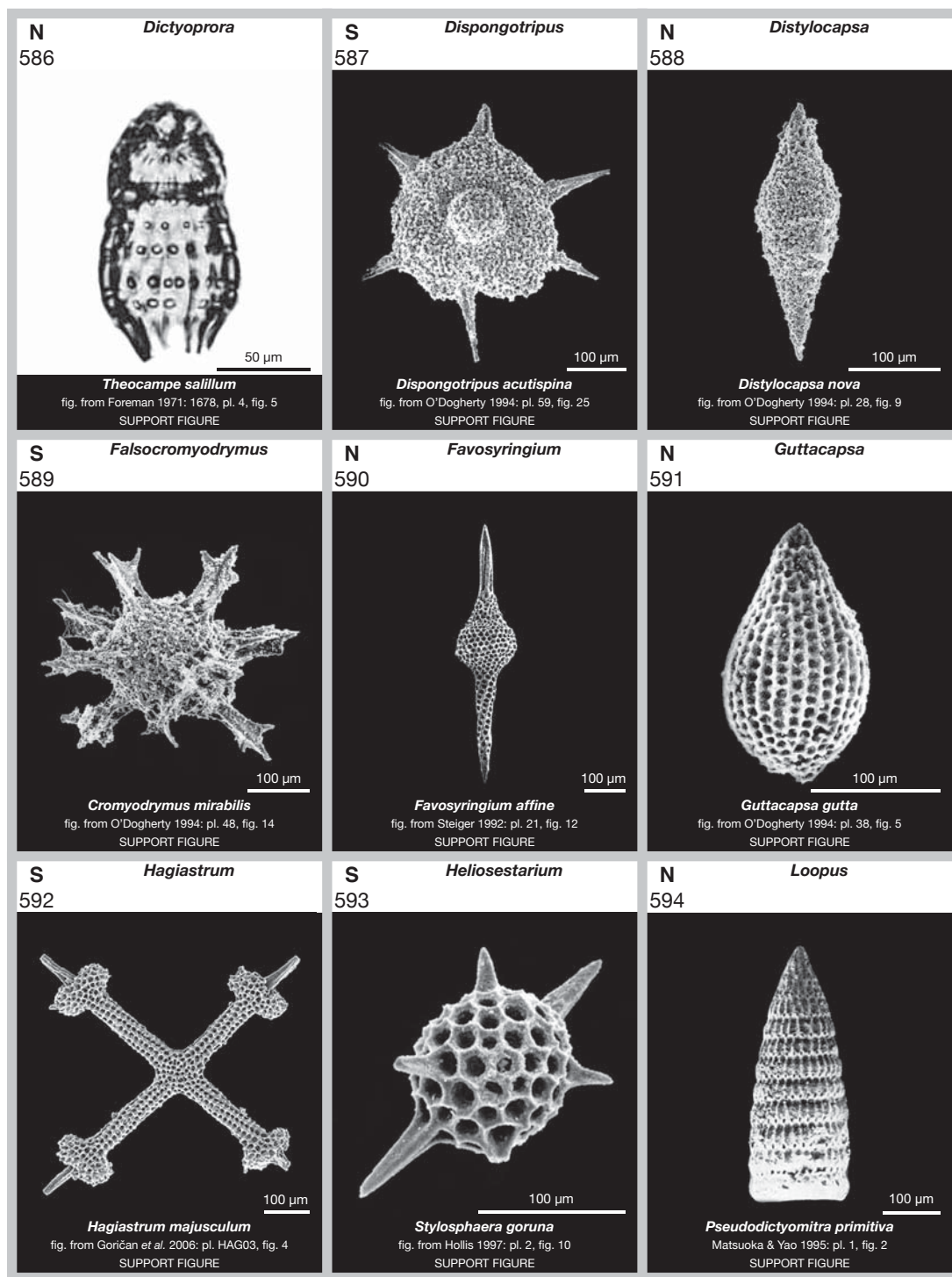
N 541 <i>Sethodiscus</i> Haeckel, 1881: 457 <i>Nomina dubia</i> N.D.  50 µm <i>Sethodiscus tholus</i> Rüst, 1885: 306, pl. 36 (11), fig. 12 <i>NOMEN DUBIUM</i>	N 542 <i>Siphocampium</i> Haeckel, 1881: 437 <i>Nomina dubia</i> N.D.  50 µm <i>Siphocampium accrescens</i> Rüst, 1885: 311, pl. 38 (13), fig. 11 <i>NOMEN DUBIUM</i>	S 543 <i>Sphaerocalpis</i> Wisniewski, 1888: 687 <i>Nomina dubia</i> N.D.  50 µm <i>Sphaerocalpis haeckelii</i> Wisniewski, 1888: 687, pl. 13, fig. 55 <i>NOMEN DUBIUM</i>
S 544 <i>Spongasteriscus</i> Haeckel, 1882: 474 <i>Nomina dubia</i> N.D.  100 µm <i>Spongasteriscus dunikowskyi</i> Rüst, 1885: 301, pl. 34 (9), fig. 11 <i>NOMEN DUBIUM</i>	S 545 <i>Spongechinus</i> Haeckel, 1881: 455 <i>Nomina dubia</i> N.D.  100 µm <i>Spongechinus multiaculeatus</i> Dunikowski, 1882: 189, pl. 5, fig. 60 <i>NOMEN DUBIUM</i>	S 546 <i>Spongoacanthus</i> Squinabol, 1903b: 118 <i>Nomina dubia</i> N.D.  100 µm <i>Spongoacanthus horridus</i> Squinabol, 1903b: 118, pl. 10, fig. 9 <i>NOMEN DUBIUM</i>
S 547 <i>Spongocyrtis</i> Dunikowski, 1882: 191 <i>Nomina dubia</i> N.D.  100 µm <i>Spongocyrtis montisovis</i> Dunikowski, 1882: 191, pl. 6, fig. 67 <i>NOMEN DUBIUM</i>	S 548 <i>Spongoplegma</i> Haeckel, 1881: 455 <i>Nomina dubia</i> N.D.  100 µm <i>Spongoplegma urschlaunense</i> Rüst, 1885: 292, pl. 29 (4), fig. 9 <i>NOMEN DUBIUM</i>	S 549 <i>Staurodictya</i> Haeckel, 1881: 459 <i>Nomina dubia</i> N.D.  100 µm <i>Staurodictya beneckei</i> Rüst, 1885: 296, pl. 32 (7), fig. 1 <i>NOMEN DUBIUM</i>

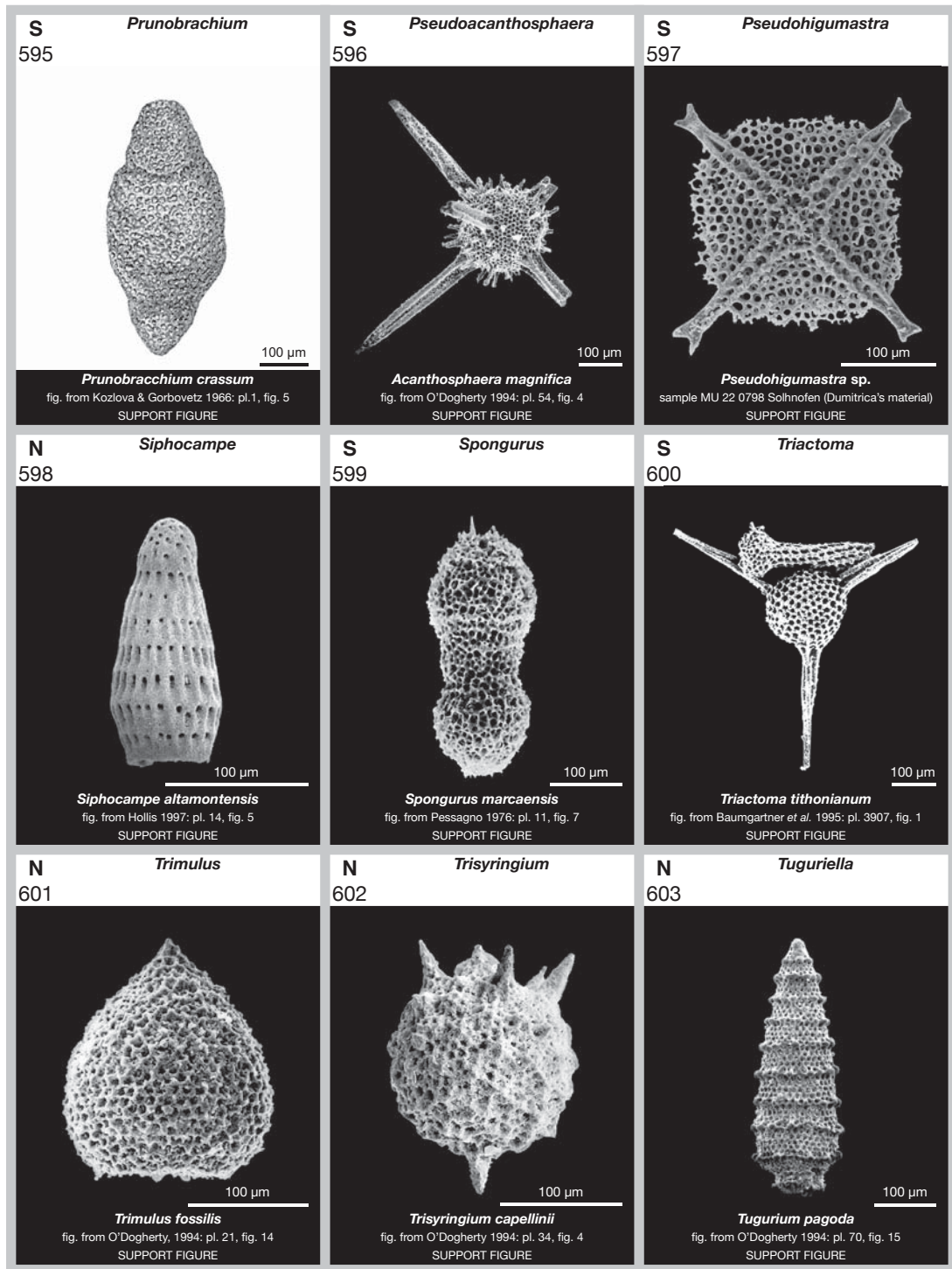


S 559 <i>Thecosphaera</i> Haeckel, 1881: 452 <i>Nomina dubia</i> N.D.  <i>Thecosphaera unica</i> Rüst, 1885: 292, pl. 29 (4), fig. 8 NOMEN DUBIUM	N 560 <i>Theocorys</i> Haeckel, 1881: 434 <i>Nomina dubia</i> N.D.  <i>Theocorys morchellula</i> Rüst, 1885: 308, pl. 37 (12), fig. 6 NOMEN DUBIUM	N 561 <i>Theopodium</i> Haeckel, 1881: 435 <i>Nomina dubia</i> N.D.  <i>Theopodium micropus</i> Rüst, 1885: 309, pl. 37 (12), fig. 15 NOMEN DUBIUM
N 562 <i>Tholusus</i> Tikhomirova, 1989: 32 <i>Nomina dubia</i> N.D.  <i>Tholusus tumidus</i> Tikhomirova, 1989: 32, pl. 5, fig. 4 NOMEN DUBIUM	N 563 <i>Trekljama</i> Tikhomirova, 1989: 33 <i>Nomina dubia</i> N.D.  <i>Trekljama guttiformis</i> Tikhomirova, 1989: 34, pl. 2, fig. 6 NOMEN DUBIUM	N 564 <i>Tricolacyrtis</i> Hojnos, 1916: 351 <i>Nomina dubia</i> N.D.  <i>Tricolacyrtis ligustica</i> Hojnos, 1916: 351, pl. 3, fig. 13 NOMEN DUBIUM
N 565 <i>Tricolocampe</i> Haeckel, 1881: 434 <i>Nomina dubia</i> N.D.  <i>Tricolocampe clepsydra</i> Rüst, 1885: 307, pl. 37 (12), fig. 3 NOMEN DUBIUM	S 566 <i>Trigonactura</i> Haeckel, 1881: 458 <i>Nomina dubia</i> N.D.  <i>Trigonactura weismannii</i> Rüst, 1885: 294, pl. 30 (5), fig. 5 NOMEN DUBIUM	S 567 <i>Trigonodiscus</i> Neviani, 1900: 651 <i>Nomina dubia</i> N.D.  <i>Trigonodiscus grizzanensis</i> Neviani, 1900: 651, pl. 9, figs 16, 17 NOMEN DUBIUM



S 577 <i>Xiphodictya</i> Haeckel, 1881: 459 Nomina dubia N.D.  100 µm <i>Xiphodictya teretispinosa</i> Rüst, 1885: 295, pl. 31 (6), fig. 10 NOMEN DUBIUM	S 578 <i>Xiphostaurus</i> Vinassa de Regny, 1898: 4 Nomina dubia N.D.  100 µm <i>Xiphostaurus titonicus</i> Vinassa de Regny, 1899: 226, pl. 17 [1], fig. 34 NOMEN DUBIUM	N 579 <i>Zagortchevella</i> Tikhomirova, 1989: 35 Nomina dubia N.D.  100 µm <i>Zagortchevella vallis</i> Tikhomirova, 1989: 36, pl. 2, fig. 8 NOMEN DUBIUM
S 580 <i>Acanthocircus</i>  100 µm <i>Acanthocircus irregularis</i> fig. from O'Dogherty 1994: pl. 46, fig. 17 SUPPORT FIGURE	N 581 <i>Botryometra</i>  100 µm <i>Lithomelissa heros</i> fig. from Petrushevskaya 1981: 310, fig. 474 SUPPORT FIGURE	S 582 <i>Dactyliodiscus</i>  100 µm <i>Dactyliodiscus cayeuxi</i> fig. from O'Dogherty 1994: pl. 61, fig. 21 SUPPORT FIGURE
S 583 <i>Dactyliosphaera</i>  100 µm <i>Dactyliosphaera silviae</i> fig. from De Wever et al. 2001: fig. 77 (1) SUPPORT FIGURE	S 584 <i>Darvelus</i>  100 µm <i>Darvelus primus</i> fig. from Hull 1995: 18, pl. 1, fig. 3 SUPPORT FIGURE	S 585 <i>Dicerosaturnalis</i>  100 µm <i>Dicerosaturnalis angustus</i> fig. from Dumitrica & Jud 2005: pl. 2, fig. 15 SUPPORT FIGURE





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