

Capítulo 17

LÁMINAS/*PLATES*

PLATE 1

Chubbina jamaicensis Robinson 1968

1, 2, 4, 5: megalospheric forms

3: microspheric form

Transmitted light micrographs of thinsections of cemented carbonates of Maastrichtian age. Sample *Jam-2* from Jamaica, collected close to the type locality. Observe the streptospiral coiling that characterize this genus. 1: axial section (x50); 2: equatorial section (x50); 3: equatorial section (x25); 4, 5: oblique-centered sections near to axial plane (x50).

ABBREVIATIONS: **ap:** *aperture/abertura*; **c chl:** cortical *chamberlet/camarilla* cortical; **f:** *flexostyle/canal flexostílico*; **flo:** *floor/suelo*; **m chl:** medullar *chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **s:** *septum/septo*; **sh:** *shaft*; **sl:** *septula/tabique*

PLATE 1

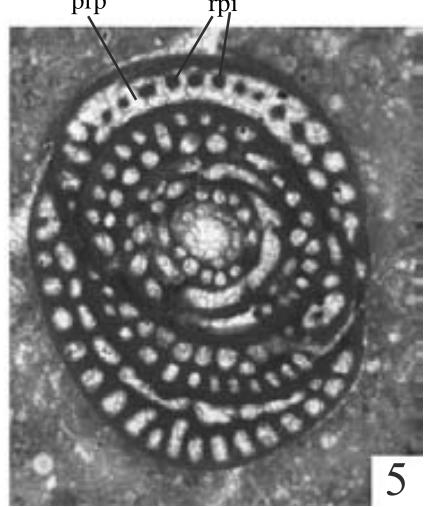
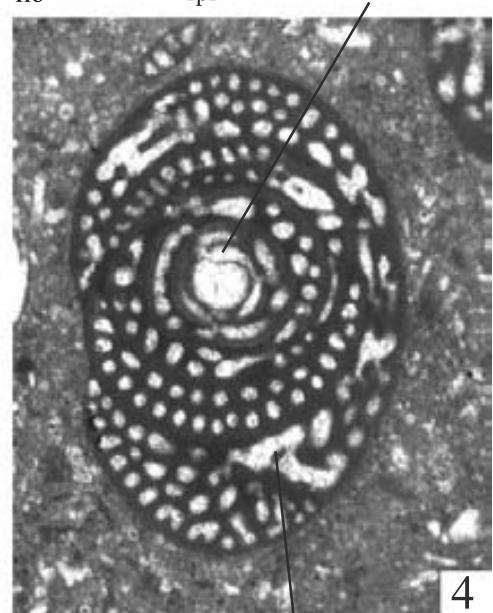
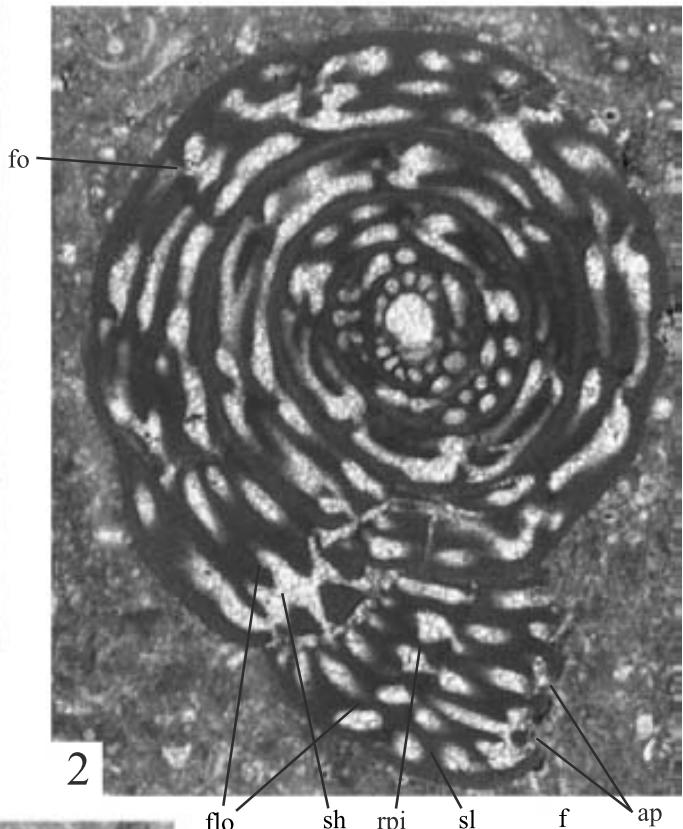
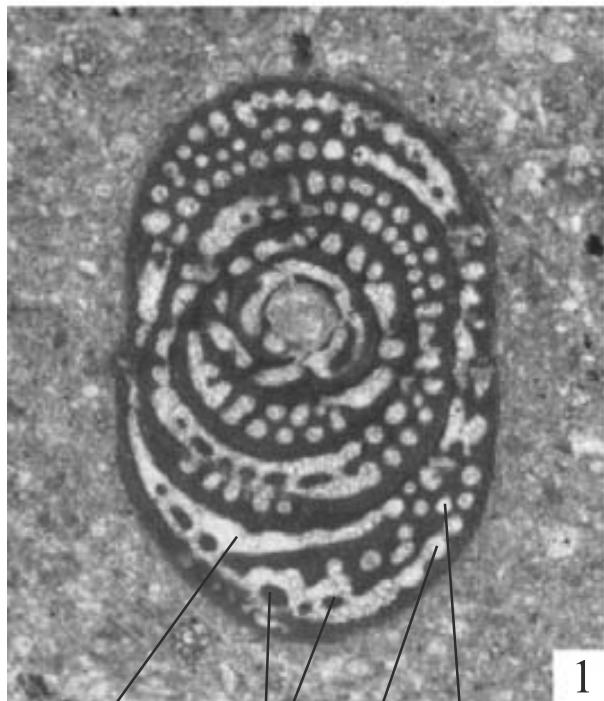


PLATE 2

Chubbina jamaicensis Robinson 1968

megalospheric forms (x50)

Transmitted light micrographs of thinsections of cemented carbonates of Maastrichtian age. Sample *Jam-2* from Jamaica, collected close to the type locality. Observe the streptospiral coiling that characterize this genus. 1, 3, 6: oblique-centered sections near to axial plane; 2: equatorial section; 4, 5: sub-equatorial sections.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **f:** *flexostyle/canal flexostílico*; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **s:** *septum/septo*; **sh:** *shaft*; **sl:** *septula/tabique*

PLATE 2

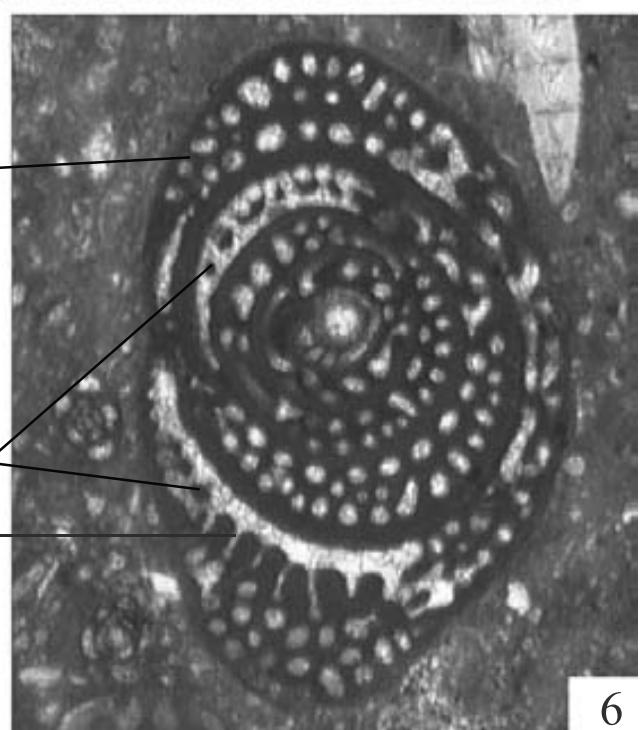
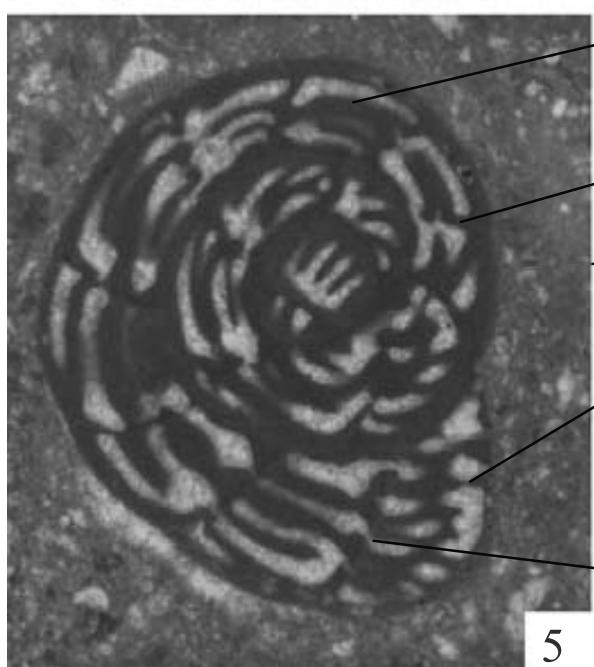
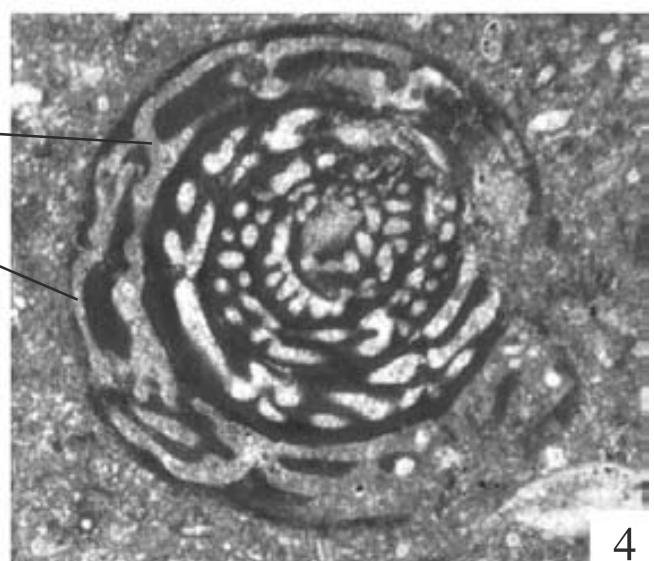
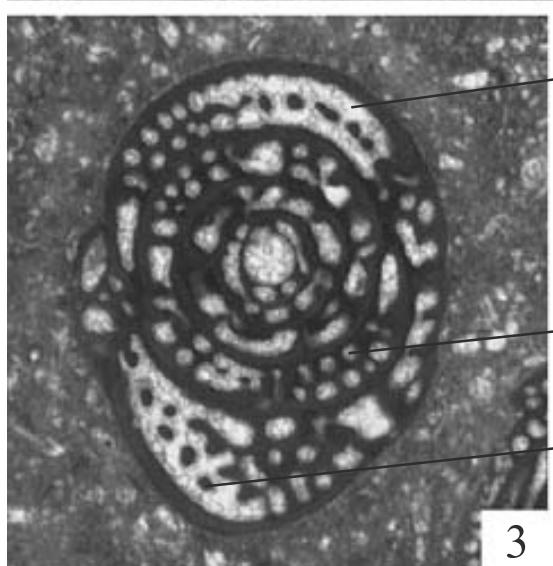
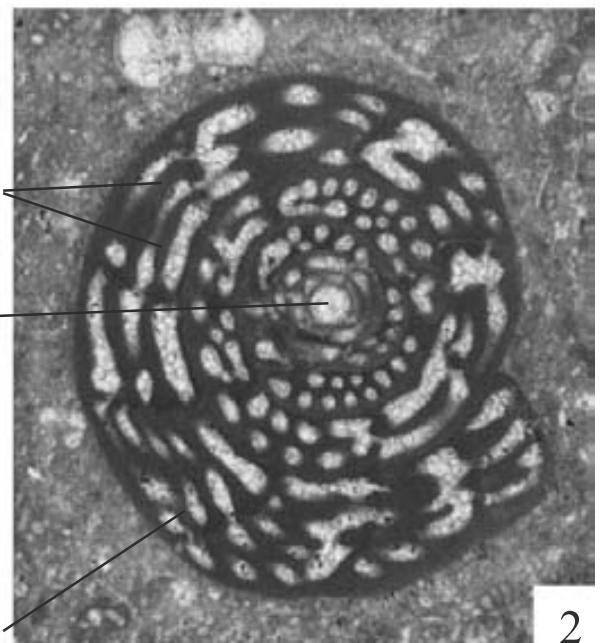


PLATE 3

Chubbina jamaicensis Robinson 1968

1 to 6 megalospheric forms (x50)

7 microspheric form (x25)

Transmitted light micrographs of thinsections of cemented carbonates of Maastrichtian age. Sample *Jam-2* from Jamaica, collected close to the type locality. 1: sub-axial section; 2-6: tangential sections; 7: oblique section.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **s:** *septum/septo*; **sl:** *septula/tabique*

PLATE 3

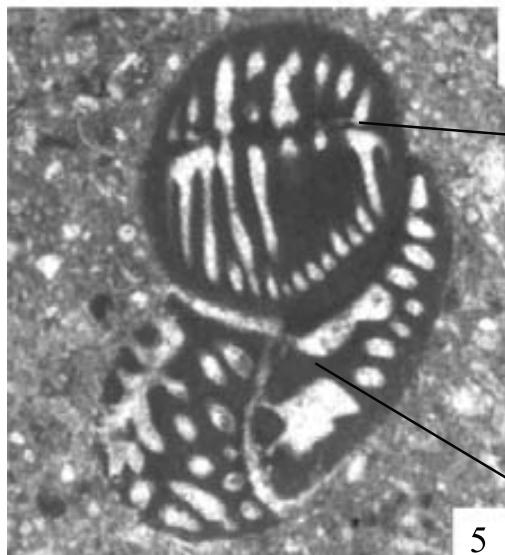
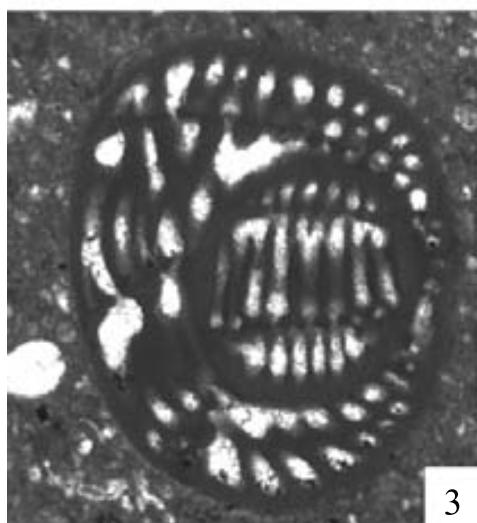
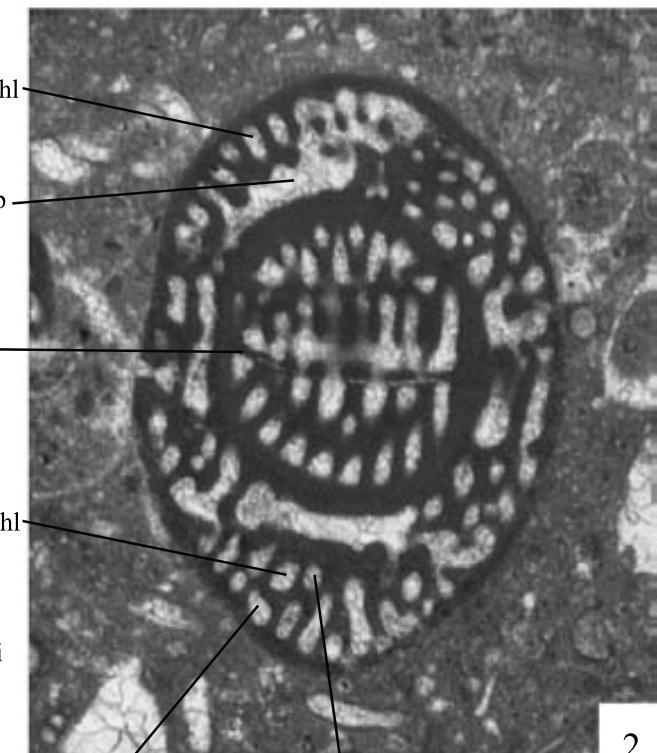
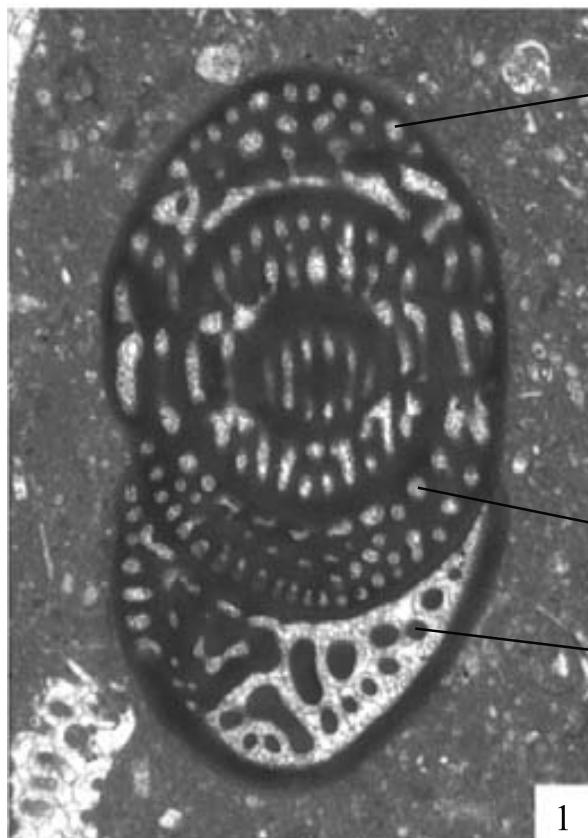


PLATE 4

Chubbina macgillavryi Robinson 1968

1 to 4: megalospheric forms

5. microspheric form

Transmitted light micrographs of thinsections of cemented carbonates of Campanian to Maastrichtian age. Sample VV-48 from Ocozocoautla, Chiapas (Mexico), collected close to the type locality. Observe the discoidal growth of microspheric form. 1, 4: axial sections (x50). 2: equatorial section (x50). 3: sub-equatorial section (x50). 5: oblique section (x12,5).

ABBREVIATIONS: **ap:** aperture/abertura; **c chl:** cortical chamberlet/camarilla cortical; **E:** embryo/embrión; **flo:** floor/suelo; **m chl:** medullar chamberlet/camarilla medular; **prp:** preseptal passage/espacio preseptal; **pstp:** postseptal passage/espacio postseptal; **rpi:** residual pillar/pilar residual;

PLATE 4

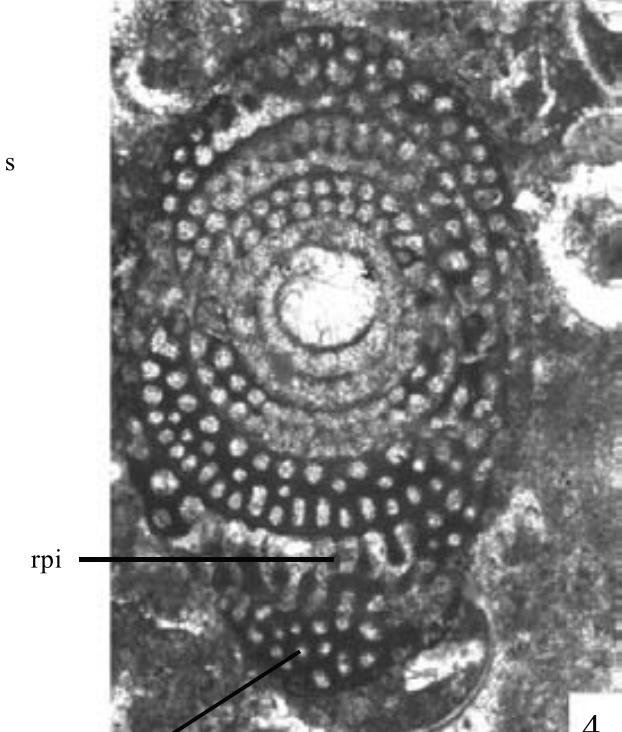
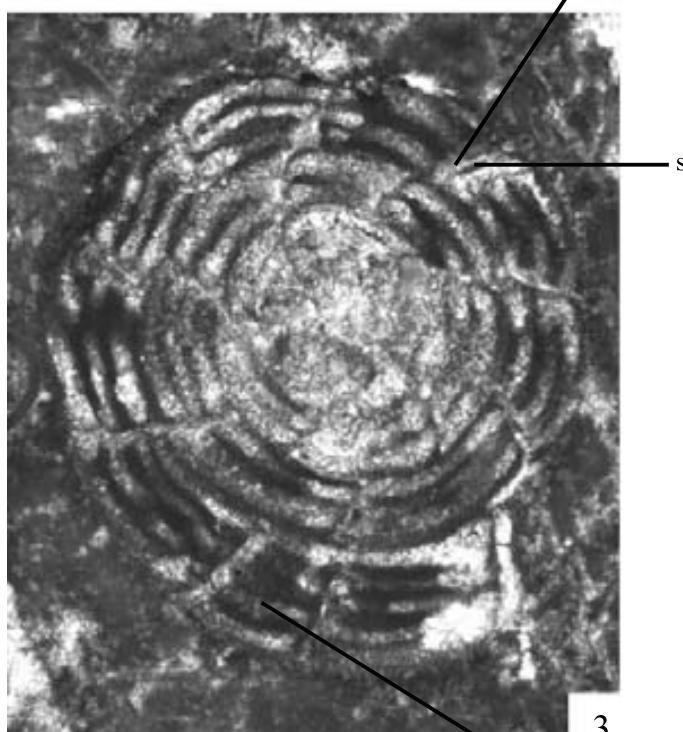
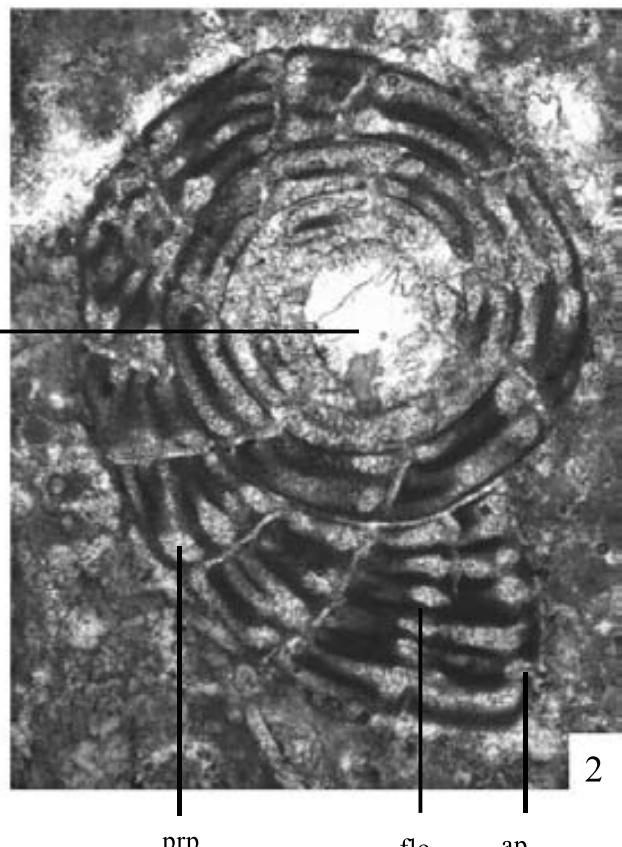
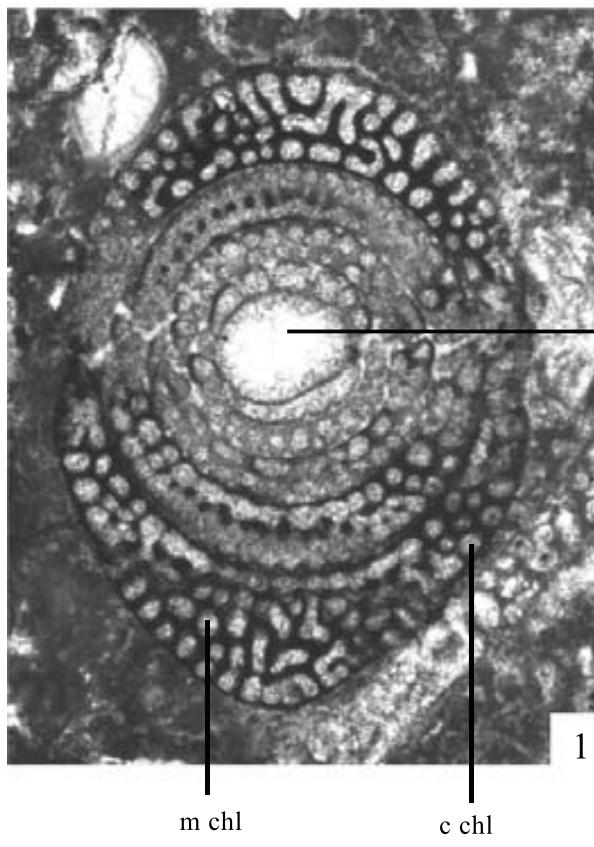


PLATE 5

Chubbina macgillavryi Robinson 1968

megalospheric forms (x50)

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age. Sample VV-48 from Ocozocoautla, Chiapas (Mexico), collected close to the type locality. 1, 6: equatorial sections; 2, 3, 5, 7: axial sections; 4: oblique section.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **flo:** floor/suelo; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **s:** *septum/septo*; **sl:** *septula/tabique*

PLATE 5

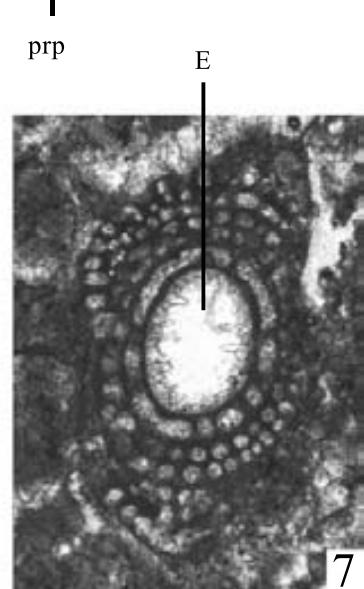
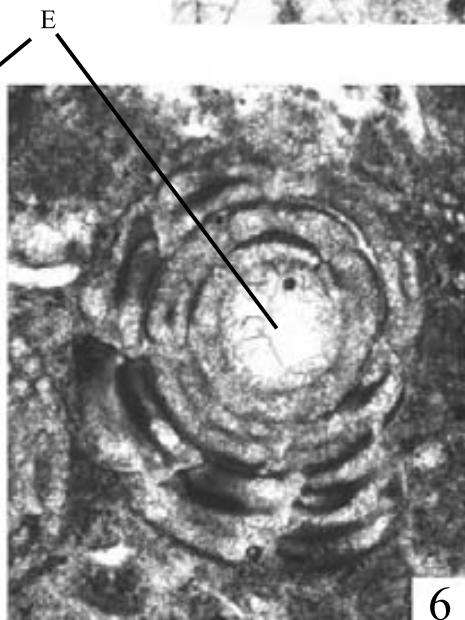
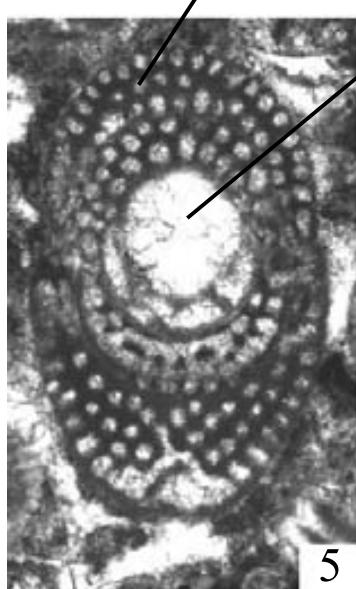
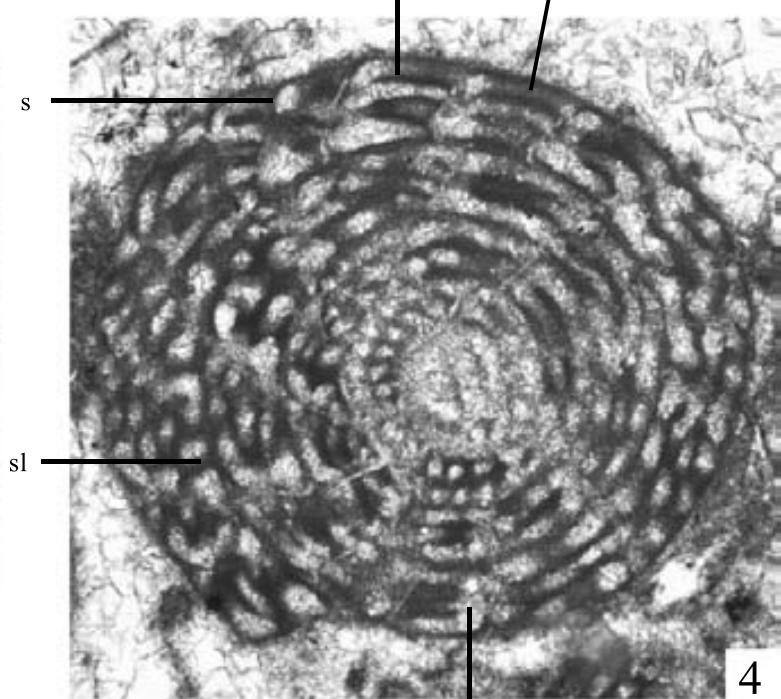
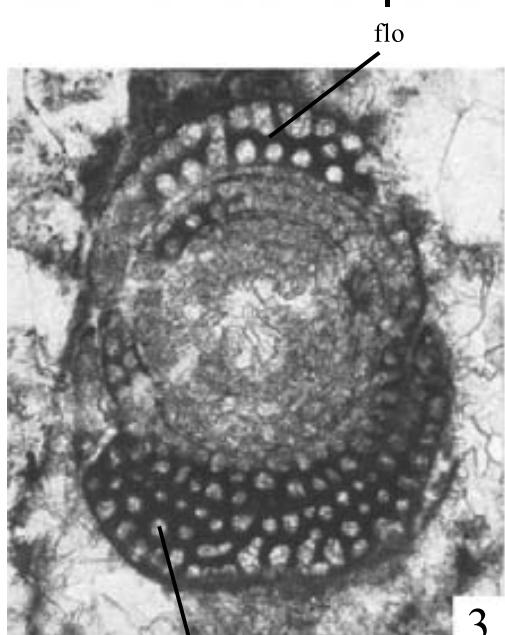
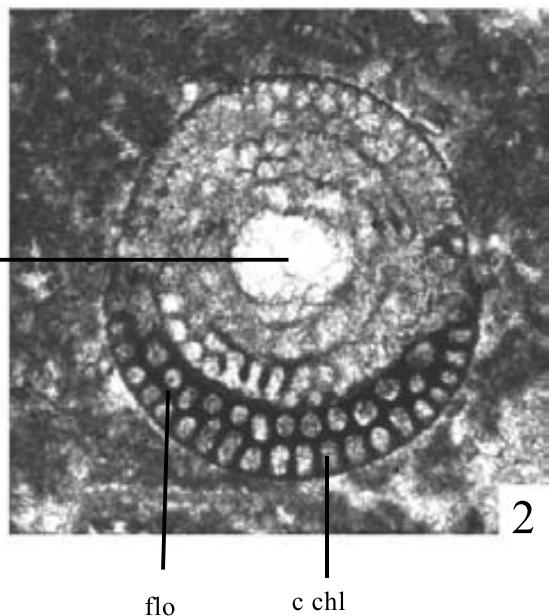
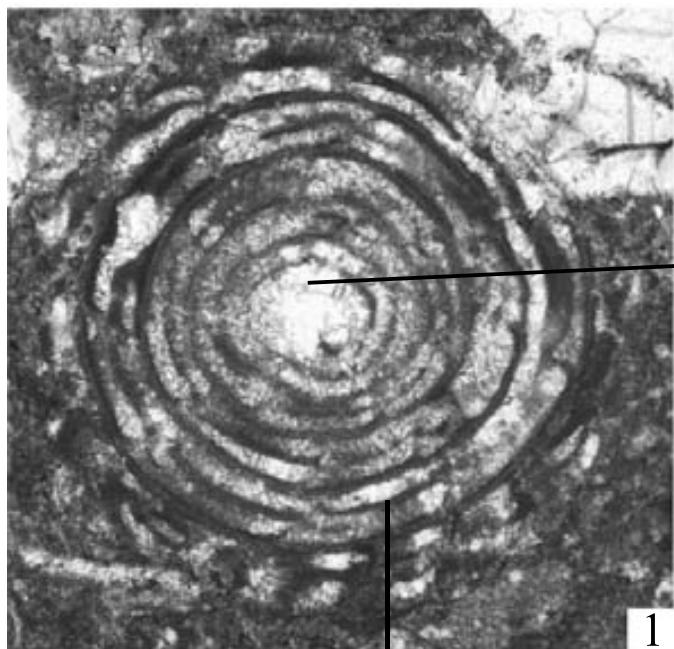


PLATE 6

Chubbina macgillavryi Robinson 1968

megalospheric forms

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age. Sample VV-48 from Ocozocoautla, Chiapas (Mexico), collected close to the type locality. 1, 4: oblique-non centered sections of megalospheric specimens (x50). 2, 6, 7, 9: tangential sections of megalospheric specimens (x50). 3, 5, 8: details (x100). Note the presence of a postseptal space.

ABBREVIATIONS: **c** **chl**: cortical *chamberlet/camarilla* cortical; **prp**: *preseptal passage/espacio preseptal*; **pstp**: *postseptal passage/espacio postseptal*; **rpi**: *residual pillar/pilar residual*; **s**: *septum/septo*; **sh**: *shaft*; **sl**: *septula/tabique*

PLATE 6

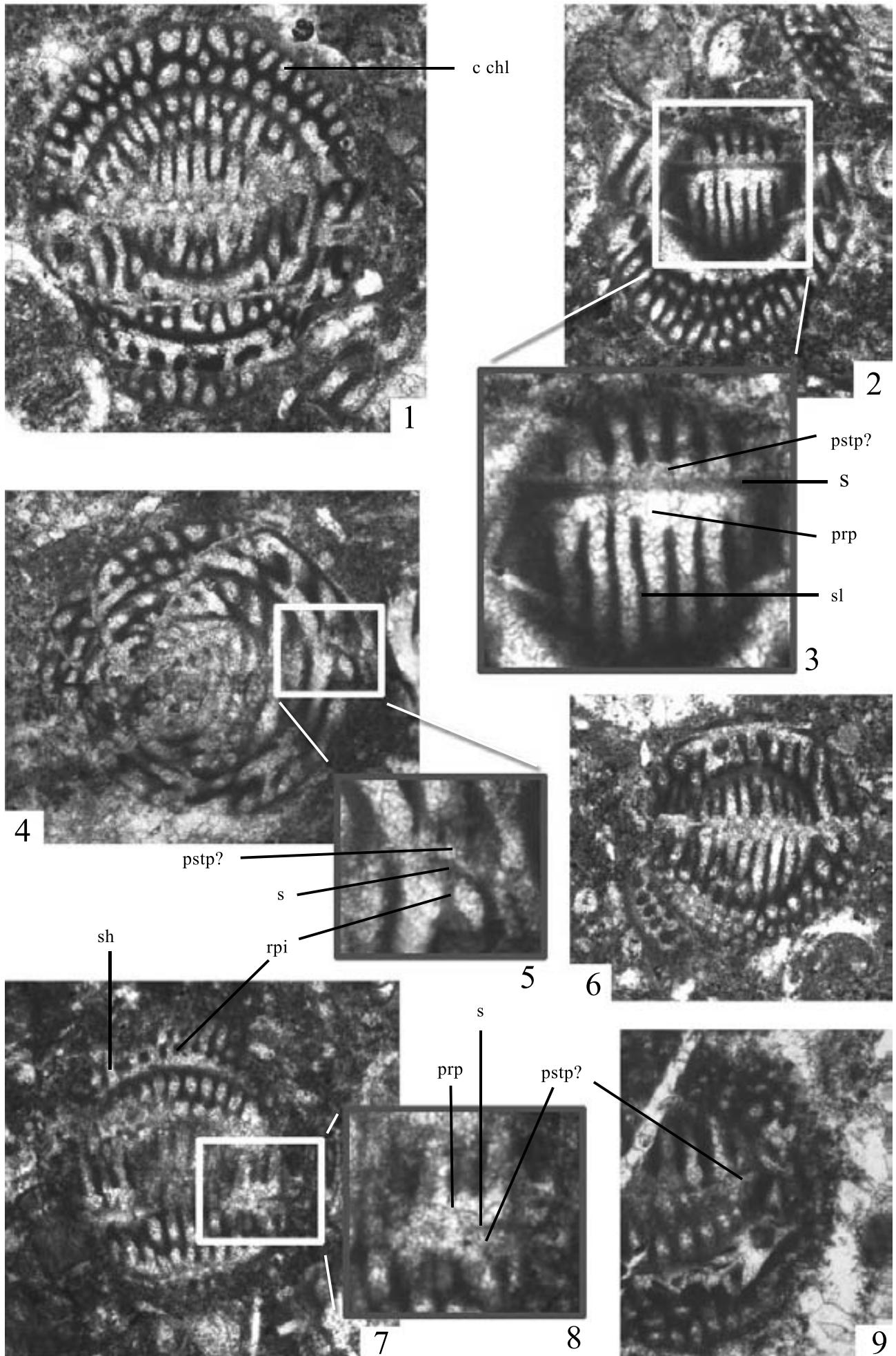


PLATE 7

Chubbina robinsoni n. sp.

megalospheric forms (x50)

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age, cut out from the including sediment of similar opaqueness. Sample VV-80 from Trinitaria, Chiapas (Mexico). Observe the streptospiral coiling that characterize this genus. 1, 2, 5, 7, 8, 13, 14: oblique-centered sections near to axial plane. 3, 4, 10, 11: equatorial sections. 9, 12, 15: sub-axial sections.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **flo:** floor/suelo; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal;* **rpi:** *residual pillar/pilar residual;* **sl:** *septula/tabique*

PLATE 7

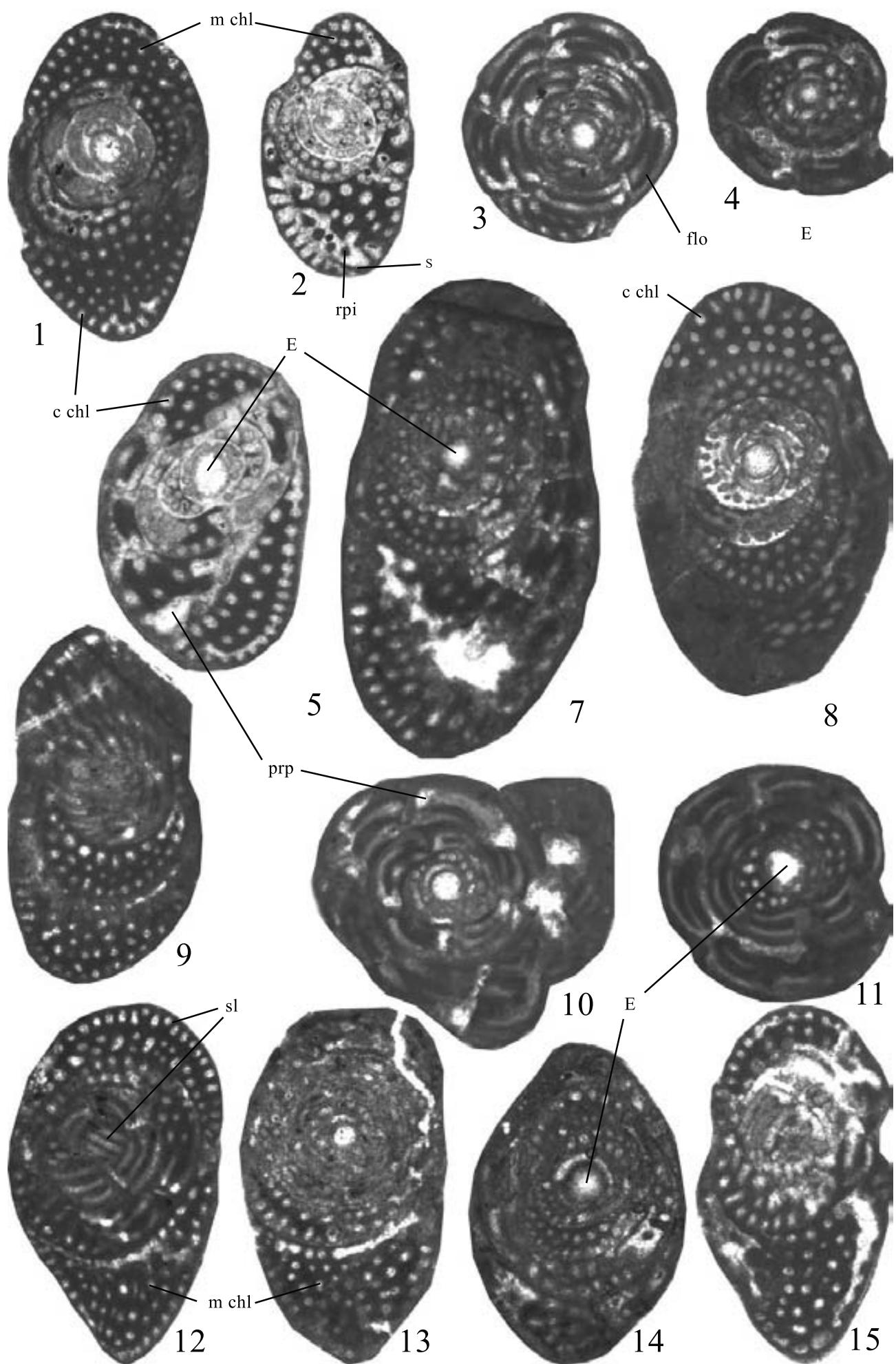


PLATE 8

Chubbina robinsoni n. sp.

1 to 5: megalospheric forms (x50)

6 and 7: microspheric forms (x50)

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age, cut out from the including sediment of similar opaquenes. Sample VV-80 from Trinitaria, Chiapas (Mexico). 1, 3: oblique section. 2, 6: transverse sections close to equatorial plane. 4: oblique-centered section close to equatorial plane. 5, 7: transverse sections close to axial plane.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **flo:** floor/suelo; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** preseptal passage/espacio preseptal; **rpi:** residual pillar/pilar residual; **s:** *septum/septo*; **sh:** shaft;

PLATE 8

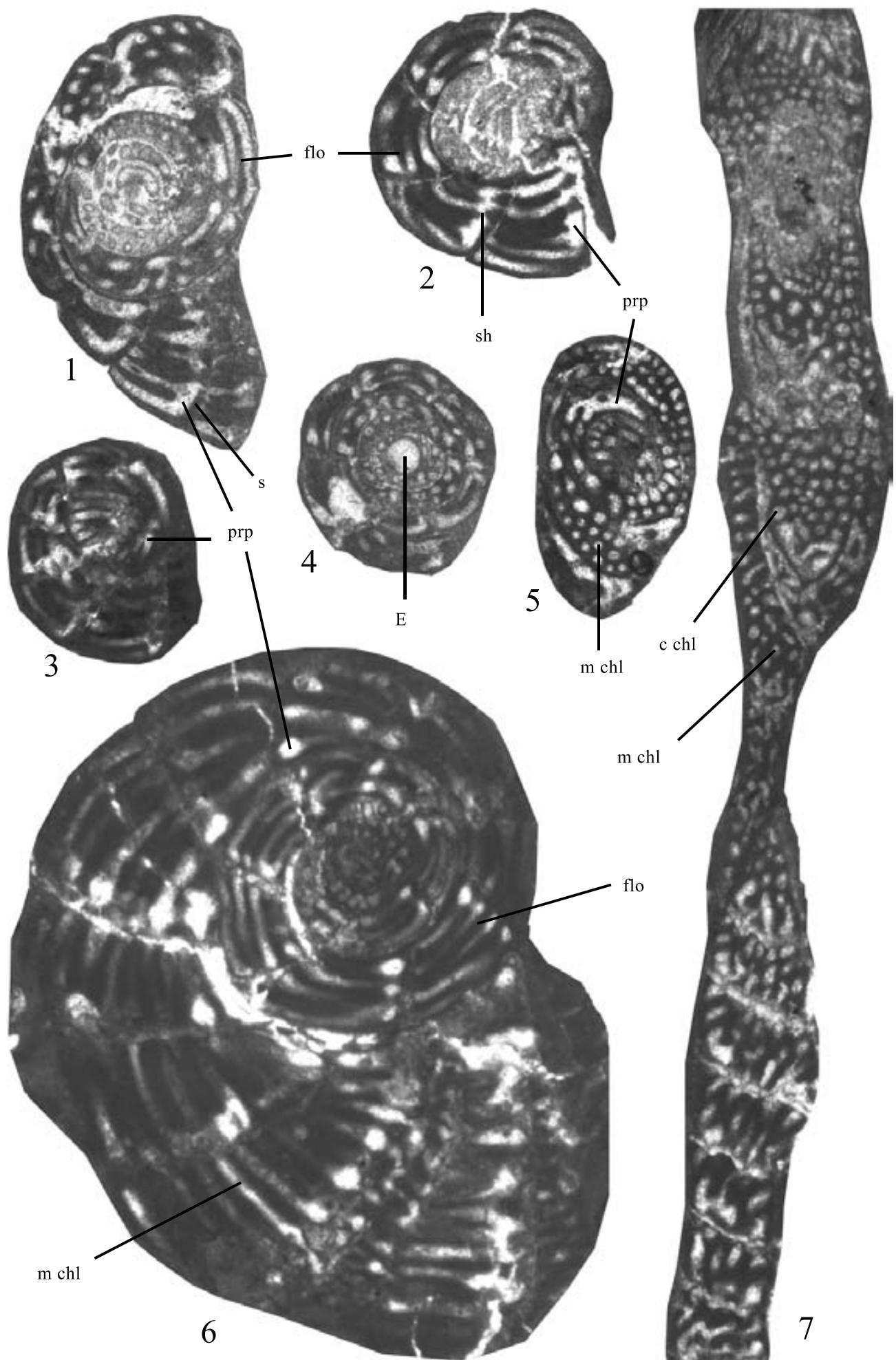


PLATE 9

Chubbina pecheuxi n. sp.

megalospheric forms (x50)

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age, cut out from the including sediment of similar opaqueness. Sample VV-80 from Trinitaria, Chiapas (Mexico). 1-6, 8, 9: axial sections. 7: oblique-centered section. 10, 11: equatorial sections. Note: 7 and 11 broken specimens.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **f:** *flexostyle/canal* flexostílico; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **s:** *septum/septo*; **sl:** *septula/tabique*

PLATE 9

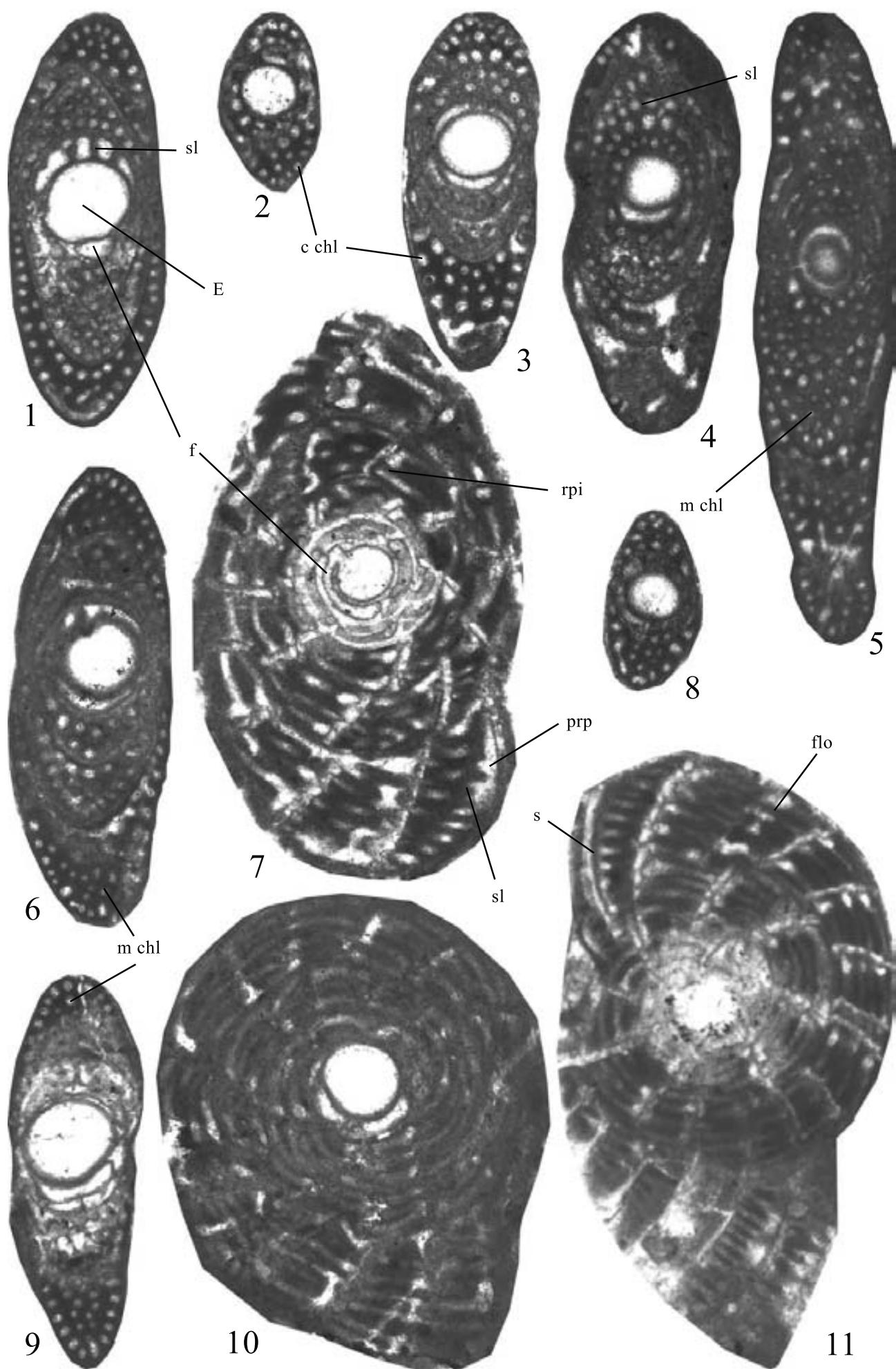


PLATE 10

Chubbina pecheuxi n. sp.

2: megalospheric form (x50)

1 and 3: microspheric forms (x50)

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age. Sample VV-80 from Trinitaria, Chiapas (Mexico). 1, 2: oblique-centered sections close to equatorial plane. 3: oblique section, probably from a microspheric form in a senior growth state.

ABBREVIATIONS: **E:** embryo/embrión; **f:** flexostyle/canal flexostílico; **flo:** floor/suelo; **m chl:** medullar chamberlet/camarilla medular; **prp:** preseptal passage/espacio preseptal; **sl:** septula/tabique

PLATE 10

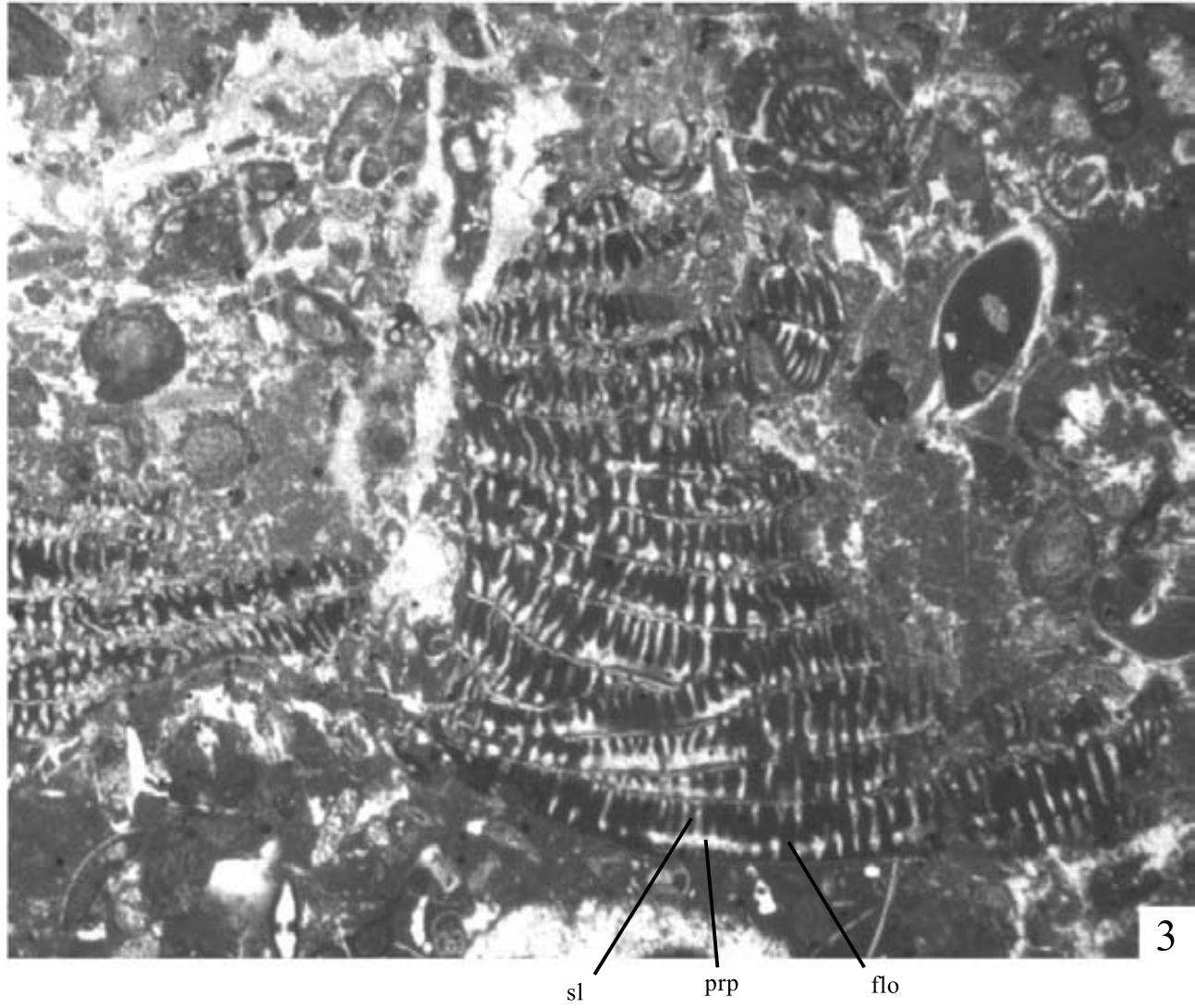
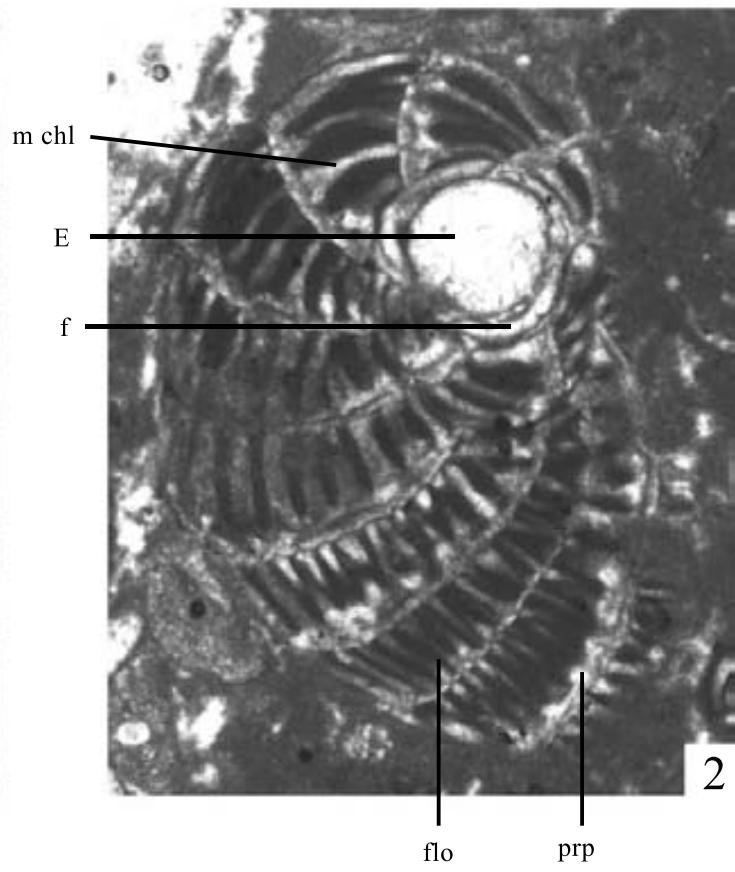
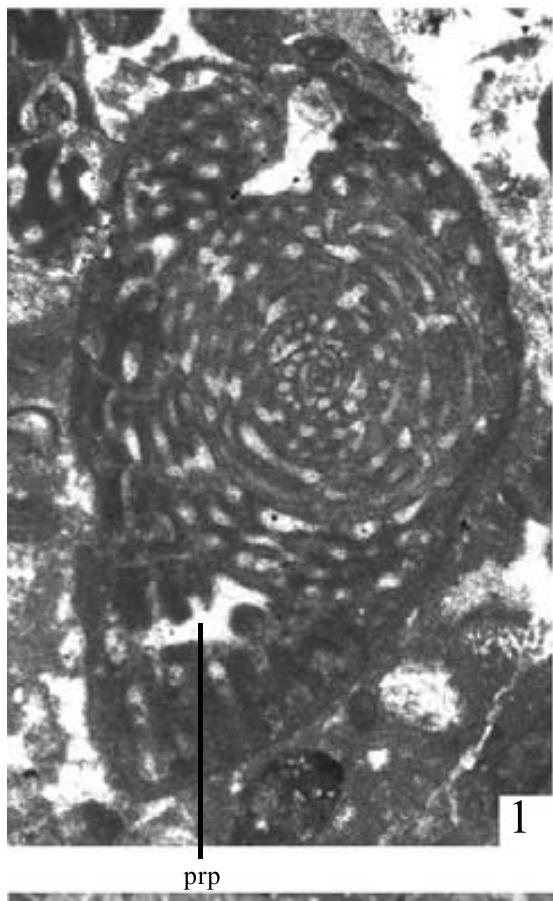


PLATE 11

Sellialveolina viallii Colalongo. 1963

megalospheric forms (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Cenomanian age. Sample *LC-42* from southern Apennines (Italy). 1: equatorial section. 2-4: oblique sections very close to axial plane.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **flo:** floor/suelo; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** preseptal passage/espacio preseptal; **rpi:** residual pillar/pilar residual; **sl:** *septula/tabique*

PLATE 11

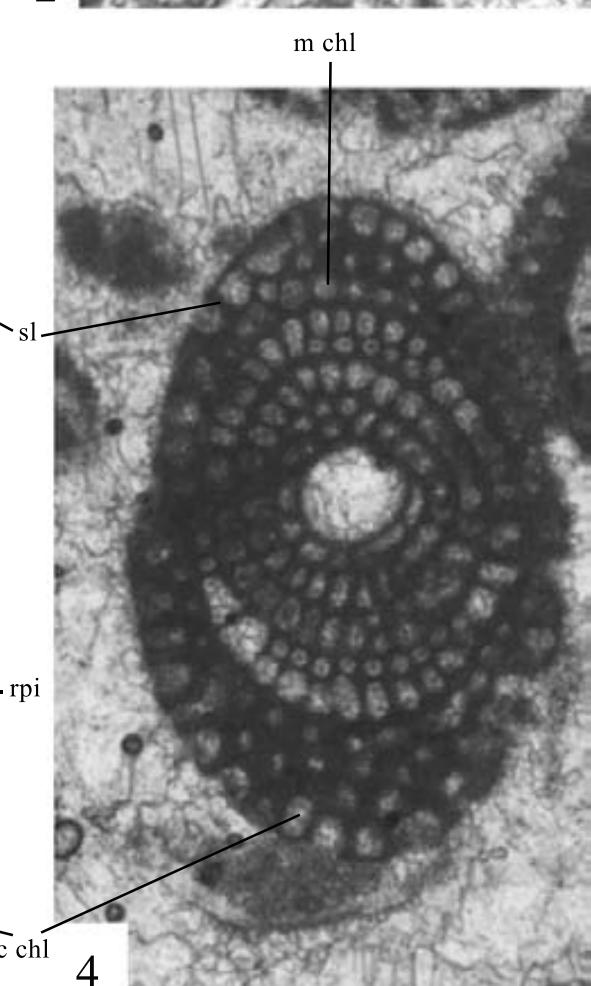
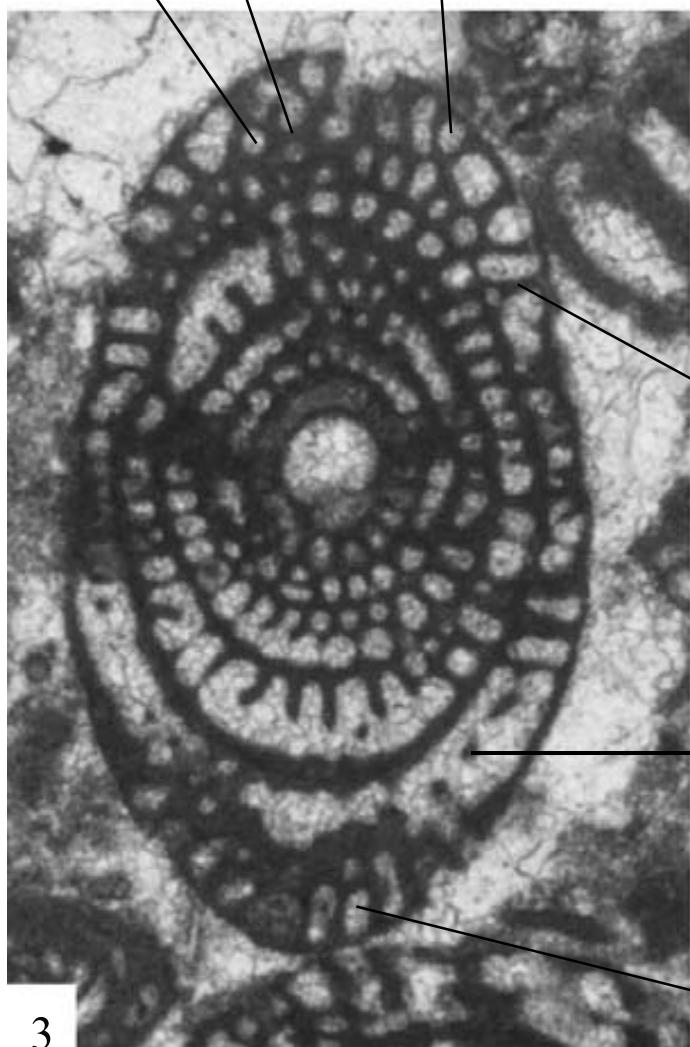
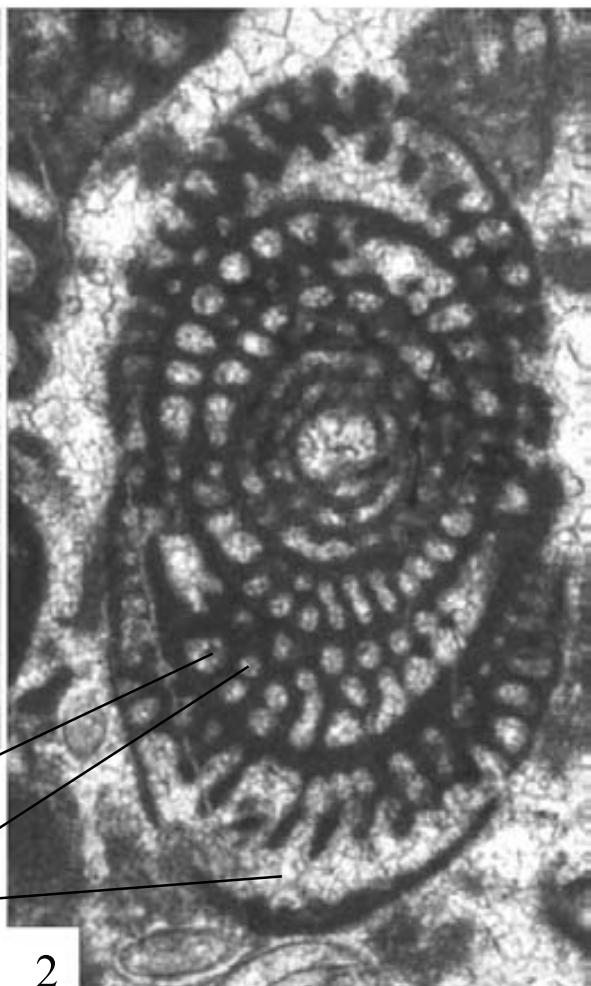
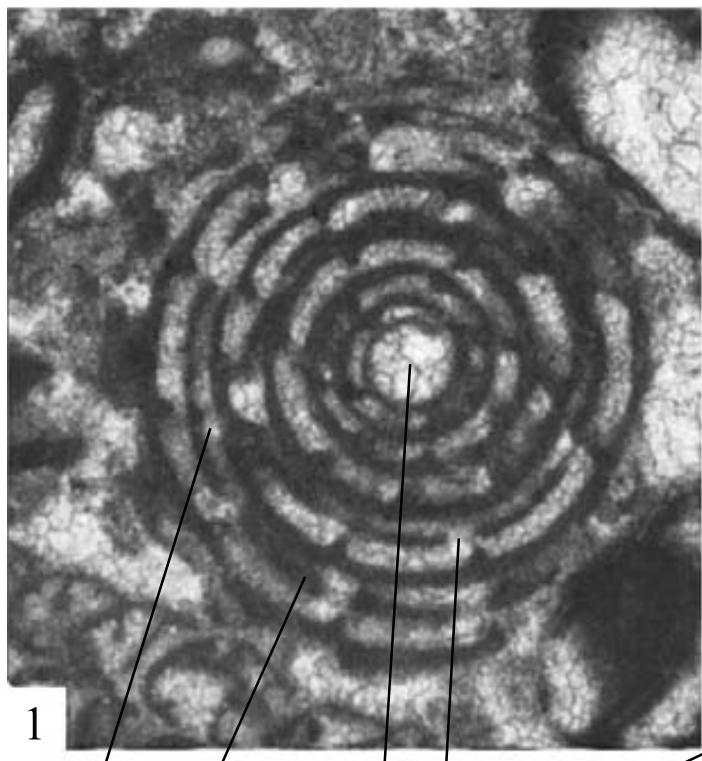


PLATE 12

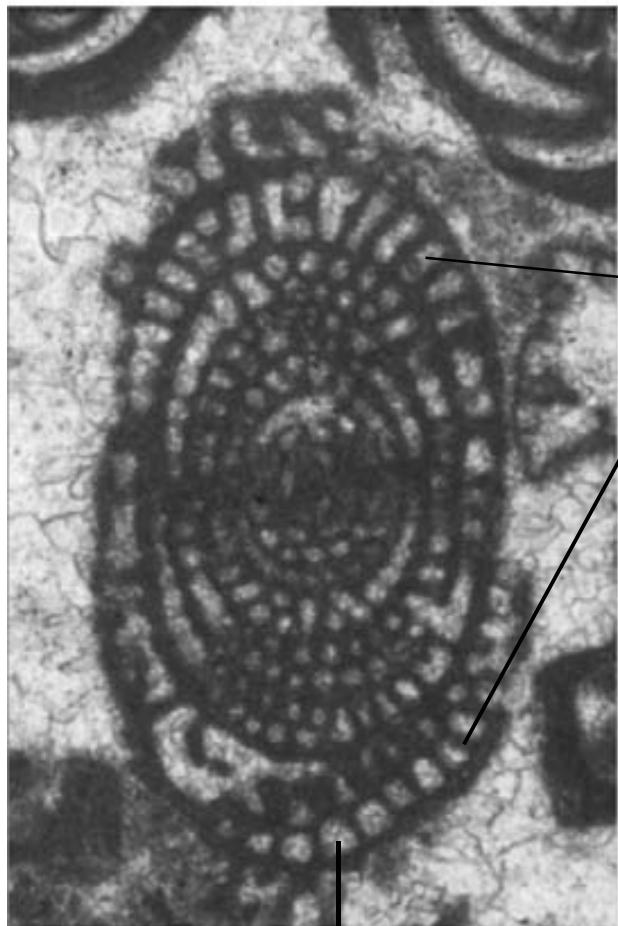
Sellialveolina viallii Colalongo. 1963

microspheric forms (x100)

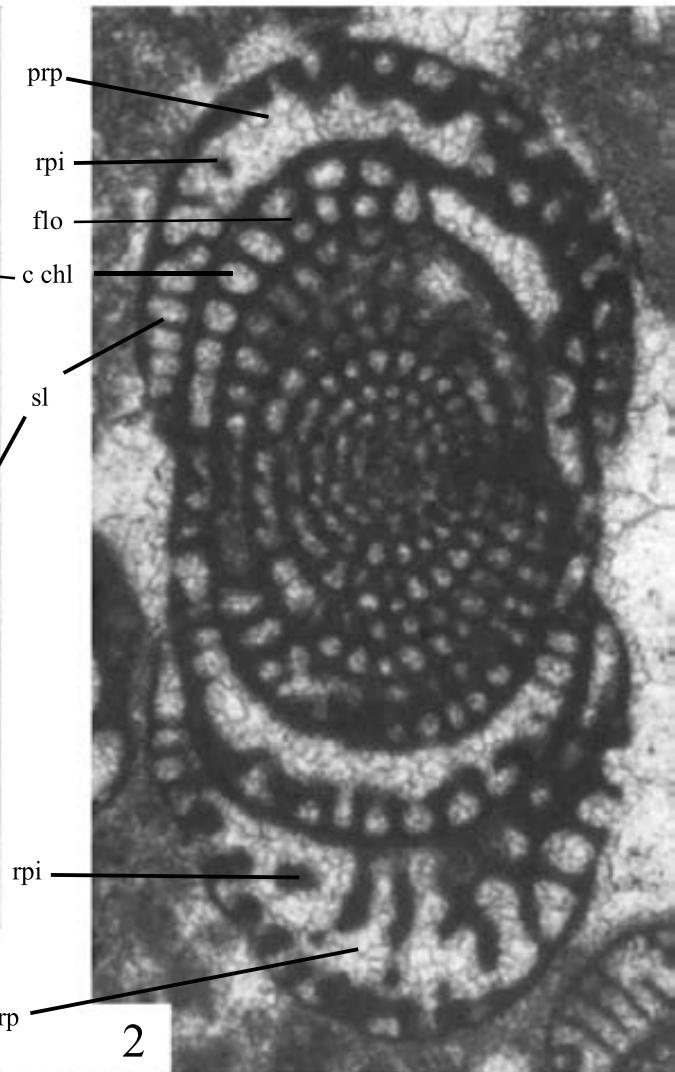
Transmitted light micrographs of thinsections of cemented carbonates of Cenomanian age. Sample *LC-42* from southern Apennines (Italy). 1, 2, 4: oblique-centered sections close to axial plane. 3: equatorial section.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **s:** *septum/septo*; **sl:** *septula/tabique*

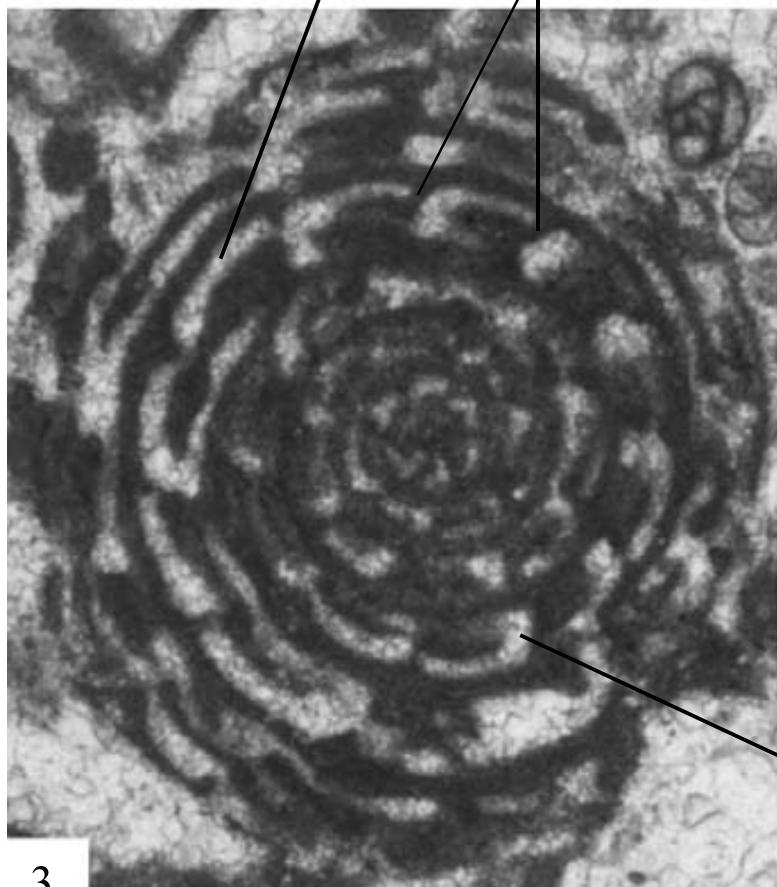
PLATE 12



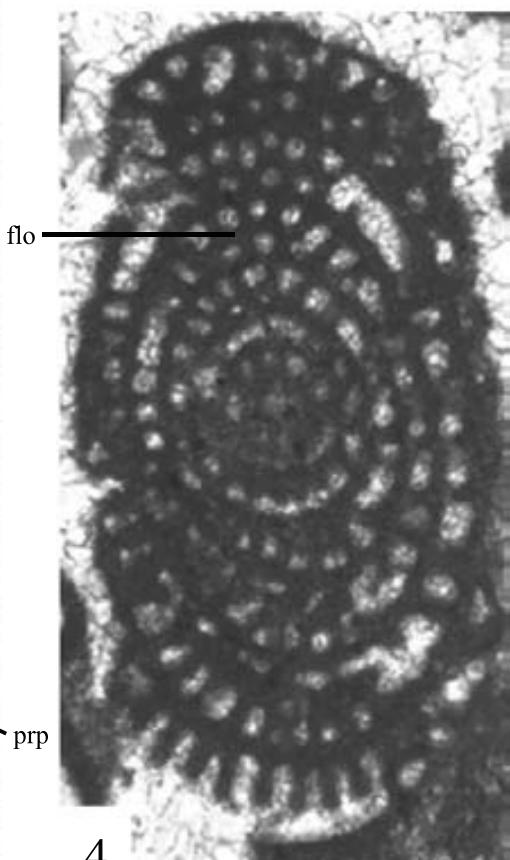
1



2



3



4

PLATE 13

Sellialveolina viallii Colalongo. 1963

1 to 9: megalospheric forms (x50)

10 to 13: microspheric forms (x50)

Transmitted light micrographs of thinsections of cemented carbonates of Cenomanian age. Sample *LC-42* from southern Apennines (Italy). 1-4: axial sections. 5, 6, 8: tangential sections. 7: oblique section. 9: equatorial section. 10: oblique section close to equatorial plane. 11, 12: oblique sections close to axial plane. 13: equatorial section.

ABBREVIATIONS: **ap:** aperture/abertura; **c chl:** cortical chamberlet/camarilla cortical; **c fo:** cortical foramen; **f:** flexostyle/canal flexostílico; **flo:** floor/suelo; **m chl:** medullar chamberlet/camarilla medular; **prp:** preseptal passage/espacio preseptal; **rpi:** residual pillar/pilar residual; **s:** septum/septo; **sh:** shaft; **sl:** septula/tabique

PLATE 13

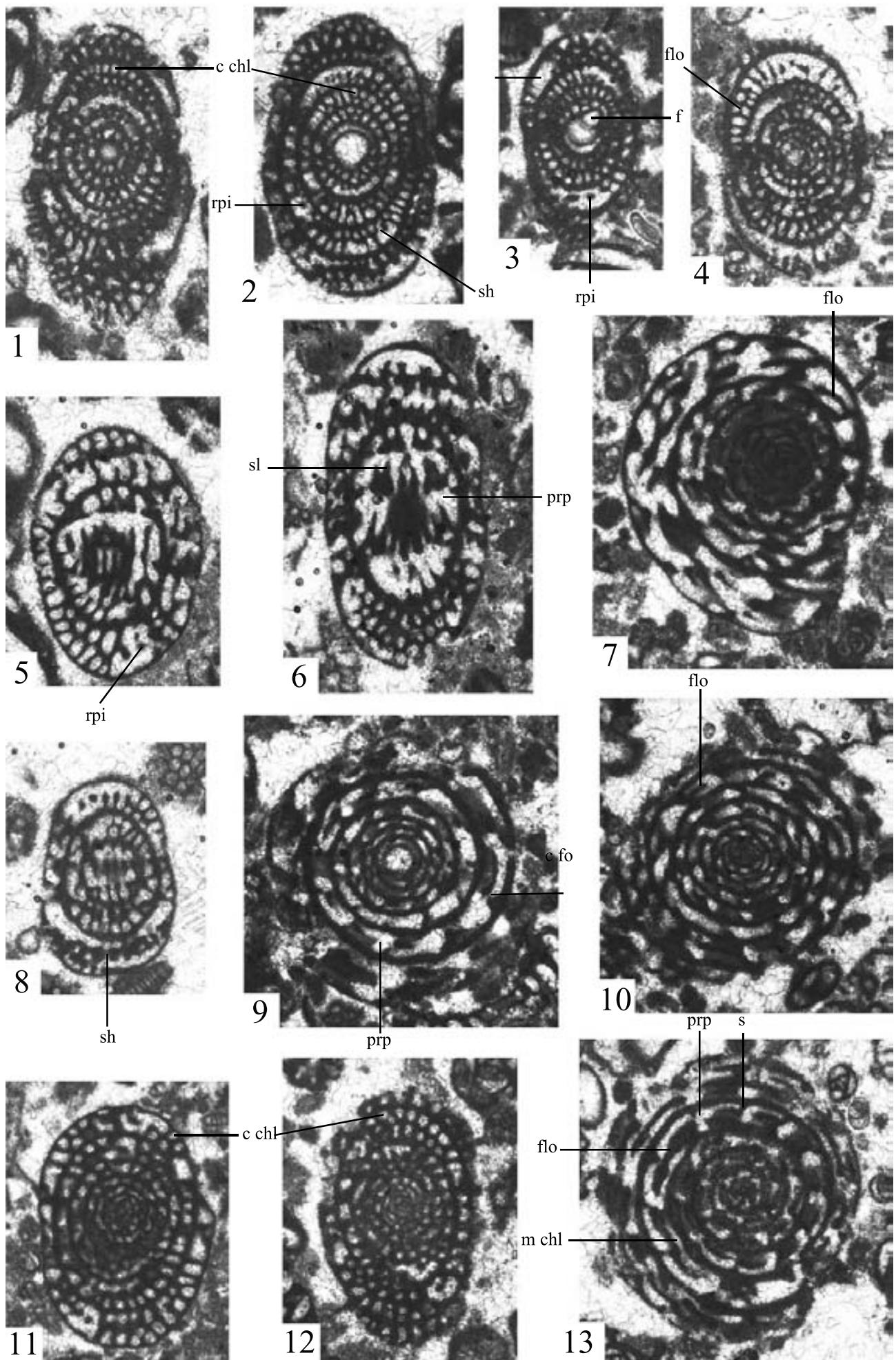


PLATE 14

Sellialveolina quintanensis n. sp.

megalospheric forms (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Cenomanian age, cut out from the including sediment of similar opaqueness. Samples 95-xx from Puerto de Villaroya, Iberian range, (Spain). 1: oblique-centered section. 2: tangential section. 3-5: axial sections. 6-11: oblique-centered sections close to axial plane. 12: oblique-centered section.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **m chl:** medullar *chamberlet/camarilla* medular; **prp:** preseptal passage/espacio preseptal; **rpi:** residual pillar/pilar residual; **s:** *septum/septo*; **sl:** *septula/tabique*

PLATE 14

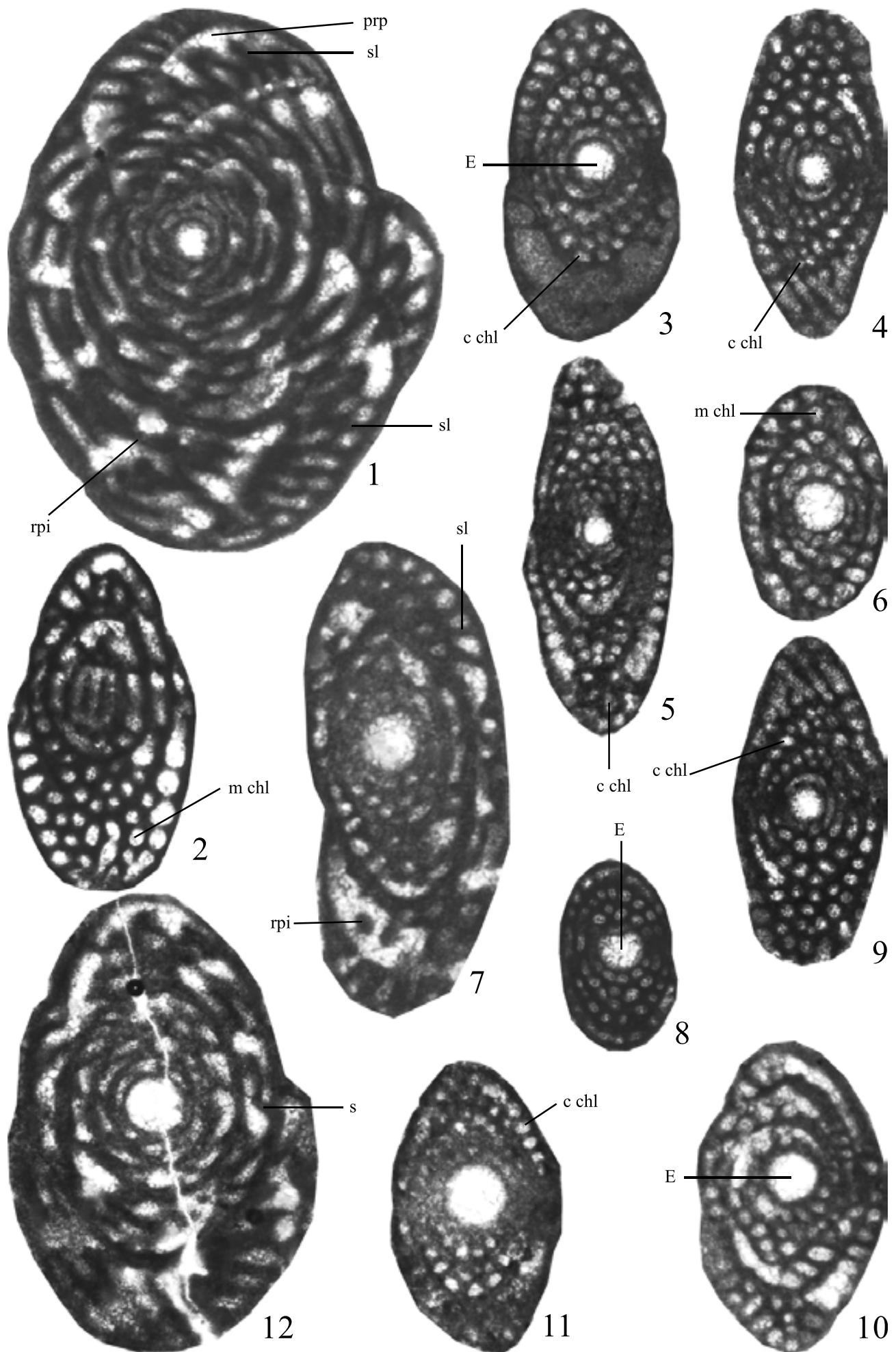


PLATE 15

Sellialveolina quintanensis n. sp.

1, 4 to 7: megalospheric? forms (x100)

2, 3: microspheric? forms (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Cenomanian age, cut out from the including sediment of similar opaqueness. Samples 95-11 and 95-40 from Puerto de Villaroya, Iberian range, (Spain). 1: oblique section. 2, 3: sub-axial section. 4, 6: oblique-tangential sections. 5, 7: tangential sections.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal;* **s:** *septum/septo;* **sl:** *septula/tabique*

PLATE 15

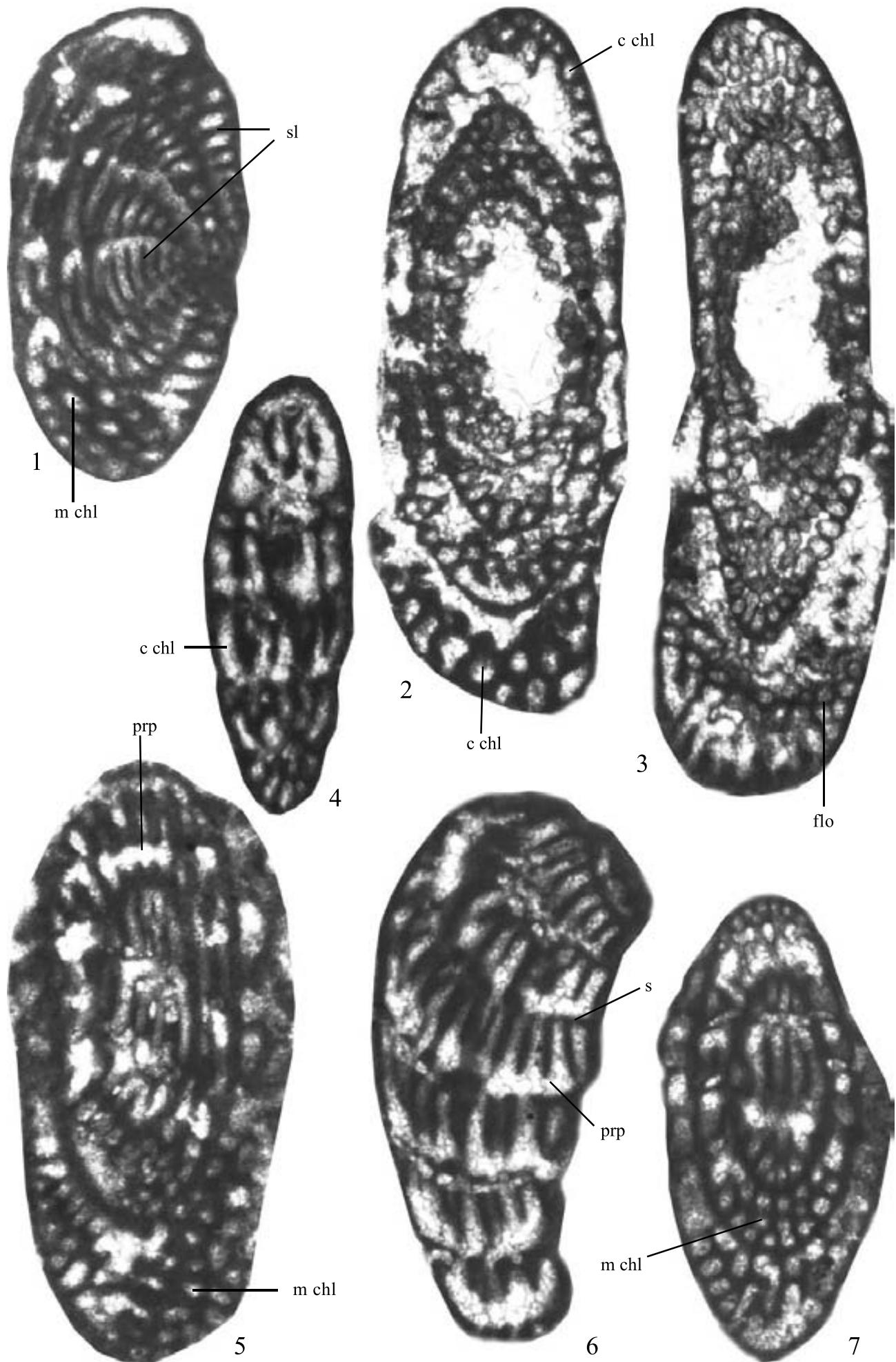


PLATE 16

Sellialveolina montielii n. sp.

1 to 5: megalospheric forms (x100)

6, 7: microspheric forms (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Cenomanian age, cut out from the including sediment of similar opaqueness. Sample 95-74 from Puerto del Remolcador, Iberian range, (Spain). 1, 3, 5: axial sections. 2, 4: oblique-centered sections closte to equatorial plane. 6: sub-axial section. 7: oblique section close to equatorial plane.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **f:** *flexostyle/canal flexostílico*; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **s:** *septum/septo*; **sl:** *septula/tabique*

PLATE 16

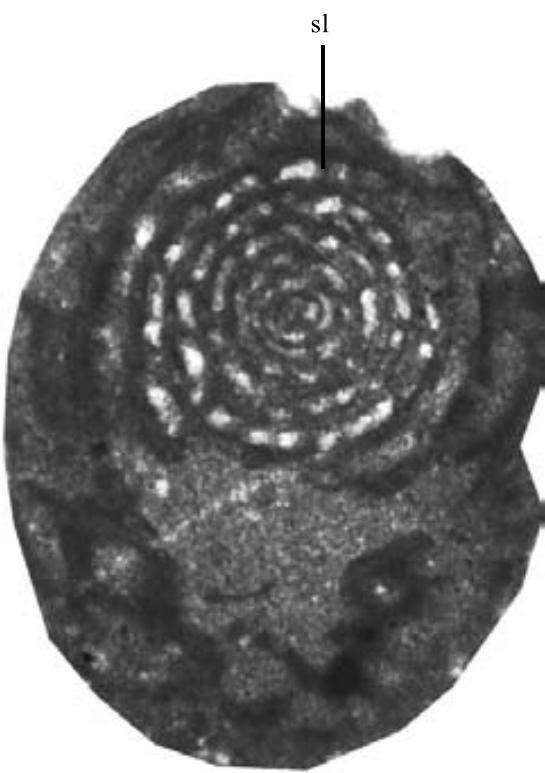
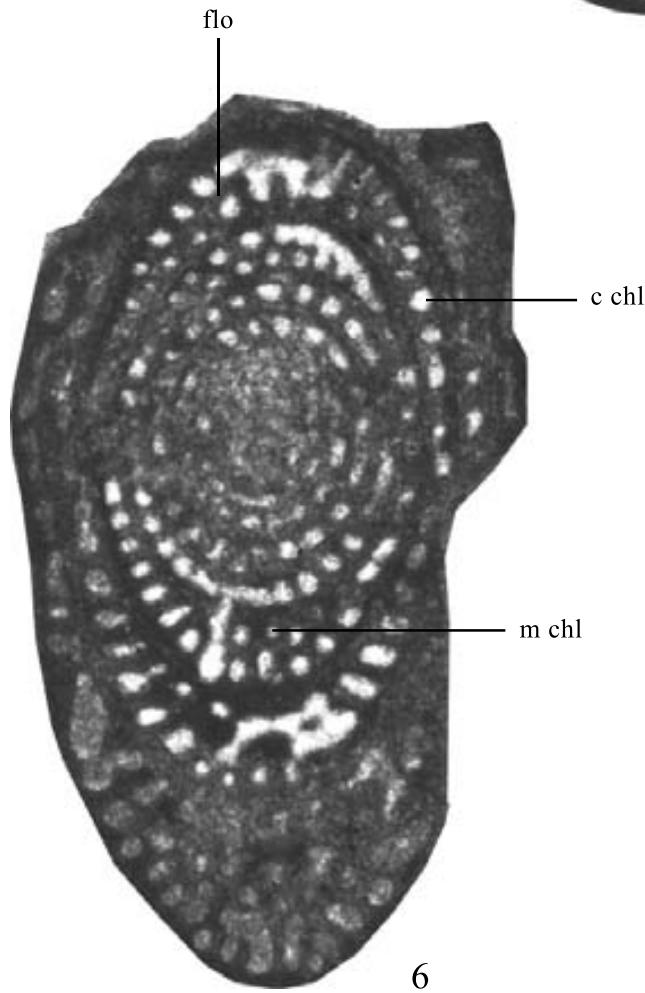
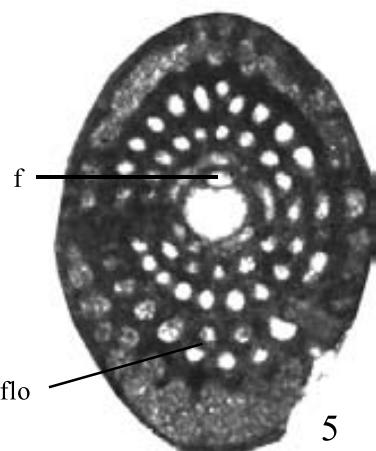
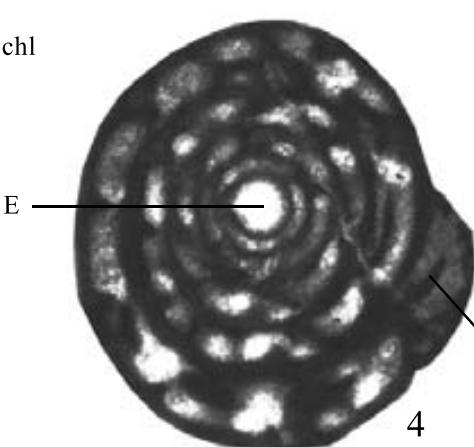
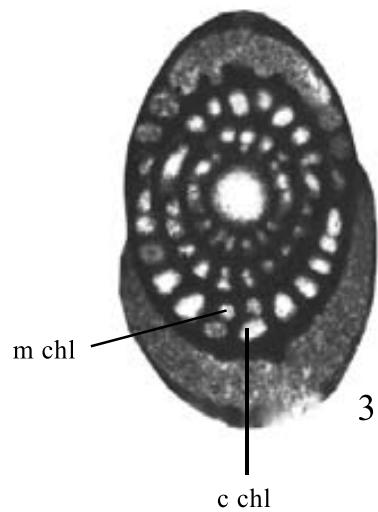
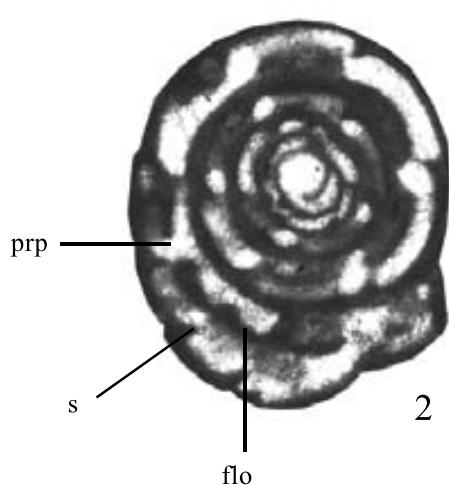


PLATE 17

Sellialveolina montieili n. sp.

1 to 6: megalospheric forms (x100)

7: microspheric form (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Cenomanian age, cut out from the including sediment of similar opaqueness. Sample 95-74 from Puerto del Remolcador, Iberian range, (Spain). 1, 2, 3: axial sections. 4: oblique-centered sections closte to axial plane. 5: oblique-centered section close to equatorial plane. 6: oblique section close to equatorial plane. 7: oblique section close to axial plane.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **flo:** floor/suelo; **m ap:** *medullar aperture/abertura* medular; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **sh:** *shaft*; **sl:** *septula/tabique*

PLATE 17

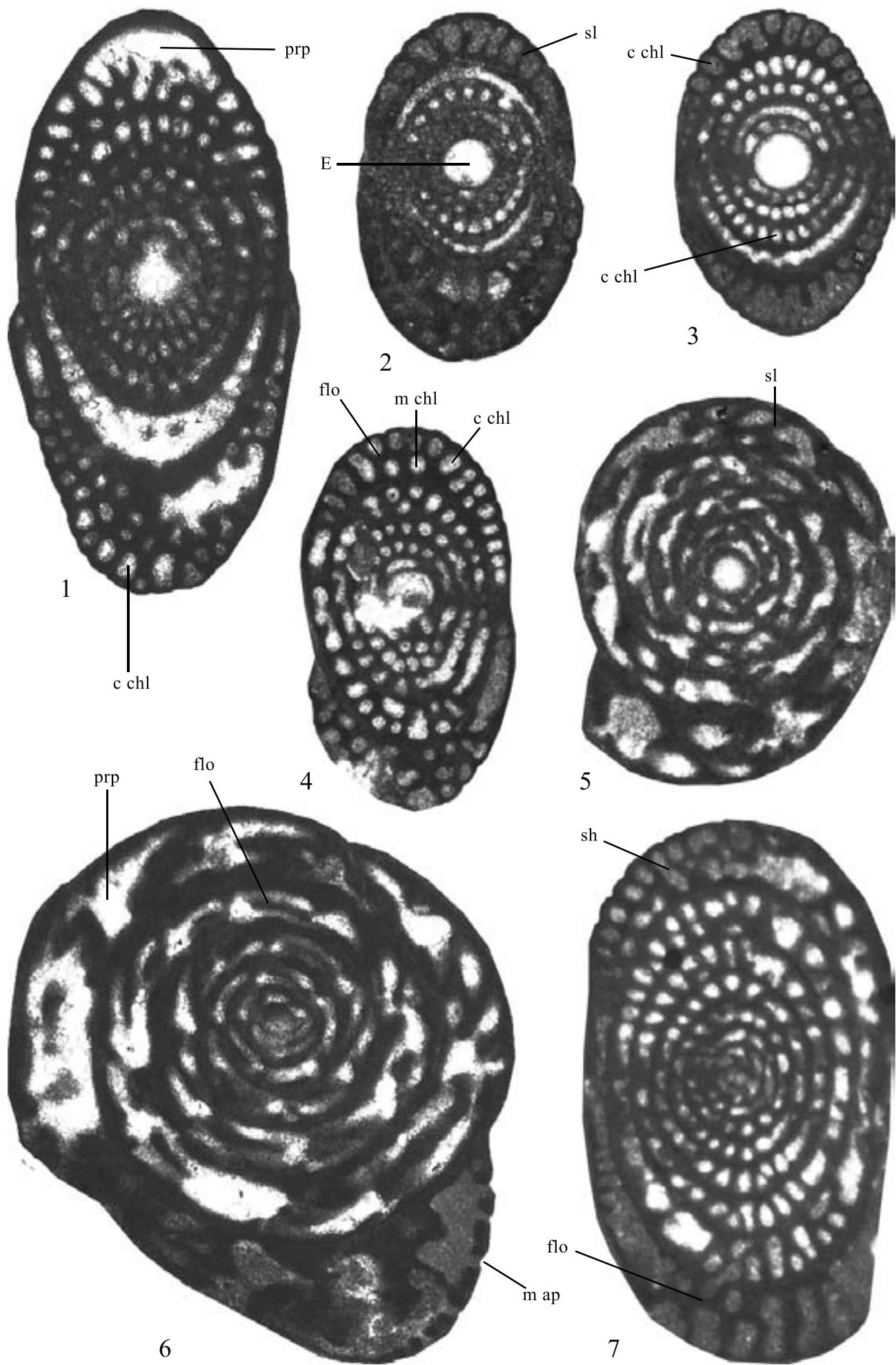


PLATE 18

Sellialveolina montielii n.sp.

1 to 6: megalospheric forms (x100)

7: microspheric form (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Cenomanian age, cut out from the including sediment of similar opaqueness. Sample *M-02* from Montiel, Iberian range, (Spain). 1, 2, 3: oblique-centered sections close to axial plane. 4, 5, 7, 9, 10: tangential sections. 6: oblique section. 6: oblique section close to equatorial plane. 7: oblique section close to axial plane. 8: tranverse section parallel to equatorial plane.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **f:** *flexostyle/canal flexostílico*; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla medular*; **prp:** *preseptal passage/espacio preseptal*; **sl:** *septula/tabique*

PLATE 18

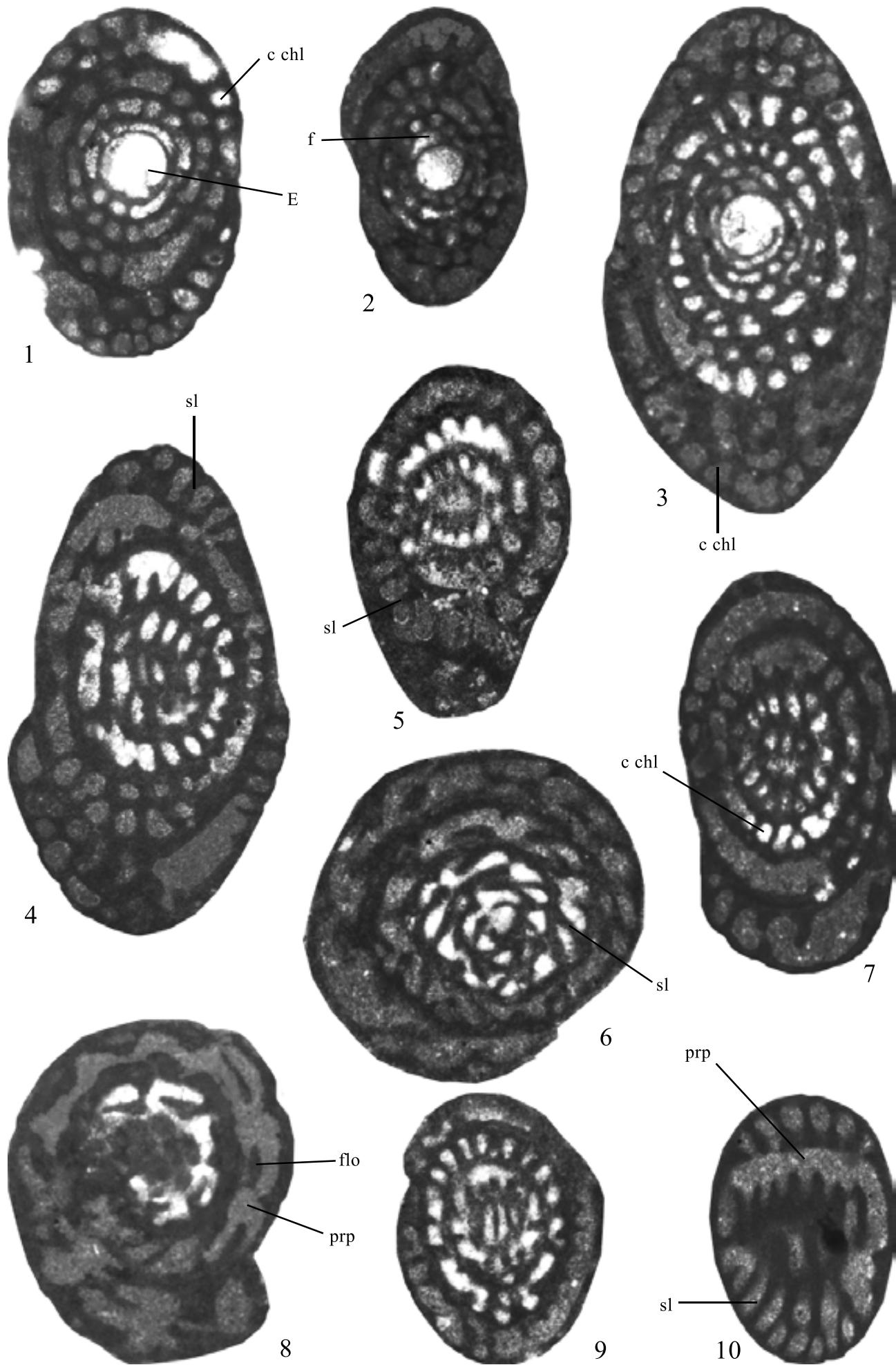


PLATE 19

Sellialveolina gutzwilieri n. sp.

megalospheric forms (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Cenomanian age, cut out from the including sediment of similar opaqueness. Sample VVTE-1 from Ejulve, Iberian range, (Spain). 1, 2: oblique-centered sections close to axial plane. 3: axial section. 4, 5: equatorial sections.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **f:** *flexostyle/canal* flexostílico; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **s:** *septum/septo*

PLATE 19

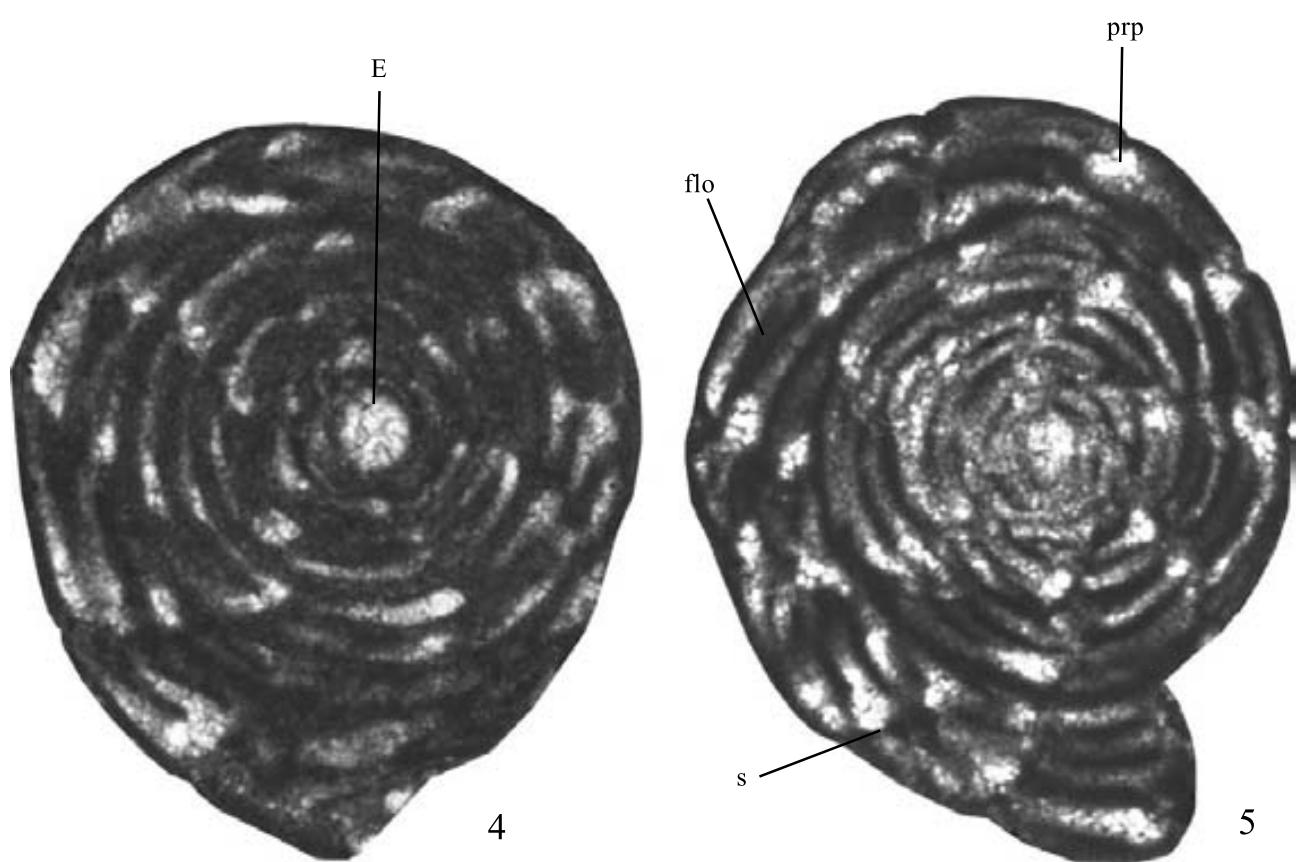
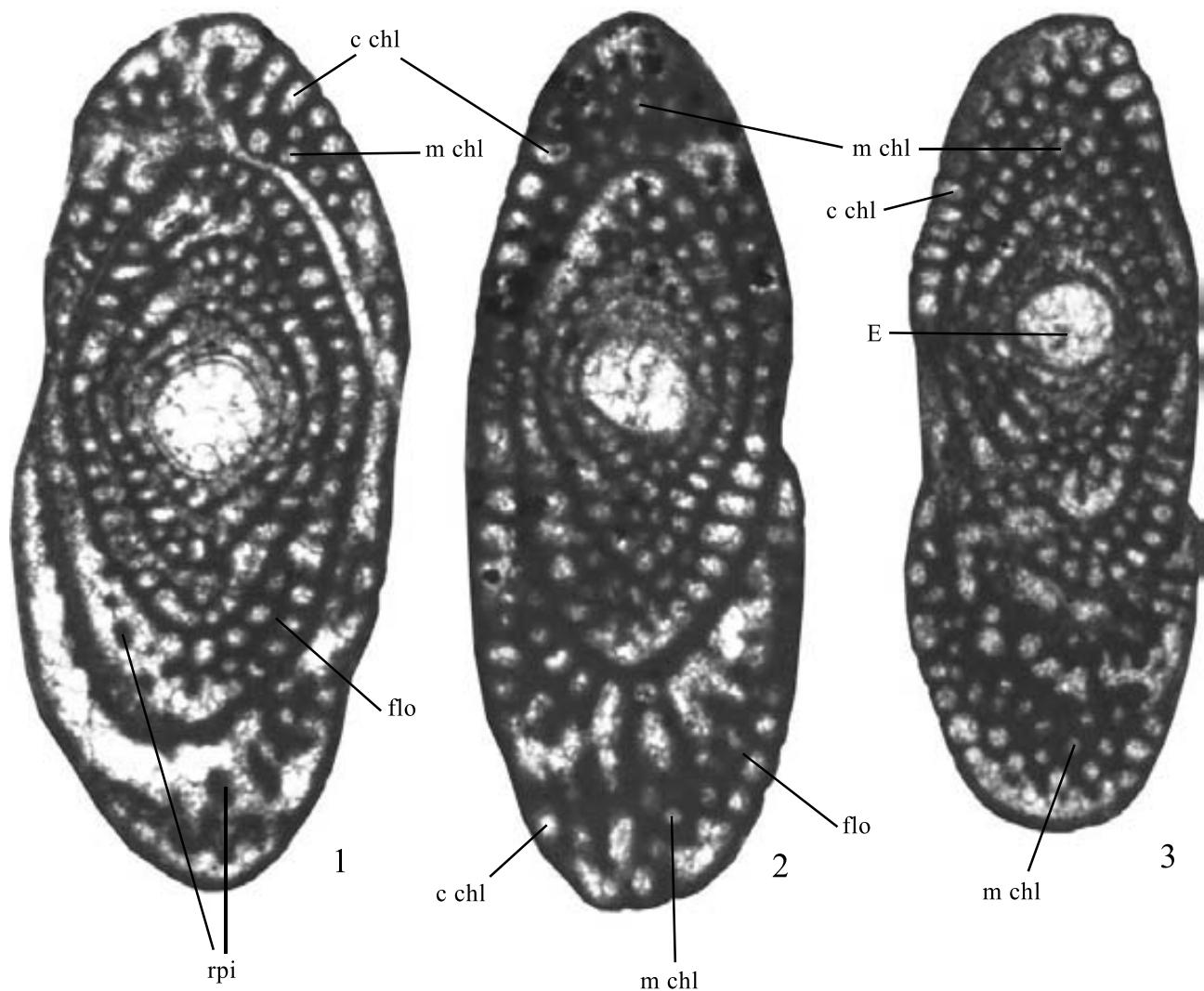


PLATE 20

Sellialveolina gutzwilleri n. sp.

magalospheric forms (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Cenomanian age, cut out from the including sediment of similar opaqueness. Sample VVTE-1 from Ejulve, Iberian range, (Spain). 1:axial section. 2, 4, 6: oblique-centered sections close to axial plane. 3: transverse section. 5: oblique-centered section close to equatorial plane.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **s:** *septum/septo*; **sl:** *septula/tabique*

PLATE 20

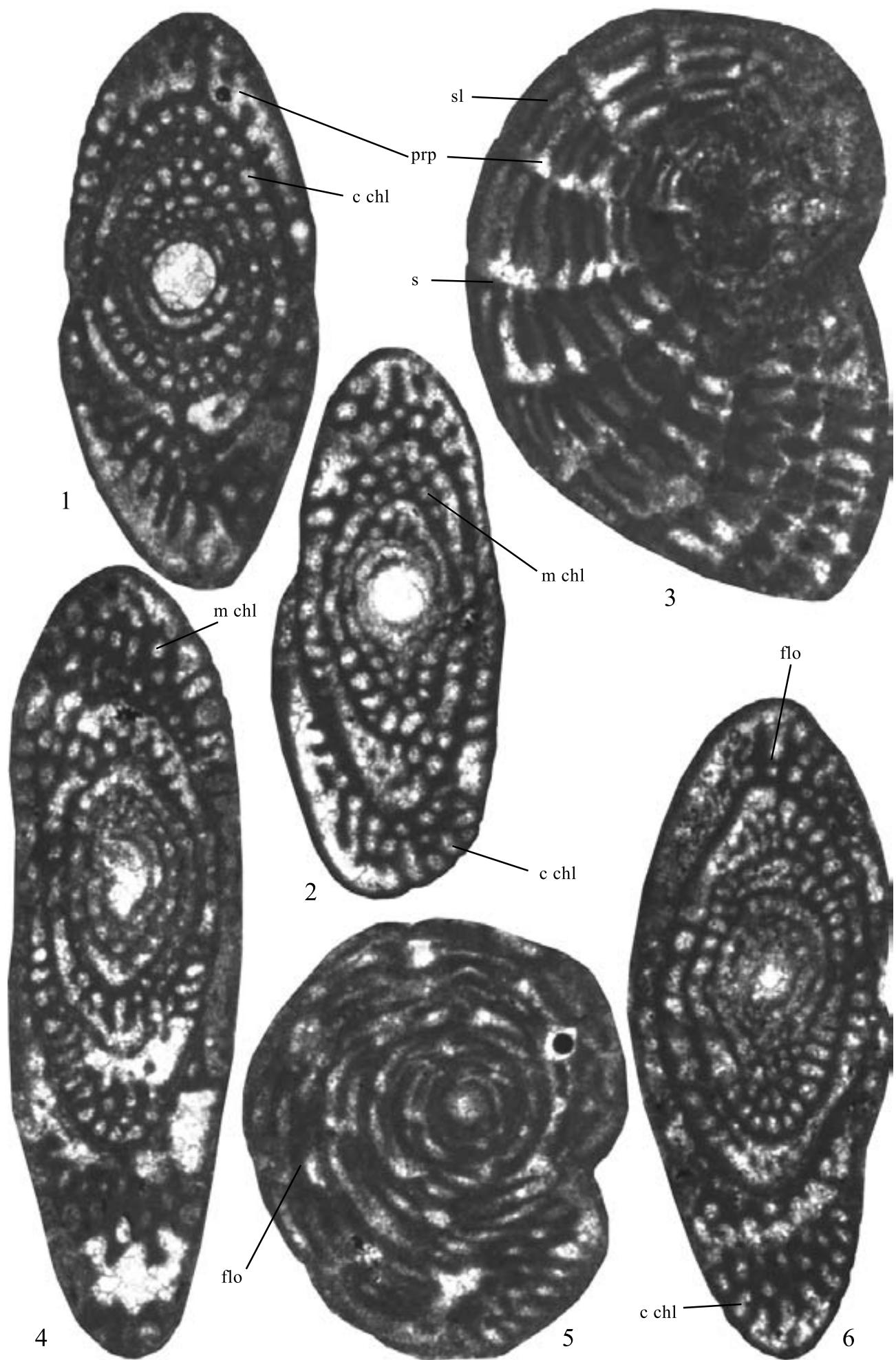


PLATE 21

Sellialveolina gutzwilleri n. sp.
megalospheric? forms (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Cenomanian age, cut out from the including sediment of similar opaqueness. Sample VVTE-1 from Ejulve, Iberian range, (Spain). 1-6: tangential sections.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **sl:** *septula/tabique*

PLATE 21

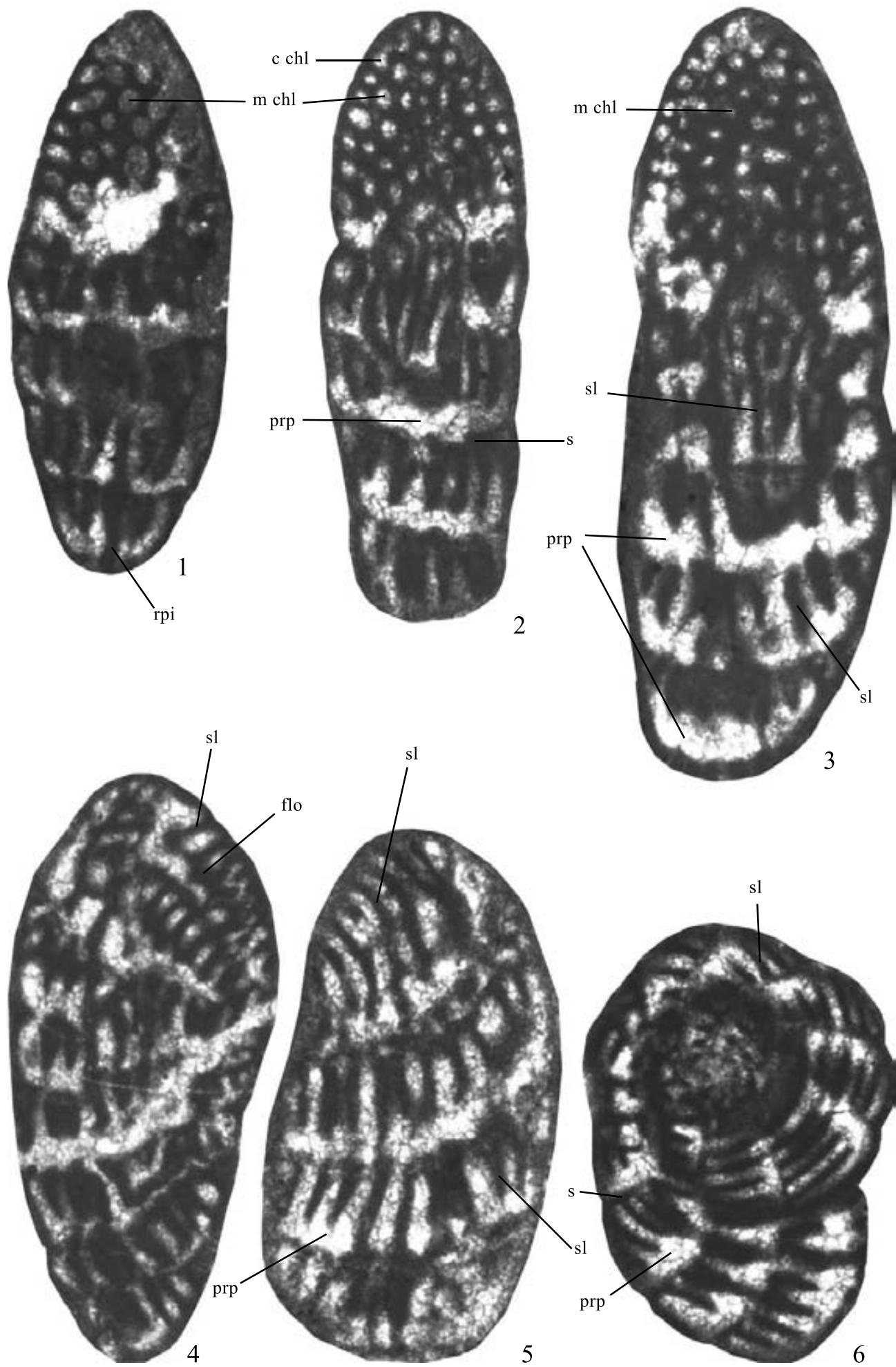


PLATE 22

Sellialveolina gutzwilleri n. sp.

1, 3, 5, 6: megalospheric forms (x100)

2, 4: microspheric forms (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Cenomanian age, cut out from the including sediment of similar opaqueness. Sample VVTE-2 from Morrón de Pinarueco, Iberian range, (Spain). 1, 2, 6: axial sections. 3-5: oblique-centered sections close to axial plane.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **f:** *flexostyle/canal flexostílico*; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla medular*; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **sl:** *septula/tabique*

PLATE 22

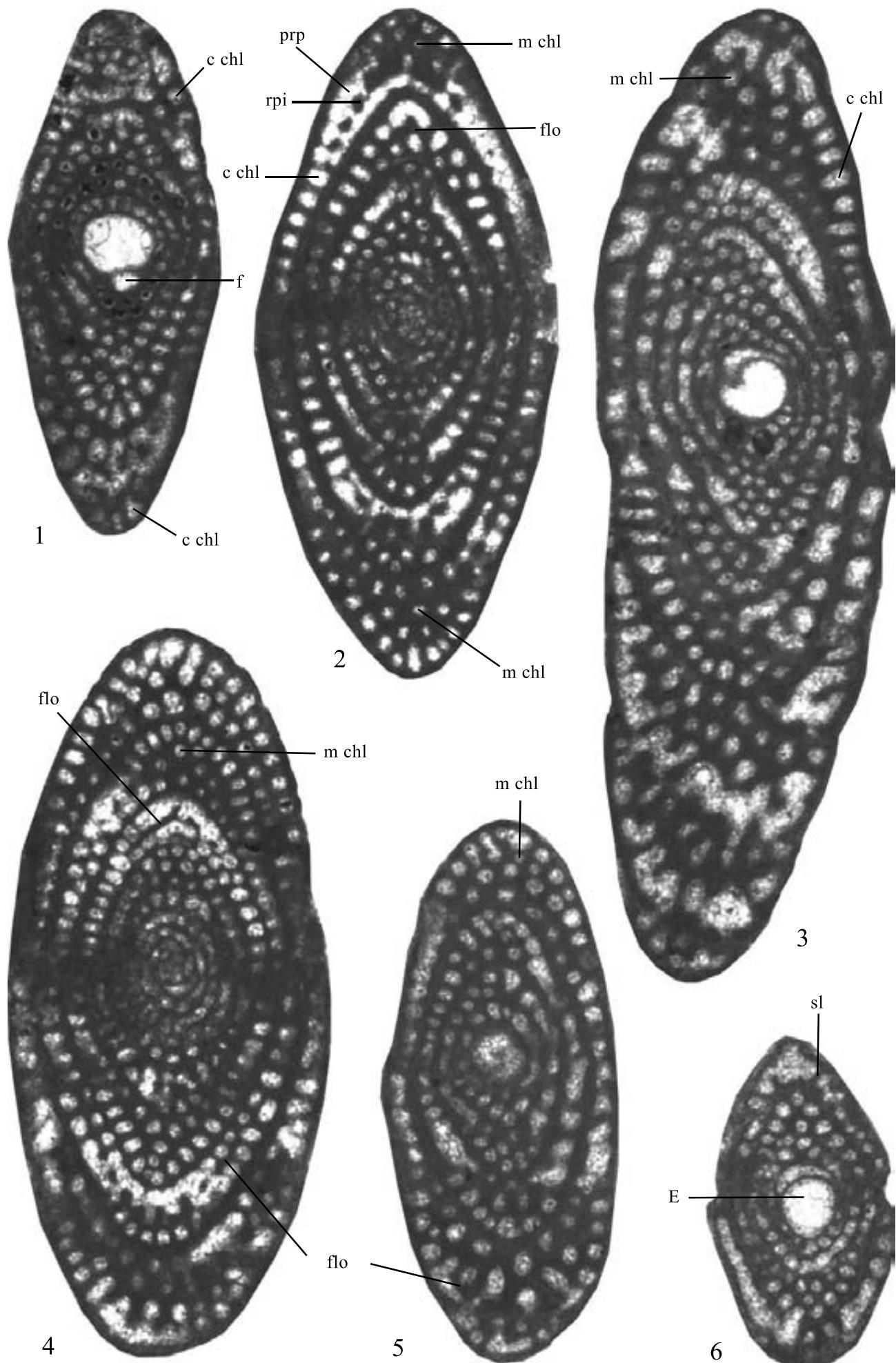


PLATE 23

Sellialveolina gutzwilieri n. sp.

megalospheric forms

Transmitted light micrographs of thinsections of cemented carbonates of Cenomanian age, cut out from the including sediment of similar opaqueness. Sample VVTE-2 from Morrón de Pinarueco, Iberian range, (Spain). 1-4, 6: oblique sections (x100). 5: oblique section (x50)

ABBREVIATIONS: **c** **chl**: cortical *chamberlet/camarilla* cortical; **flo**: *floor/suelo*; **prp**: *preseptal passage/espacio preseptal*; **rpi**: *residual pillar/pilar residual*; **s**: *septum/septo*; **sh**: *shaft*; **sl**: *septula/tabique*

PLATE 23

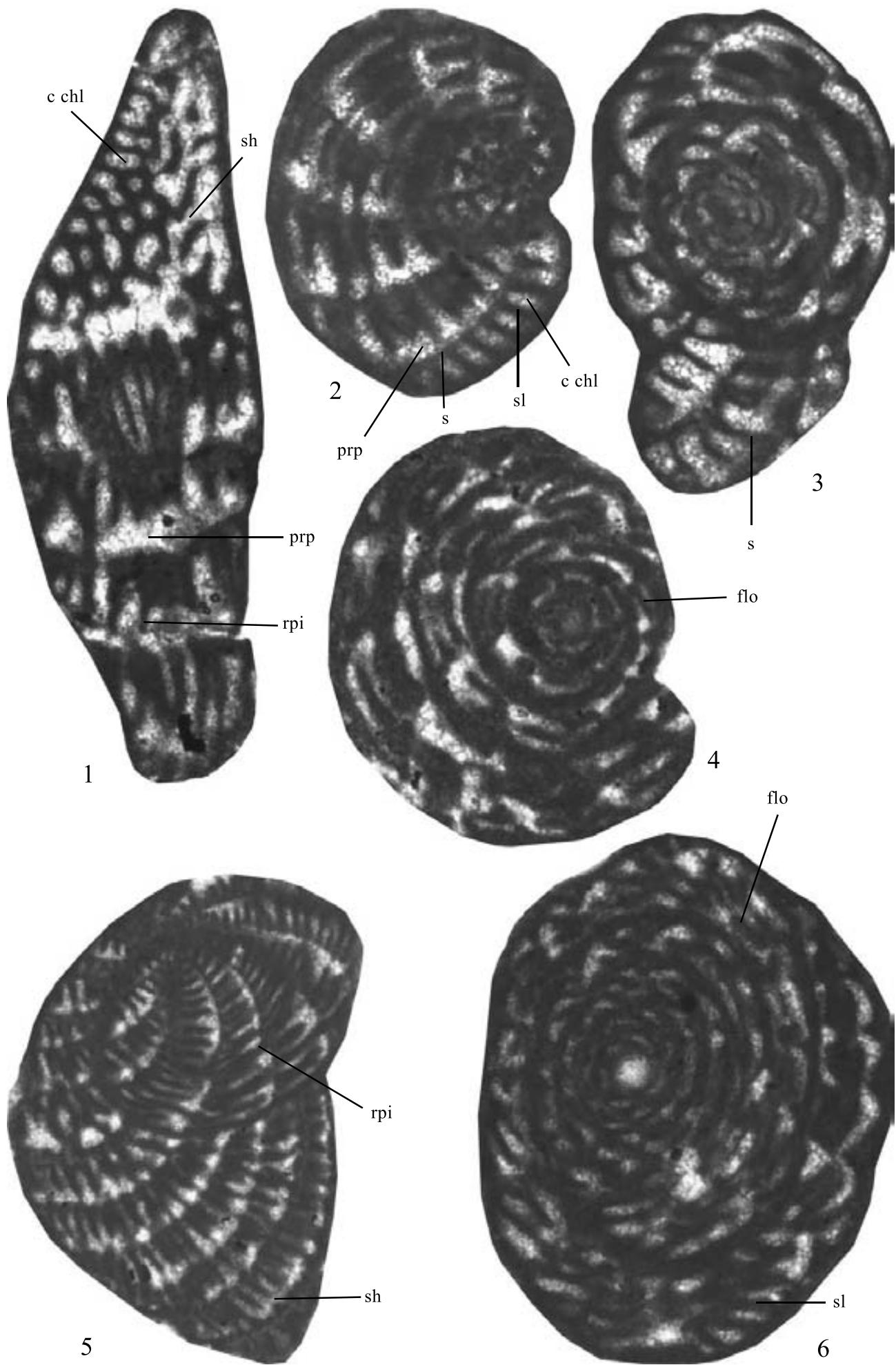


PLATE 24

Sellialveolina gutzwilieri n. sp.

megalospheric forms

Transmitted light micrographs of thinsections of cemented carbonates of Cenomanian age, cut out from the including sediment of similar opaqueness. Sample 86050407 from Puerto de Villaroya, Iberian range, (Spain). 1, 2, 5: oblique sections close to axial plane. 3, 4: axial sections.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **f:** *flexostyle/canal flexostílico*; **m chl:** *medullar chamberlet/camarilla medular*

PLATE 24

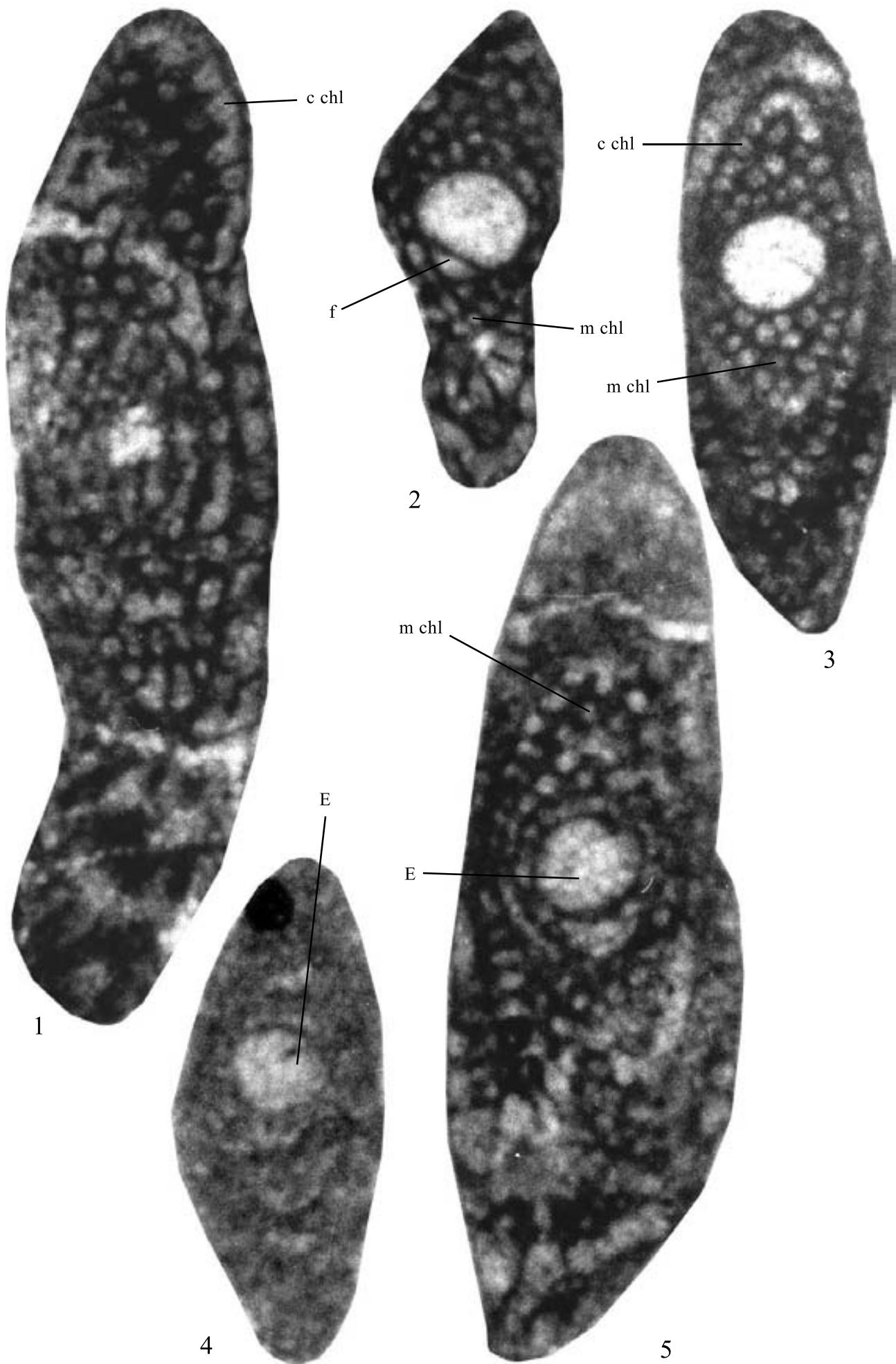


PLATE 25

Murciella cuvillieri Fourcade 1966

1-7, 9-11: megalospheric forms (x100)

8: microspheric form (x100)

Topotypes. Transmitted light micrographs of thinsections of cemented carbonates, cut out from the including sediment of similar opaqueness. Sample *Be-92* from Sierra de los Agüeros, Betic domain, (Spain). 1-3: oblique-centered sections close to axial plane. 4-9: axial sections. 10: oblique-centered section close to equatorial plane. 11: equatorial section.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **f:** *flexostyle/canal flexostílico*; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla medular*; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **s:** *septum/septo*; **sl:** *septula/tabique*

PLATE 25

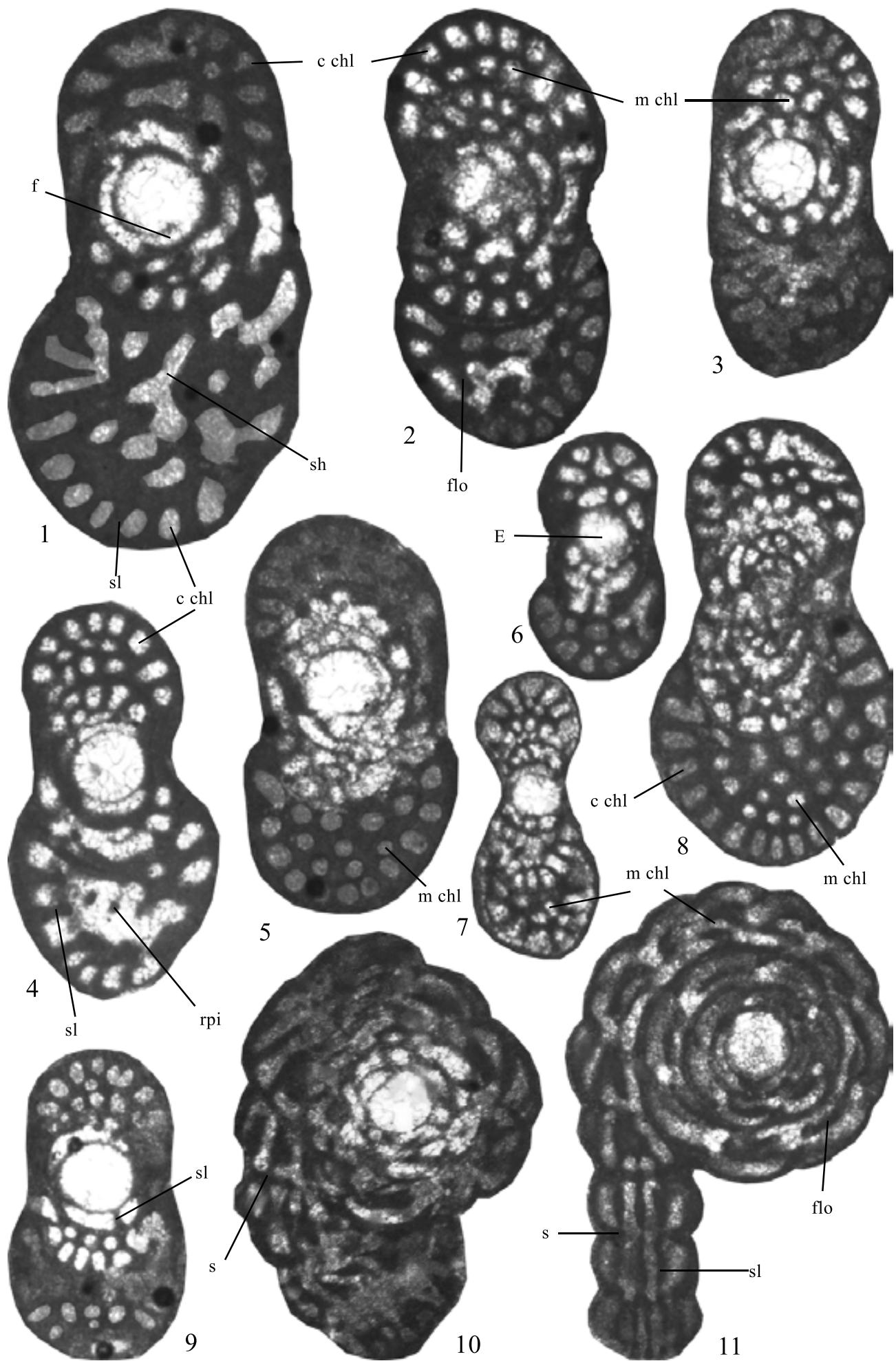


PLATE 26

Murciella cuvillieri Fourcade 1966

megalospheric forms (x100)

Topotypes. Transmitted light micrographs of thinsections of cemented carbonates, cut out from the including sediment of similar opaqueness. Sample *Be-92* from Sierra de los Agüeros, Betic domain, (Spain). 1, 2, 5: axial sections. 3: tangential section. 4, 7: oblique sections of uncoiled growth. 6: oblique-centered section. 8, 9: transverse section of uncoiled growth.

ABBREVIATIONS: **m** ap:medullar *aperture/abertura* medular; **c** chl: cortical *chamberlet/camarilla* cortical; **E**: embryo/embrión; **flo**: floor/suelo; **m chl**: medullar *chamberlet/camarilla* medular; **prp**: preseptal passage/espacio preseptal; **rpi**: residual pillar/pilar residual; **s**: septum/septo; **sh**: shaft; **sl**: septula/tabique

PLATE 26

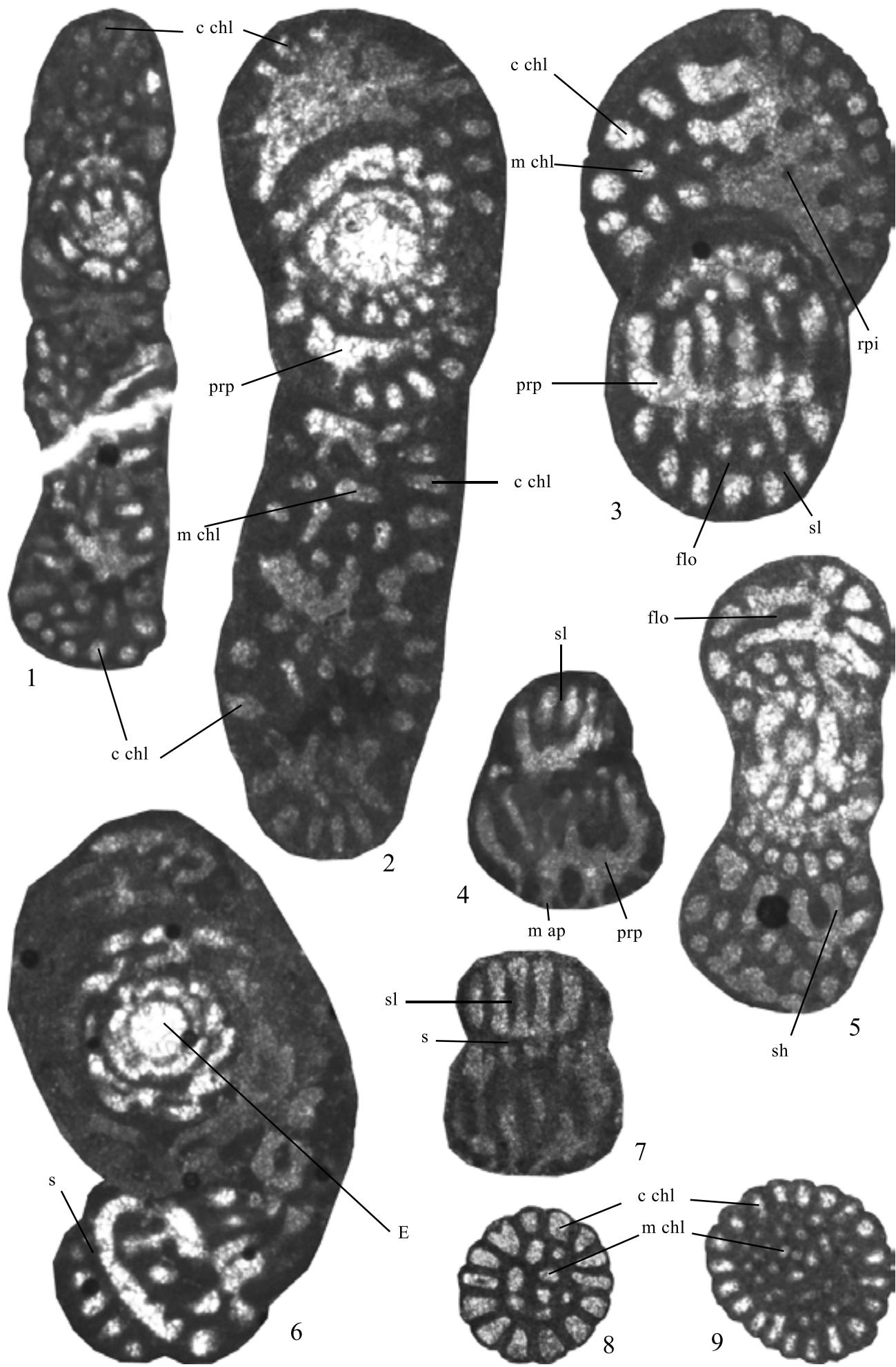


PLATE 27

Murciella cuvillieri Fourcade 1966

1-2, 4-8: megalospheric forms (x100)

3: microspheric form (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age, cut out from the including sediment of similar opaqueness. Sample GAV-3 from Sierra Gavilanes, Betic domain, (Spain). 1-3, 6: axial sections. 4-5: equatorial sections. 7: oblique-centered section close to axial plane. 8: tangential section.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **f:** *flexostyle/canal flexostílico*; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla medular*; **prp:** *preseptal passage/espacio preseptal*; **s:** *septum/septo*

PLATE 27

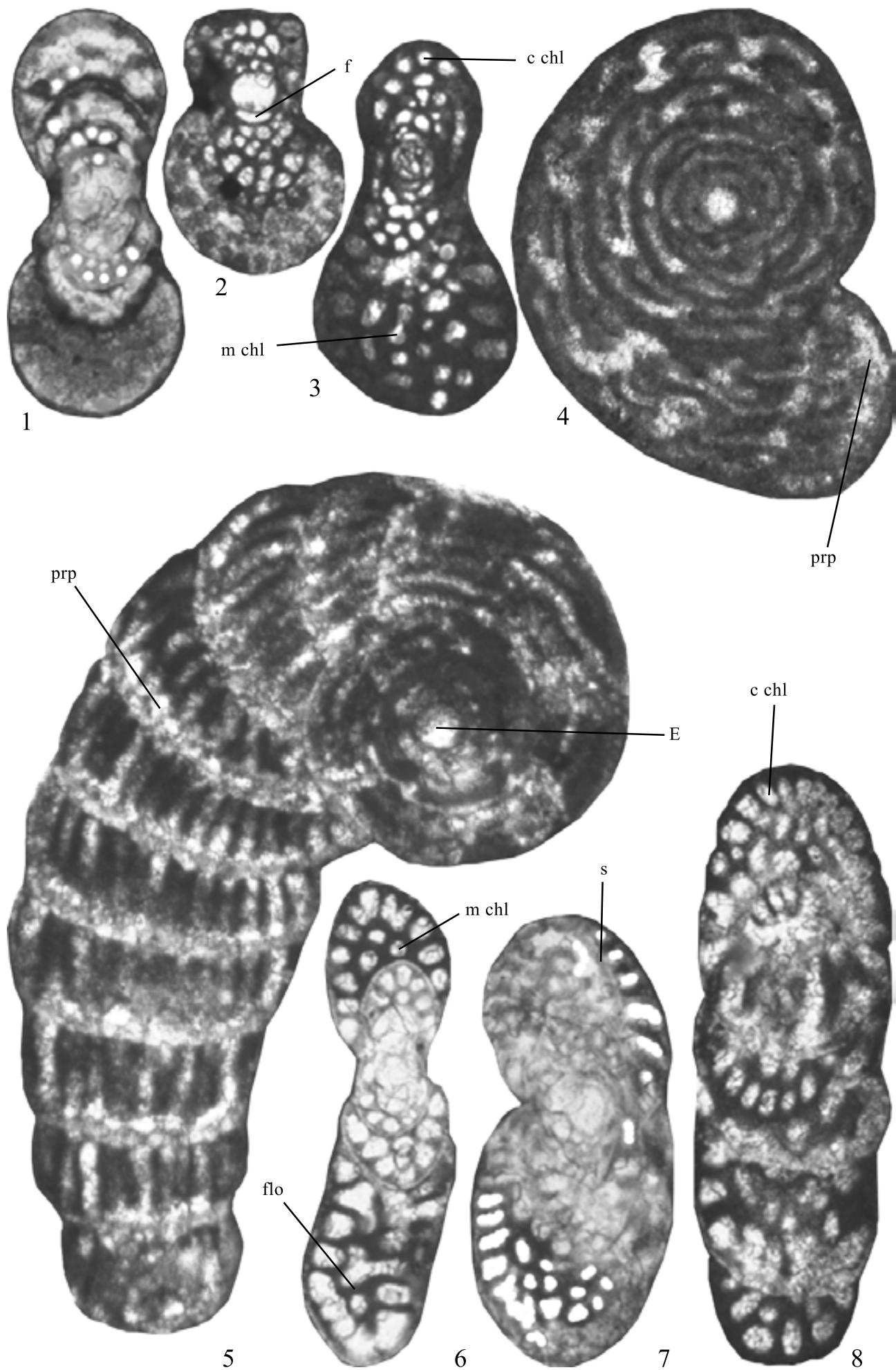


PLATE 28

Murciella cuvillieri Fourcade 1966

2-7: megalospheric? forms (x100)

1: microspheric form (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age, cut out from the including sediment of similar opaqueness. Sample GAV-3 from Sierra Gavilanes, Betic domain, (Spain). 1, 2, 4, 5: oblique sections. 3: tangential section. 6, 7: longitudinal section of uncoiled growth.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **s:** *septum/septo*; **sl:** *septula/tabique*

PLATE 28

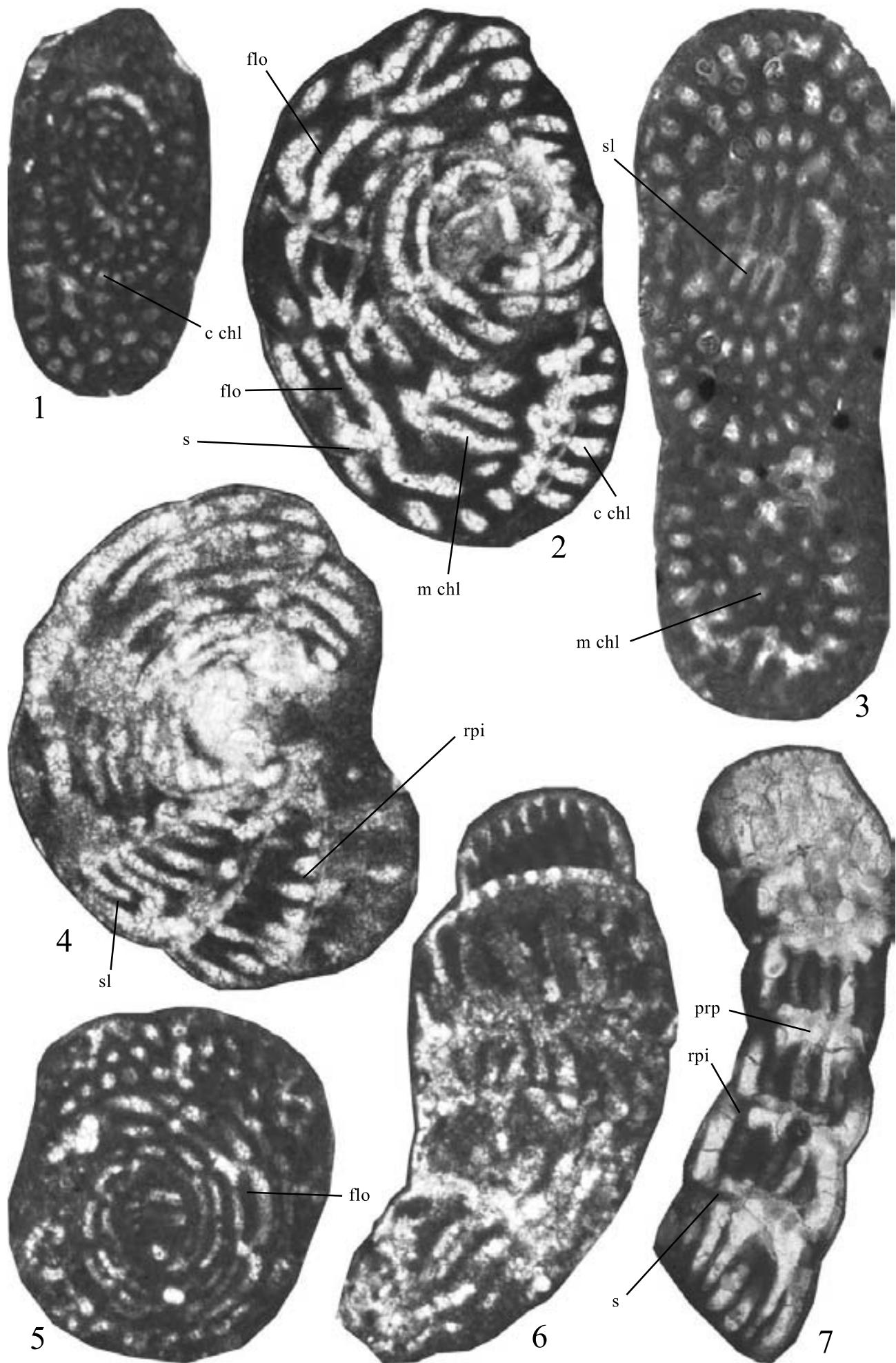


PLATE 29

Murciella n. sp. 1

megalospheric forms

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age. Sample *HE* from Hellín, Betic domain, (Spain). Observe the umbilical depression in picture 1, and the final uncoiled growth in pictures 5 and 6. 1: axial section (x100). 2: oblique-centered section very close to axial plane (x100). 3: axial section (x50). 4: oblique-centered section very close to equatorial plane (x50). 5: equatorial section (x50). 6: oblique-centered section close to equatorial plane (x100).

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **f:** *flexostyle/canal flexostílico*; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla medular*; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **sh:** *shaft*; **sl:** *septula/tabique*

PLATE 29

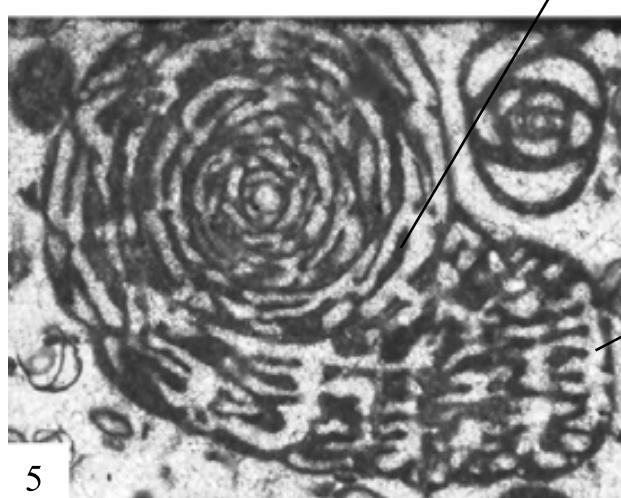
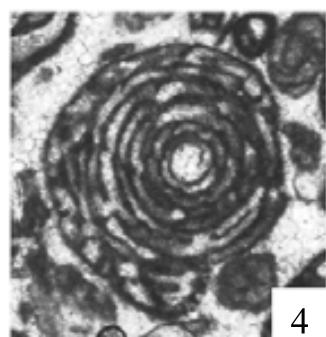
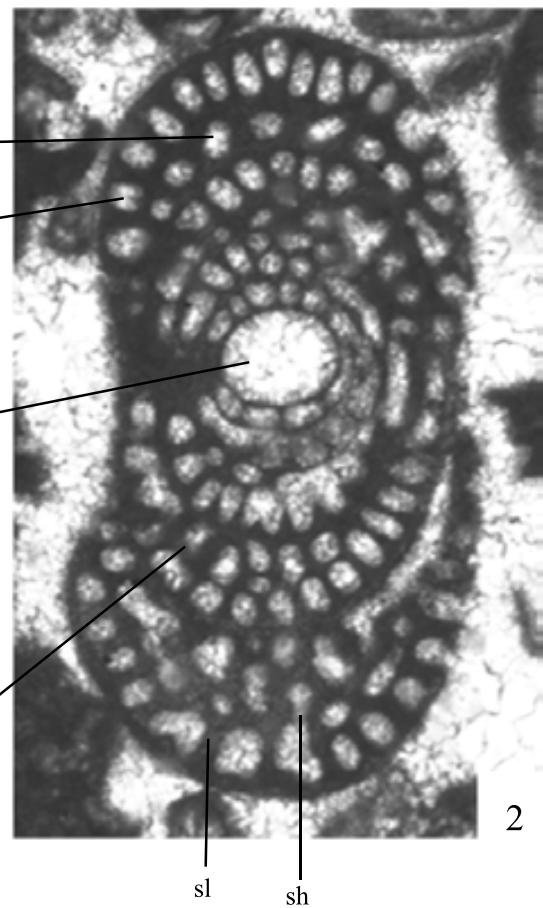
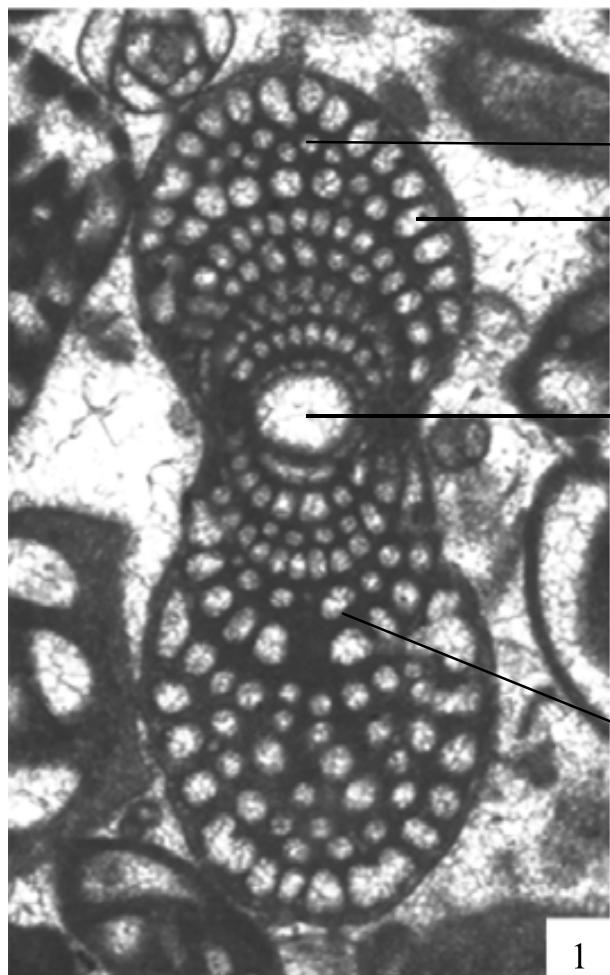


PLATE 30

Murciella n. sp. 1

megalospheric forms

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age. Sample *HE* from Hellín, Betic domain, (Spain). Observe final uncoiled growth in picture 8. 1-3: axial section (x100). 4, 5, 7: oblique-centered section close to equatorial plane (x50). 6: oblique section close to equatorial plane (x50). 8: subequatorial section (x50).

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **f:** *flexostyle/canal* flexostílico; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **sl:** *septula/tabique*; **s:** *septum/septo*

PLATE 30

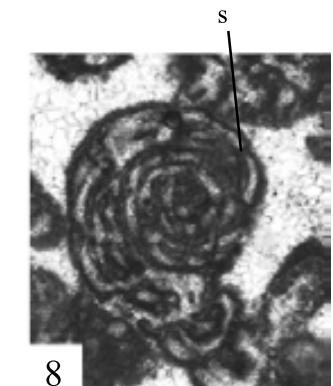
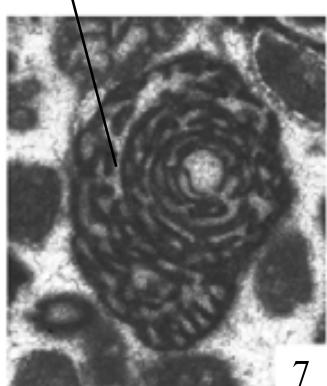
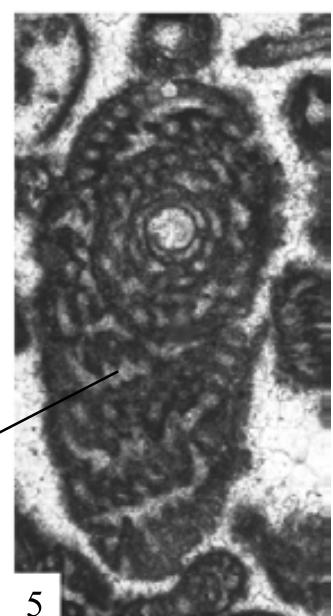
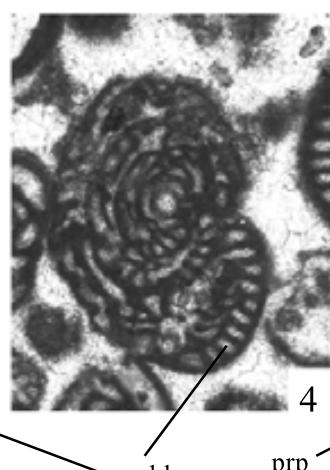
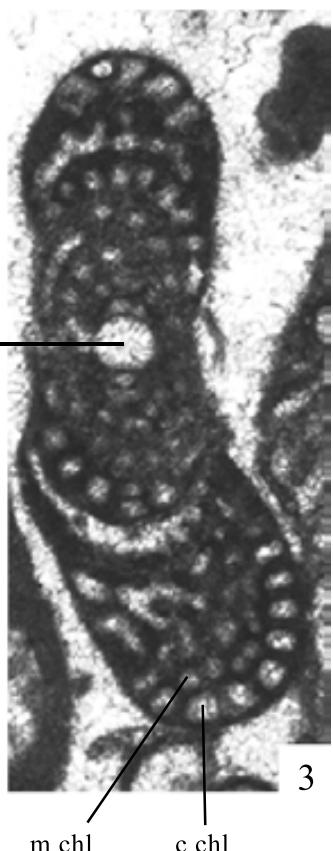
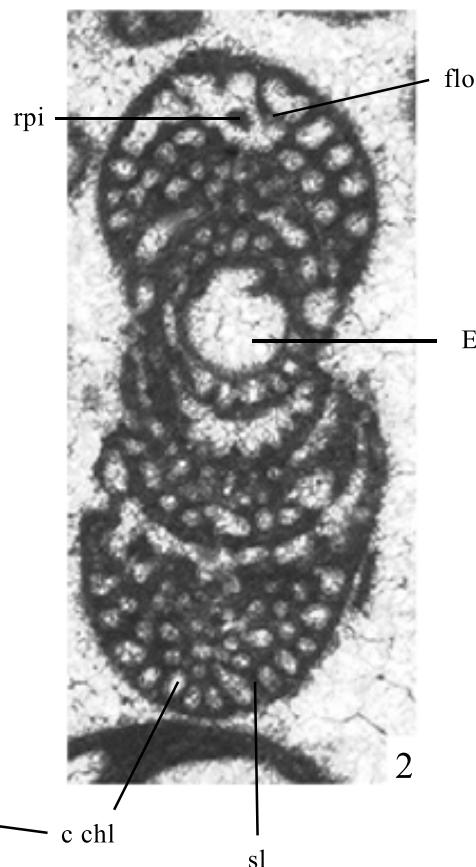
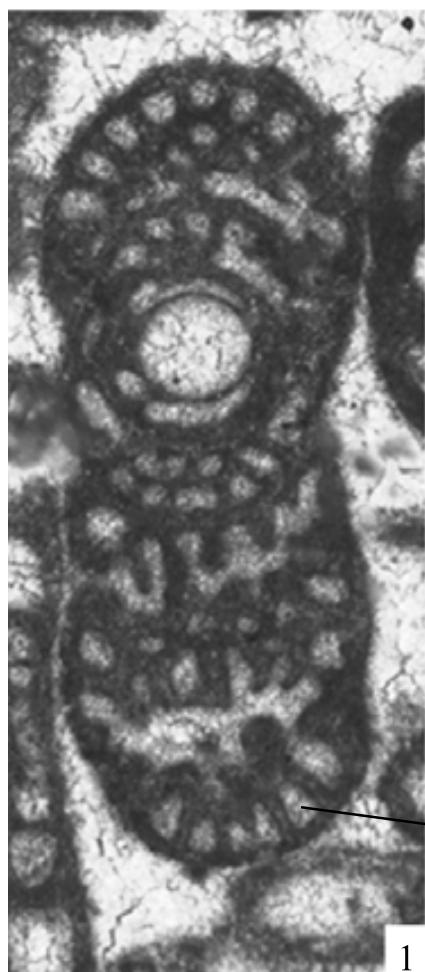


PLATE 31

Murciella n. sp. 1

megalospheric forms

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age. Sample *HE* from Hellín, Betic domain, (Spain). Observe the sections of uncoiled state. 1, 3, 5, 7: tangenital sections (x50). 2: longitudinal section of uncoiled part of the shell (x100). Observe the cross-wise structure 4, 8: longitudinal section of uncoiled part of the shell (x50). 6, 9-15: transverse sections of uncoiled part of the shell (x50).

ABBREVIATIONS: **ap:** *aperture/abertura*; **c chl:** cortical *chamberlet/camarilla* cortical; **flo:** *floor/suelo*; **m chl:** medullar *chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **sl:** *septula/tabique*

PLATE 31

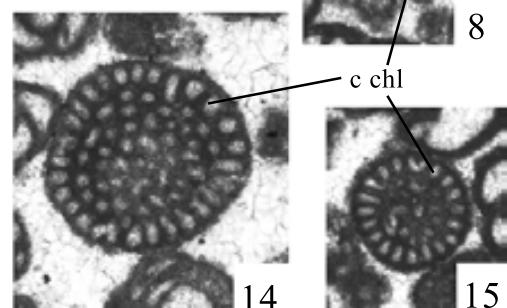
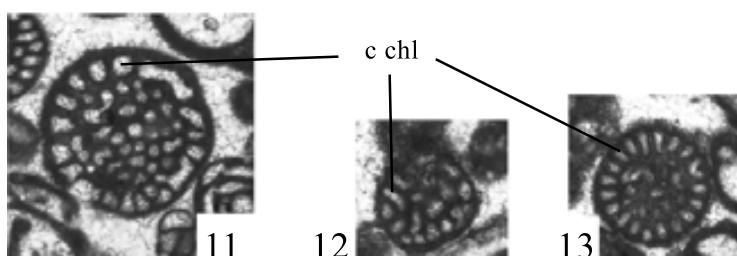
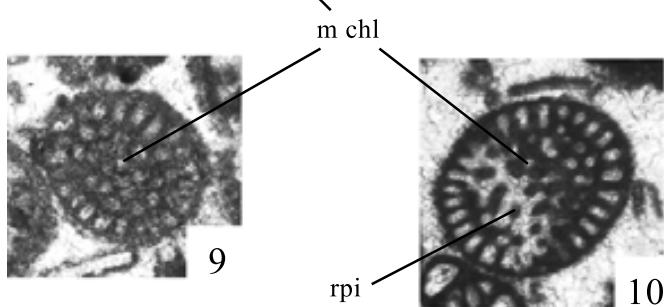
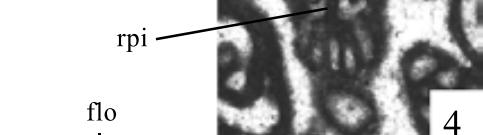
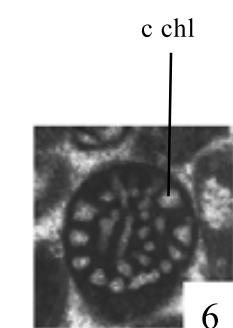
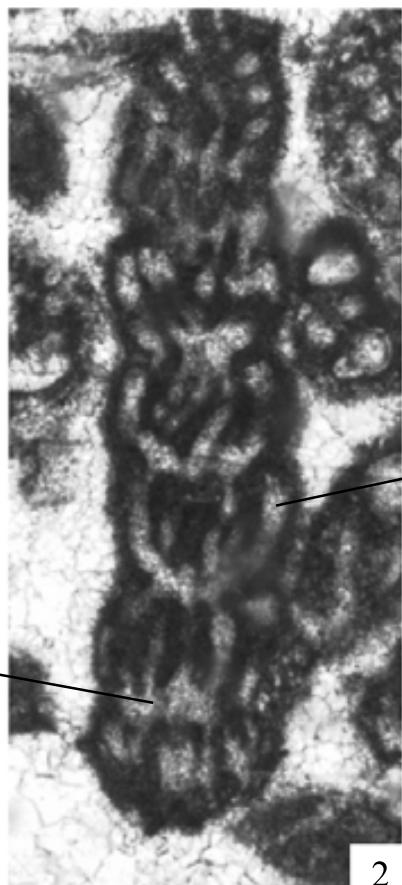
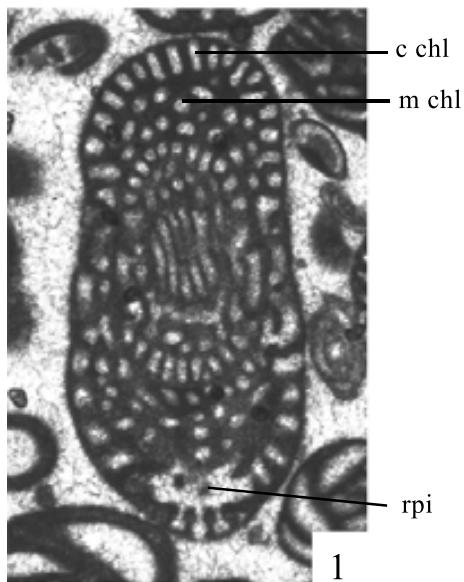


PLATE 32

Murciella? n. sp. 2

megalospheric? forms (x50)

Transmitted light micrographs of thinsections of cemented carbonates of Upper Maastrichtian age. Samples VVGR 40.x from Sierra Grossa, Betic domain, (Spain). 1-4: oblique sections close to axial plane. 5: axial section. 6, 7: equatorial sections. 8-10: longitudinal sections of uncoiled growth.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla* medular; **s:** *septum/septo*; **sl:** *septula/tabique*

PLATE 32

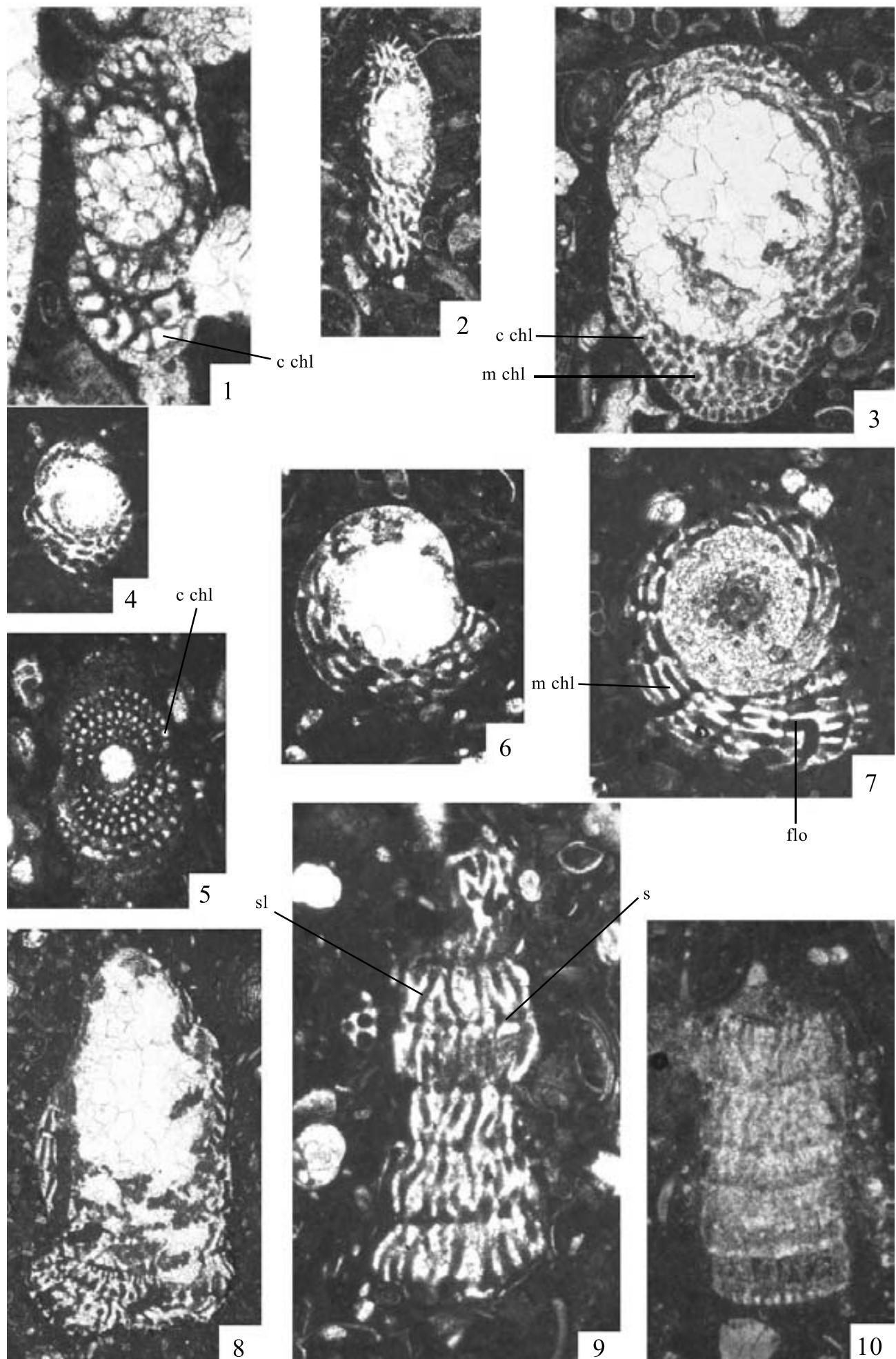


PLATE 33

Cyclopseudedomia smouti Fleury 1974

megalospheric forms (x50)

Topotypes. Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age. Sample *Py-12* from Pylos, Peloponese, (Greece). 1: equatorial section. 2-5, 10: oblique-centered sections. 6-9: axial sections.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **f:** *flexostyle/canal* flexostílico; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal;* **rpi:** *residual pillar/pilar residual;* **s:** *septum/septo*

PLATE 33

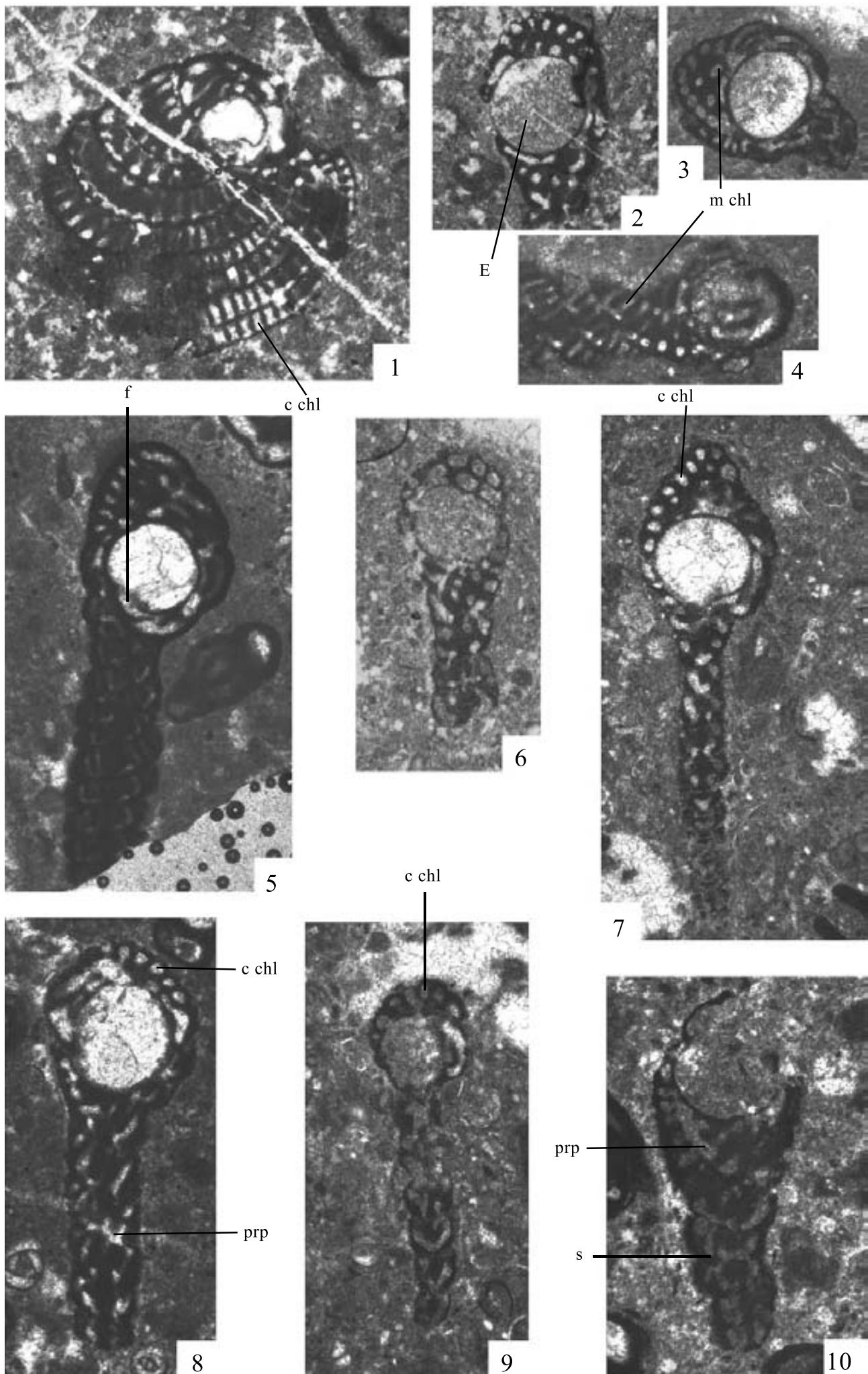


PLATE 34

Cyclopseudedomia smouti Fleury 1974

megalospheric forms (x50)

Topotypes. Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age. Sample Py-12 from Pylos, Peloponnese, (Greece). 1-6: oblique sections. 7-10: transverse sections.

ABBREVIATIONS: **bl:** basal layer/capa basal; **c chl:** cortical chamberlet/camarilla cortical; **m ap:** medullar aperture/abertura medular; **m chl:** medullar chamberlet/camarilla medular; **prp:** preseptal passage/espacio preseptal; **rpi:** residual pillar/pilar residual; **s:** septum/septo; **sl:** septula/tabique

PLATE 34

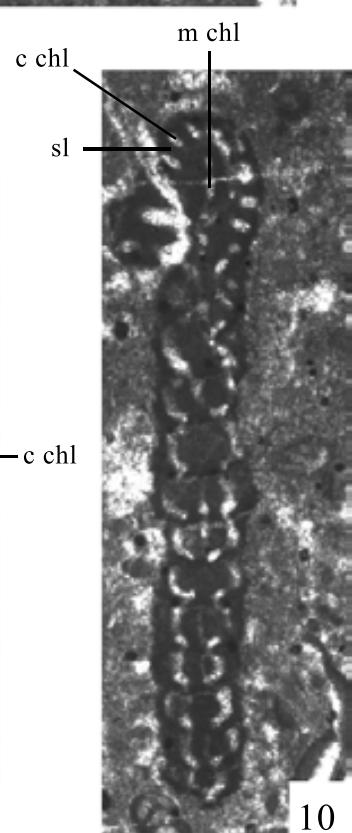
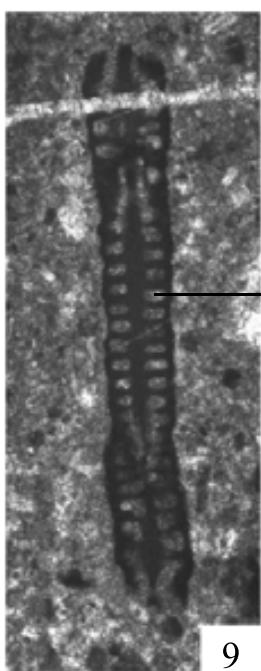
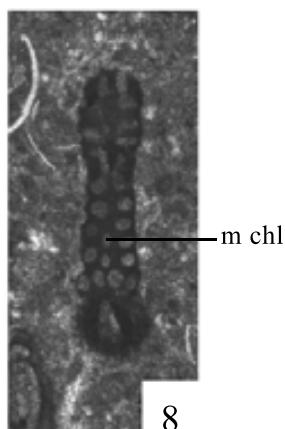
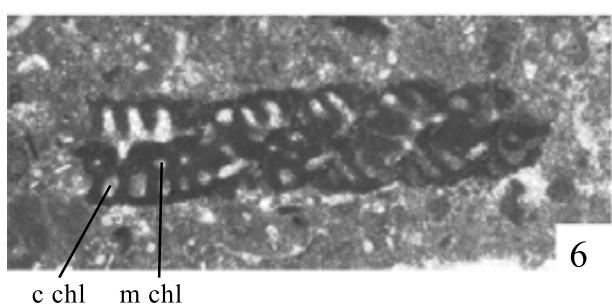
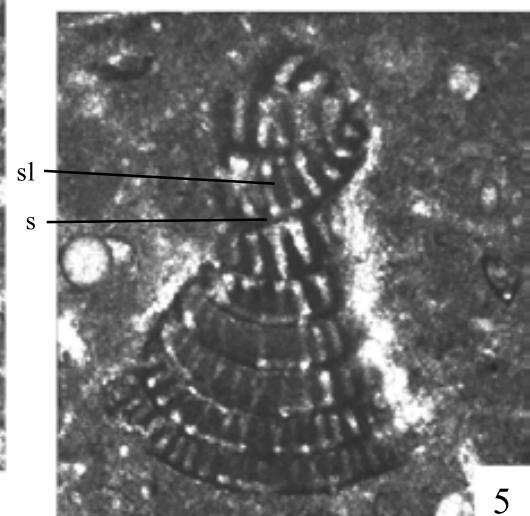
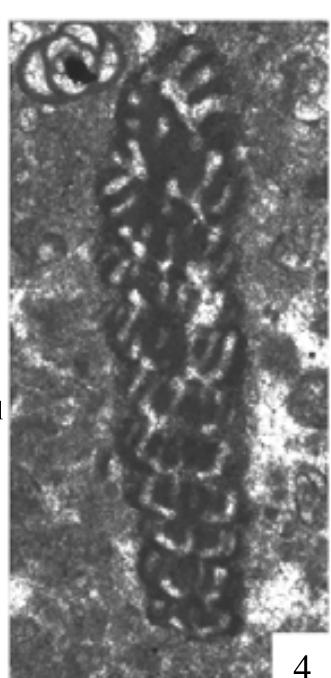
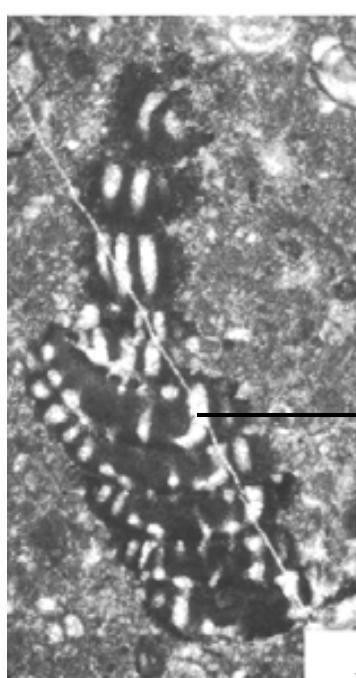
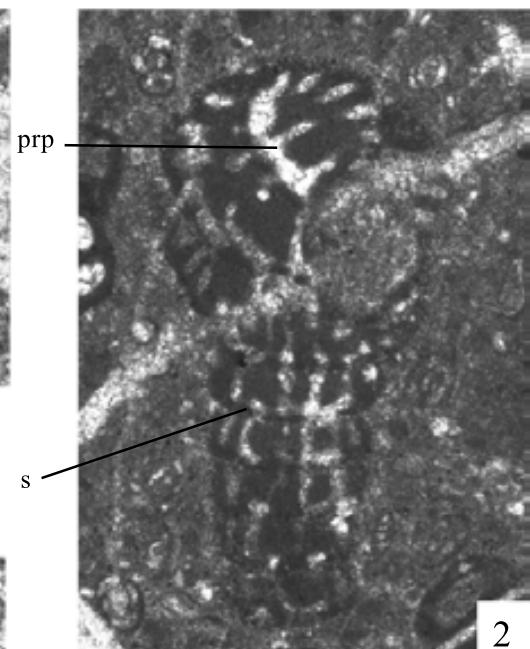
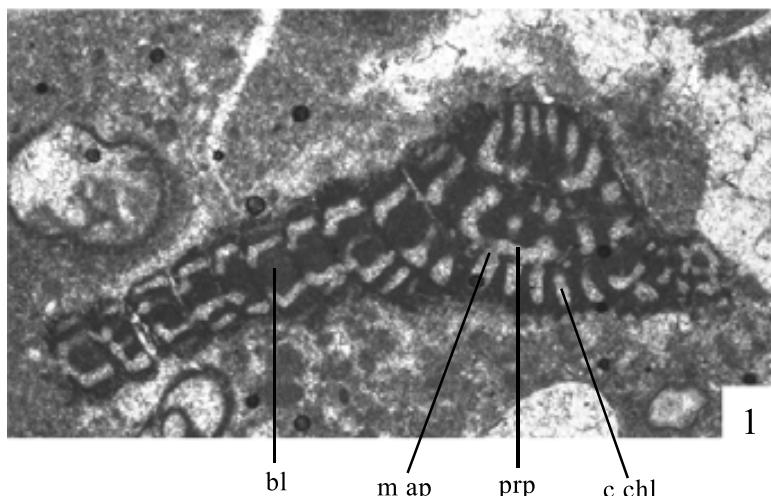


PLATE 35

Cyclopseudedomia smouti Fleury 1974

megalospheric? forms

Topotypes. Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age. Sample *Py-12* from Pylos, Peloponnese, (Greece). 1: transverse section (x25). 2: oblique section (x25). 3, 4: oblique sections (x50). 5, 6: transverse sections (x50).

ABBREVIATIONS: **bl:** basal layer/capa basal; **c chl:** cortical chamberlet/camarilla cortical; **m chl:** medullar chamberlet/camarilla medular; **prp:** preseptal passage/espacio preseptal; **sl:** septula/tabique

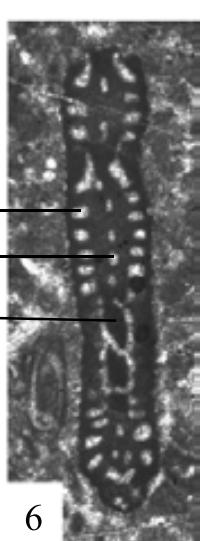
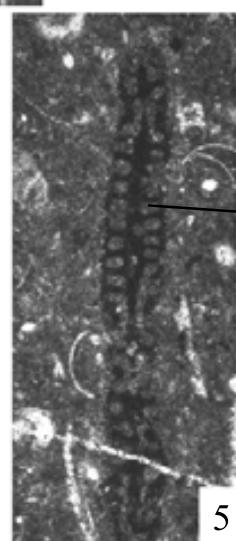
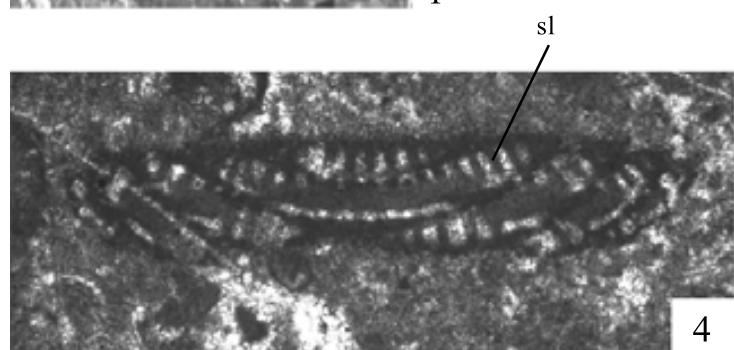
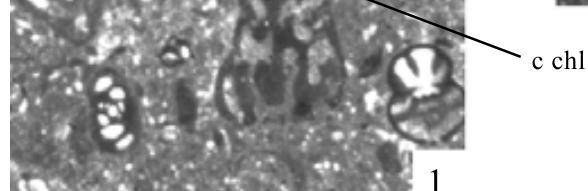
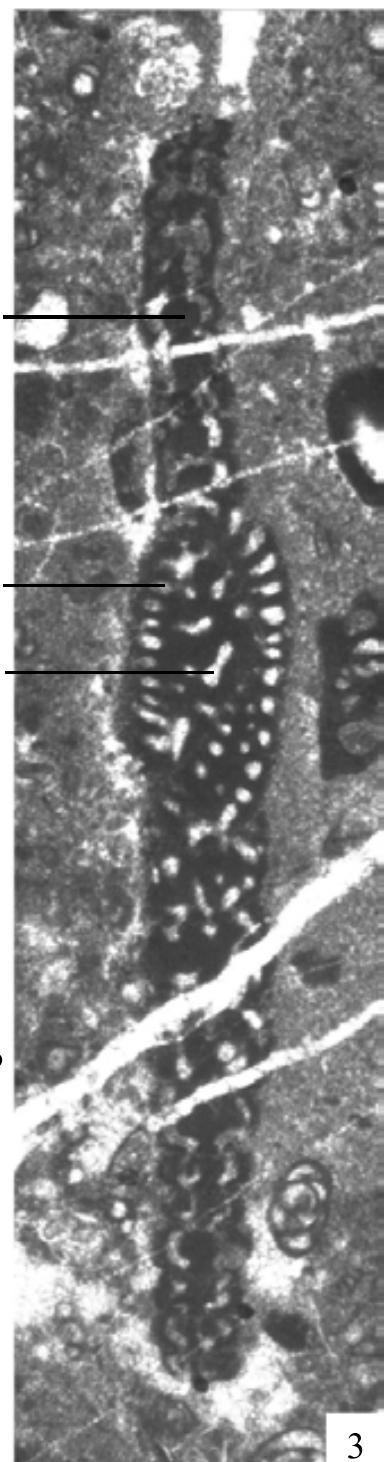
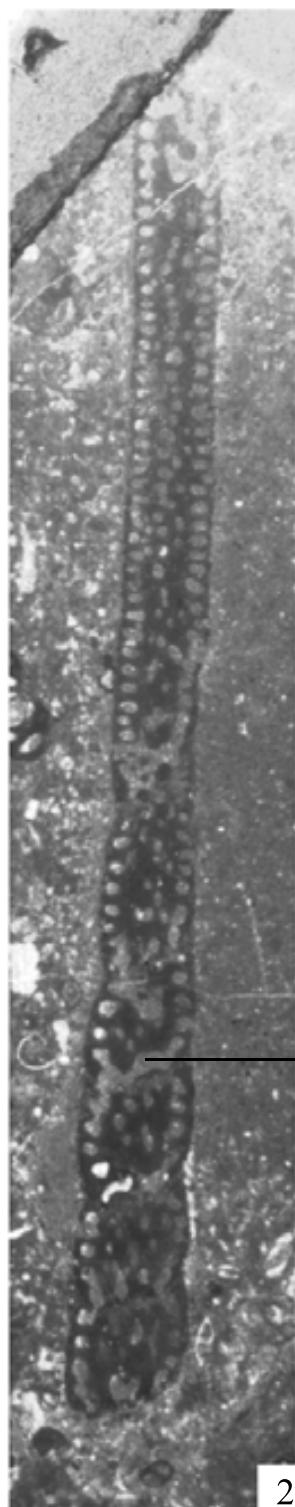
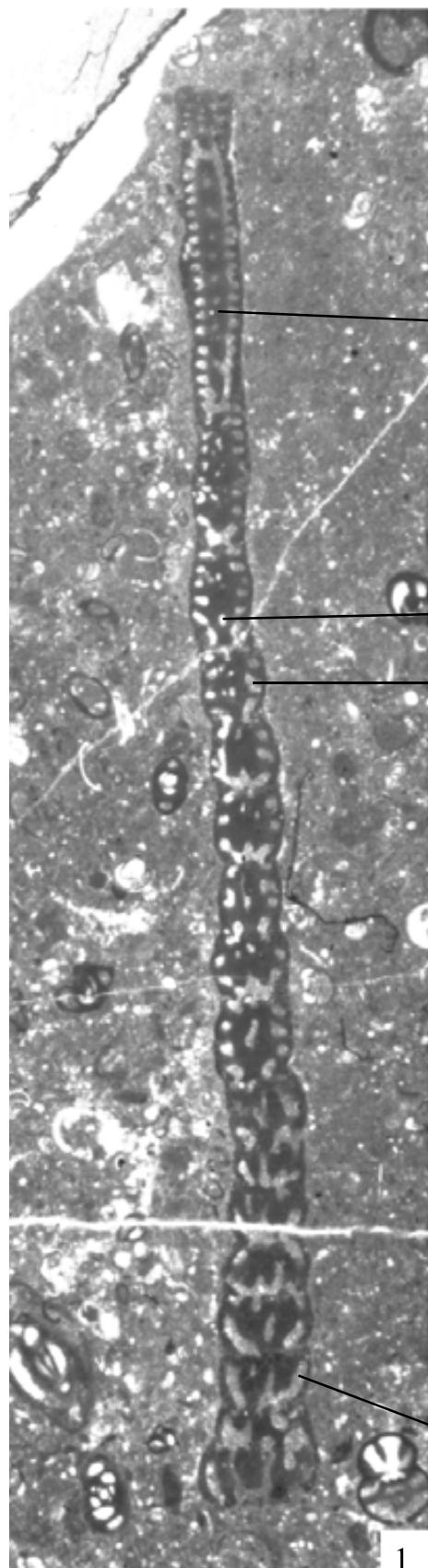


PLATE 36

Cyclopseudedomia smouti Fleury 1974

1-3, 5, 6: megalospheric? forms

4: microspheric? form

Topotypes. Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age. Sample Py-12 from Pylos, Peloponnese, (Greece). 1-3, 5, 6: oblique sections (x50). 4: oblique section (x25).

ABBREVIATIONS: **bl:** basal layer/capa basal; **c chl:** cortical chamberlet/camarilla cortical; **m chl:** medullar chamberlet/camarilla medular; **sl:** septula/tabique

PLATE 36

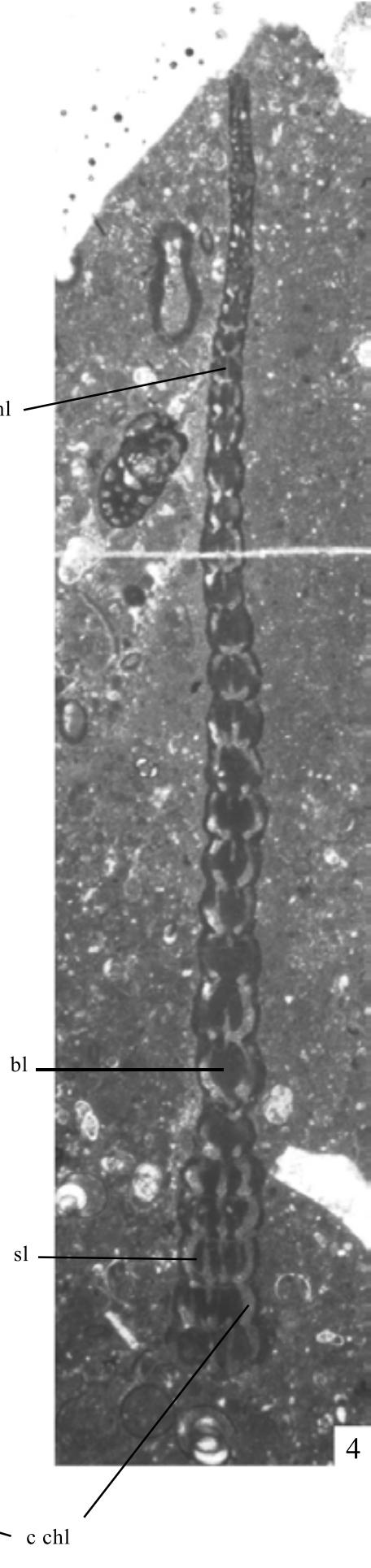
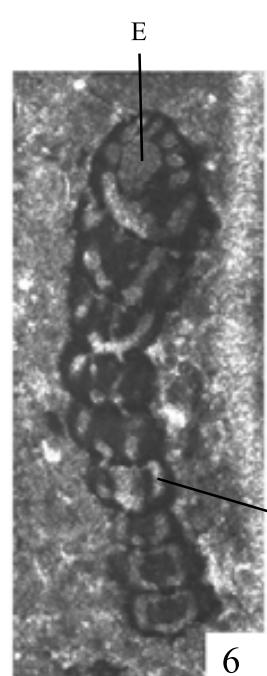
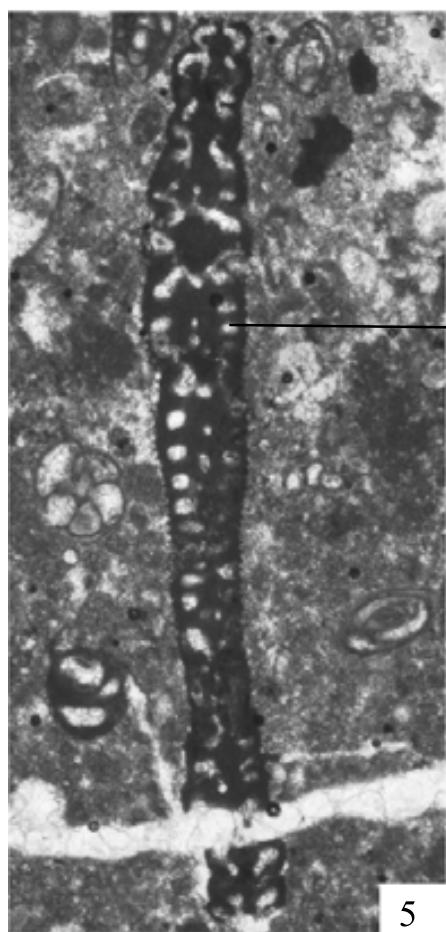
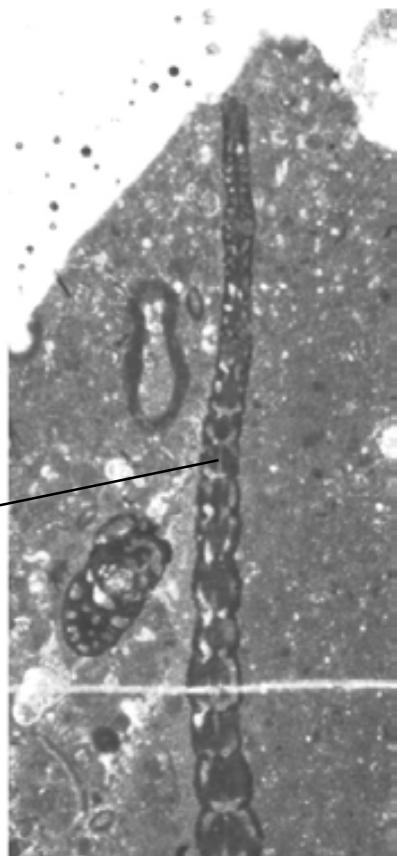
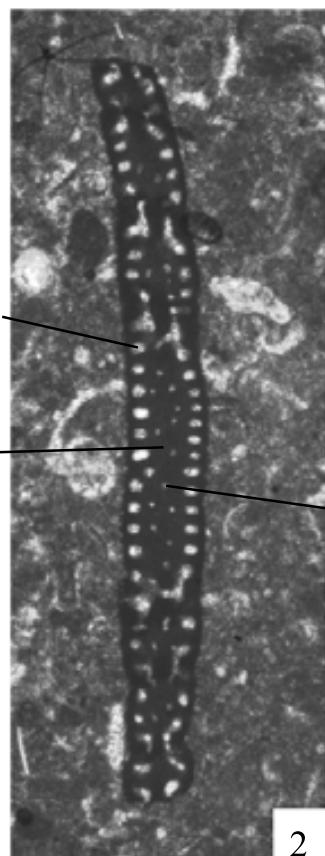
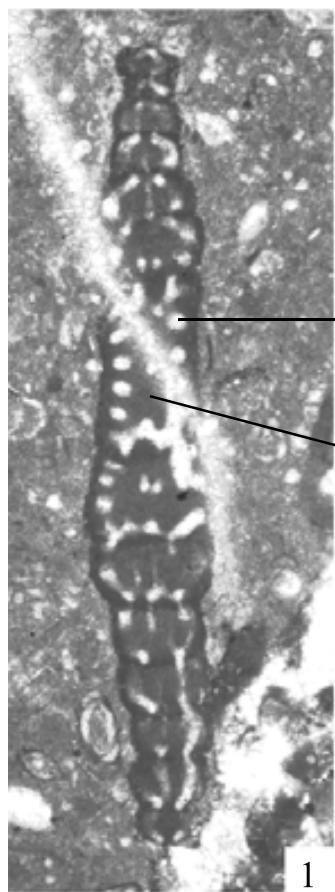


PLATE 37

Cuvillierinella salentina Papetti and Tedeschi 1965

megalospheric forms (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age, cut out from the including sediment of similar opaqueness. Sample Py-12 from Pylos, Peloponnese, (Greece). 1, 3, 5, 6: axial sections. 2, 7: equatorial sections. 8: oblique-centered section close to axial plane.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **c fo:** *cortical foramen*; **f:** *flexostyle/canal flexostílico*; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla medular*; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **sh:** *shaft*; **sl:** *septula/tabique*

PLATE 37

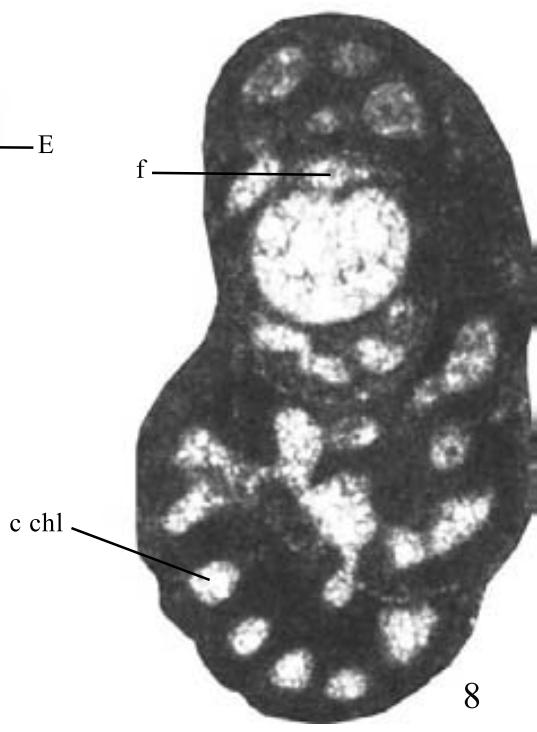
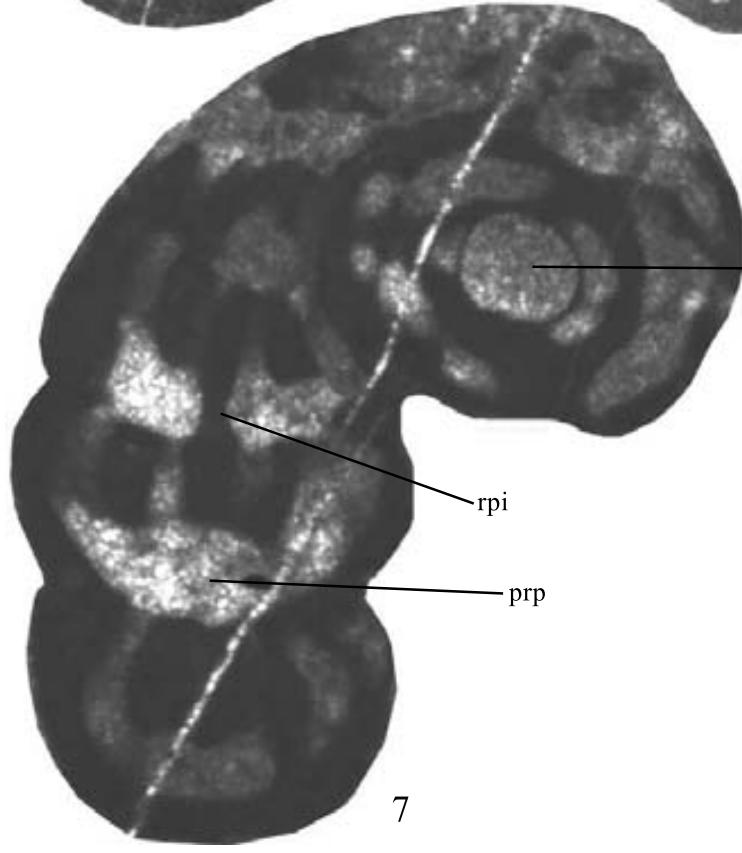
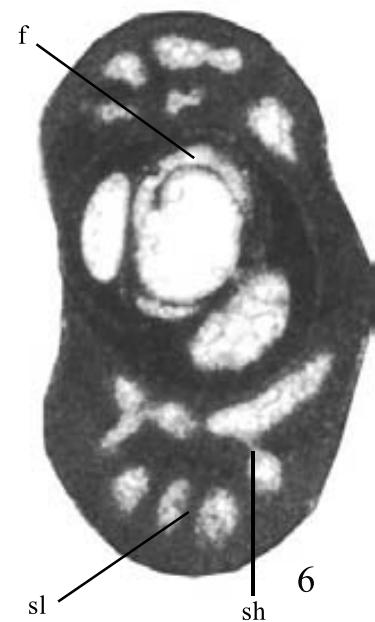
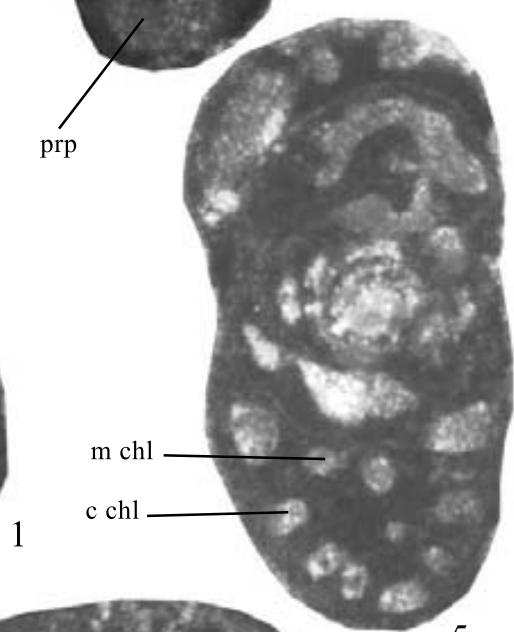
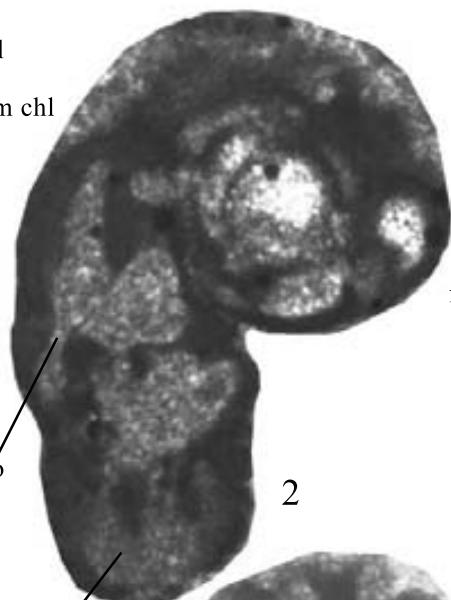
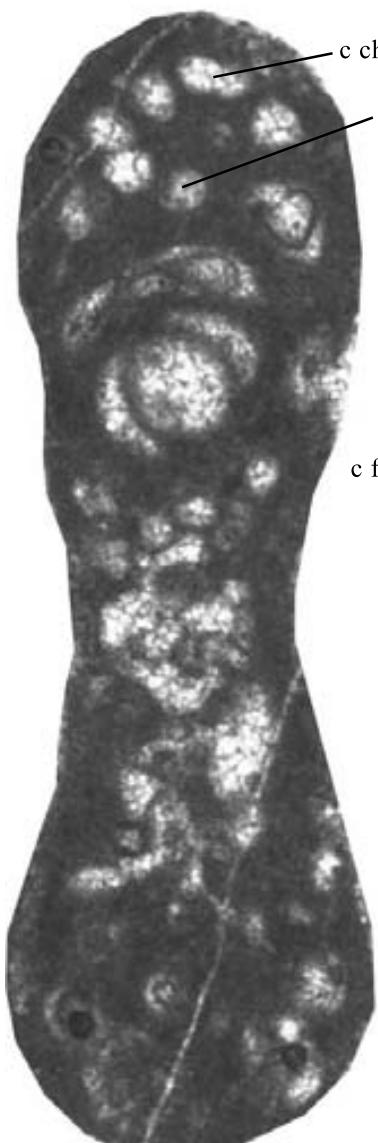


PLATE 38

Cuvillierinella salentina Papetti and Tedeschi 1965

megalospheric forms (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age, cut out from the including sediment of similar opaqueness. Sample Py-12 from Pylos, Peloponnese, (Greece). 1, 3, 6-8: axial sections. 2: sub-axial section. 4, 5: oblique-centered sections close to axial plane. 9: oblique section.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **flo:** *floor/suelo*; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **sl:** *septula/tabique*

PLATE 38

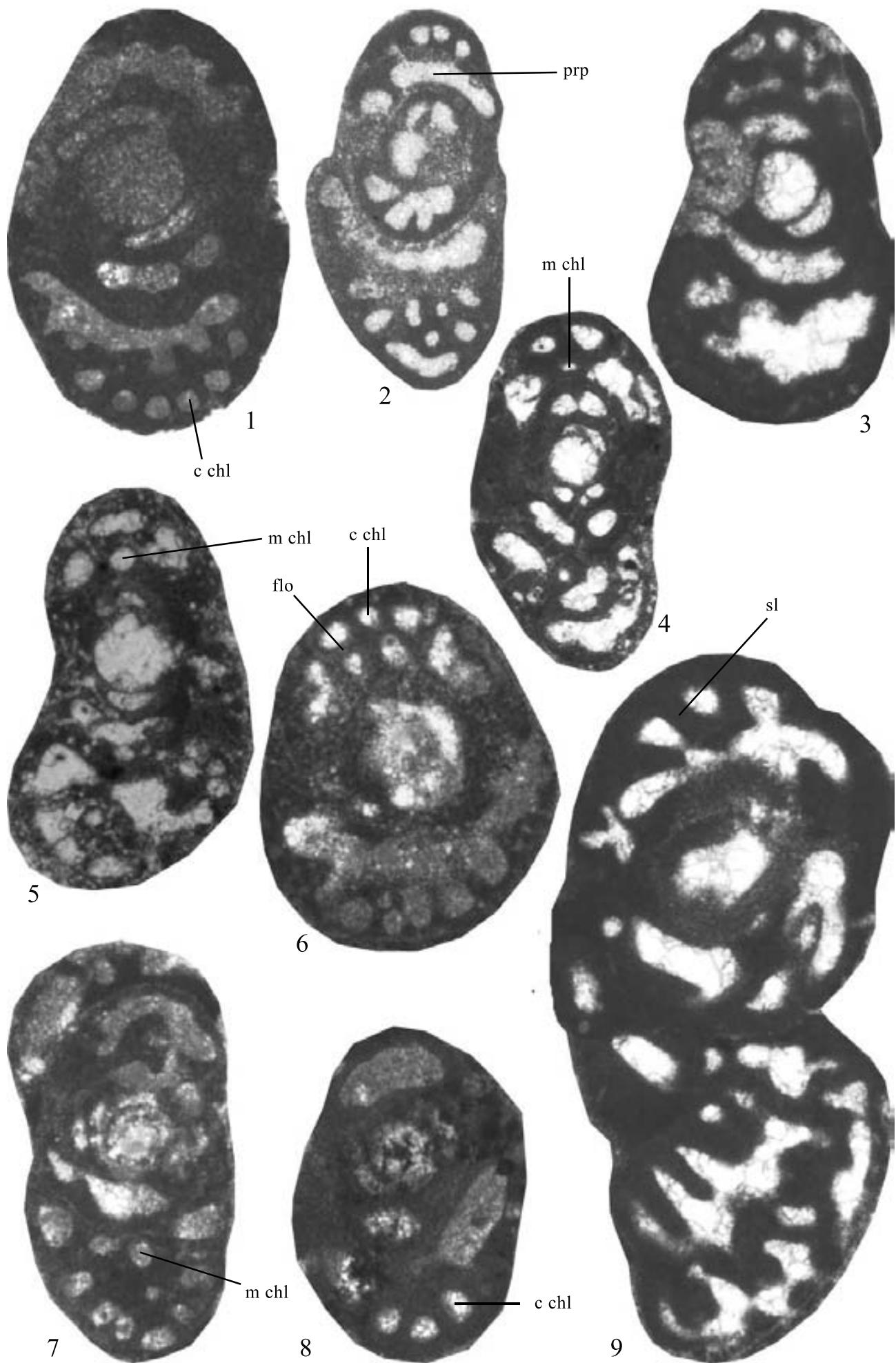


PLATE 39

Cuvillierinella salentina Papetti and Tedeschi 1965

megalospheric forms (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age, cut out from the including sediment of similar opaqueness. Sample Py-12 from Pylos, Peloponnese, (Greece). 1: oblique-centered section close to axial plane. 2: oblique section close to equatorial plane. 3, 5, 6: longitudinal section of uncoiled growth. 4: oblique section. 7-9: transverse section of uncoiled growth.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*; **s:** *septum/septo*

PLATE 39

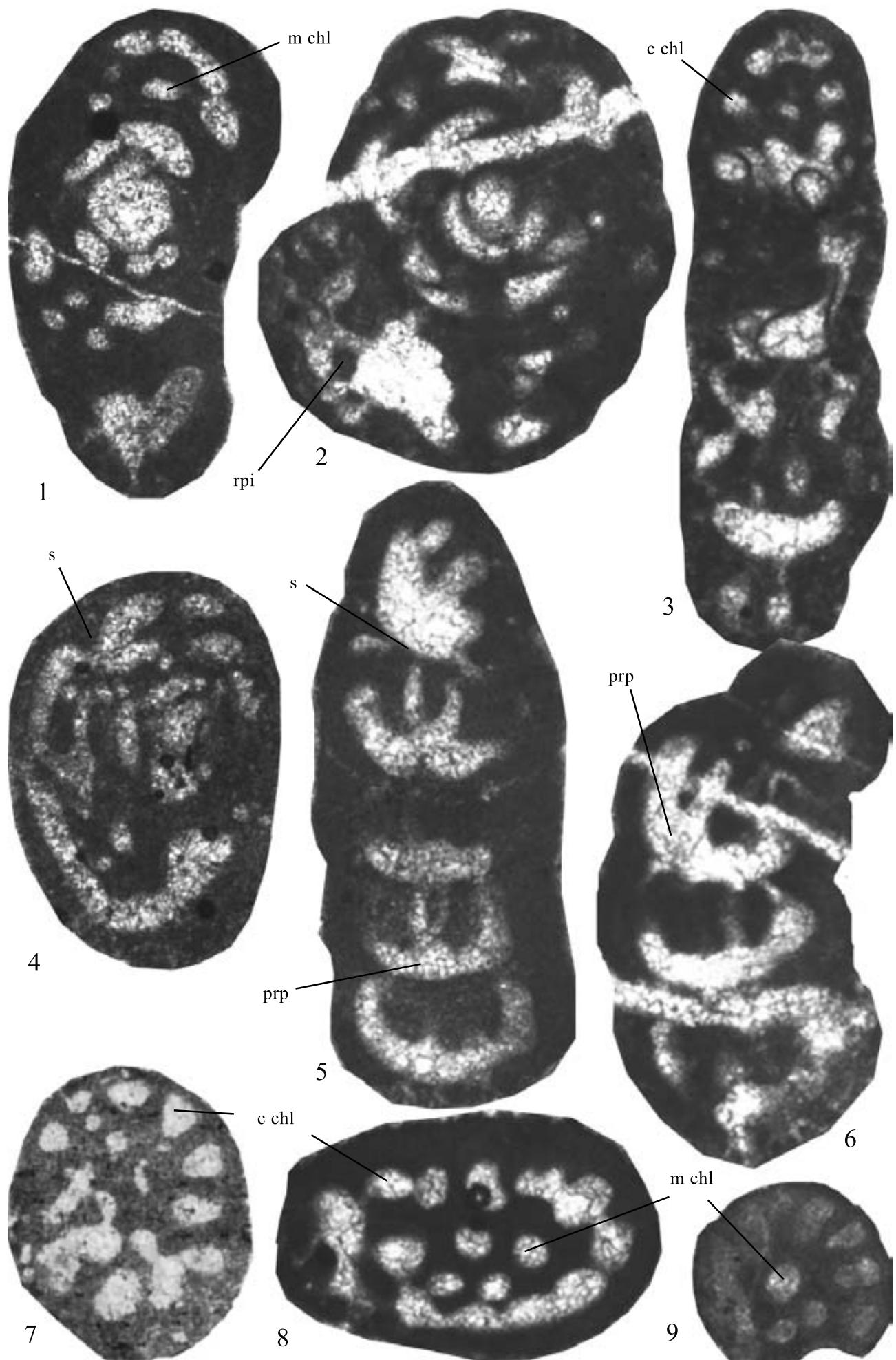


PLATE 40

Cuvillierinella n. sp.1

1-6, 9: megalospheric forms (x100)

7, 8: microspheric forms? (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age. Sample *HE* from Hellín, Betic domain (Spain). 1: oblique-centered section close to equatorial plane; 2, 3: longitudinal section from uncoiled part of the shell. 4-6: oblique section; 7: oblique section close to equatorial plane; 8: subaxial section; 9: transverse section from uncoiled part of the shell.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **E:** embryo/embrión; **fo:** *foramen*; **m chl:** *medullar chamberlet/camarilla* medular; **m fo:** *medullar foramen/foramen* medular; **prp:** *preseptal passage/espacio preseptal*; **sl:** *septula/tabique*

PLATE 40

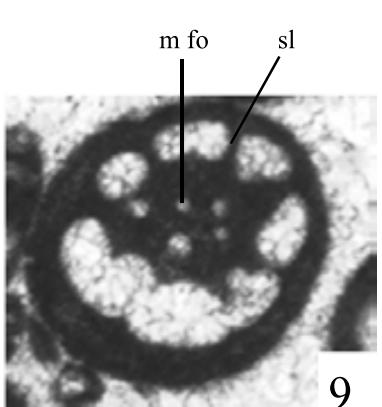
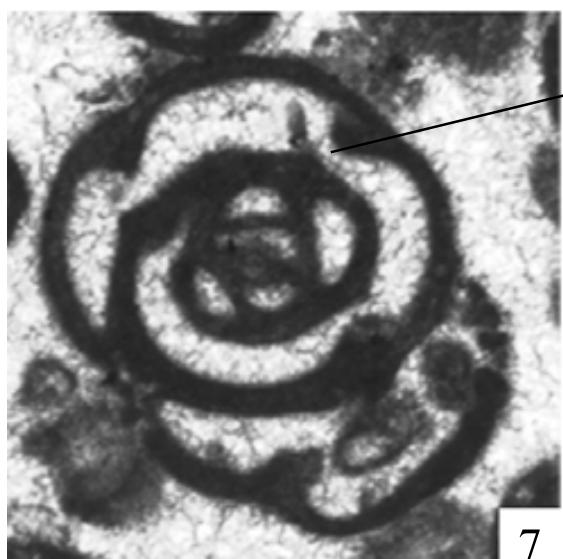
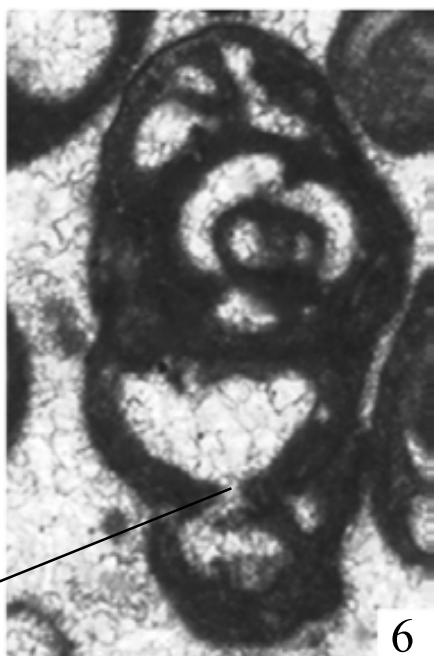
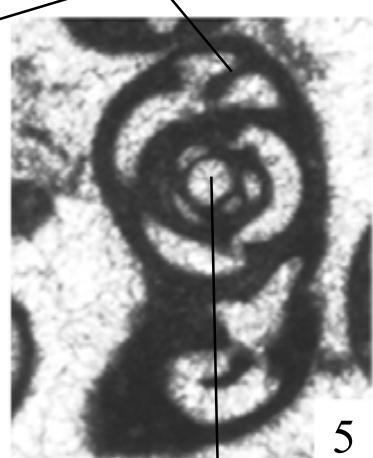
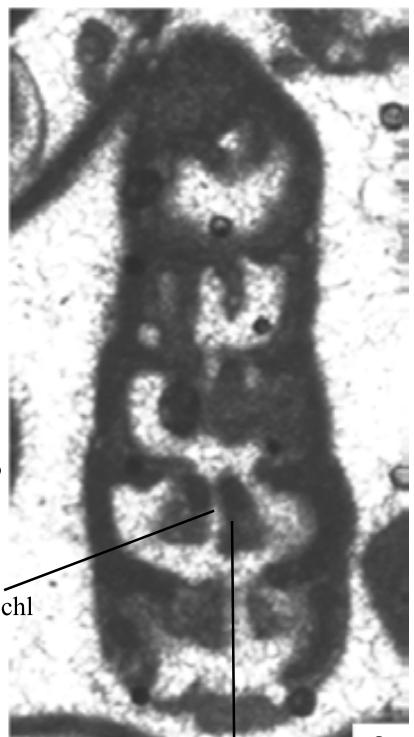
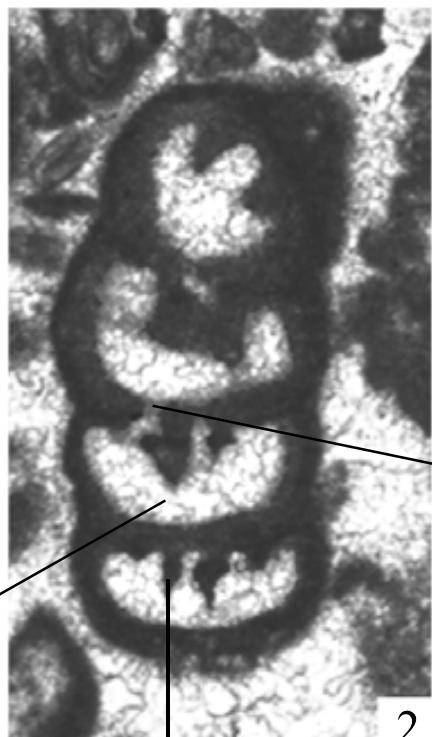


PLATE 41

Rhapydionina fleuryi n. sp.

megalospheric forms (x100)

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age, cut out from the including sediment of similar opaqueness. Sample Py-12 from Pylos, Peloponnese, (Greece). 1: oblique section. 2: axial section. 3: oblique section. 4: oblique-centered section.

ABBREVIATIONS: **c fo:** *cortical foramen*; **E:** embryo/embrión; **m fo:** *median foramen*; **prp:** *preseptal passage*/espacio preseptal; **sl:** *septula*/tabique

PLATE 41

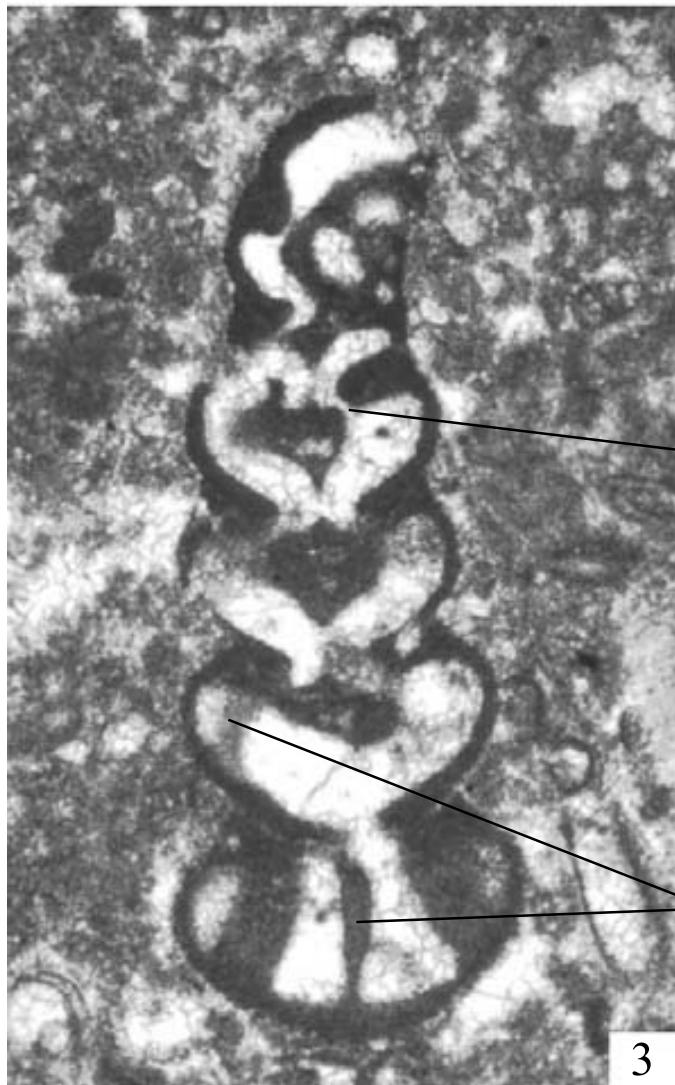
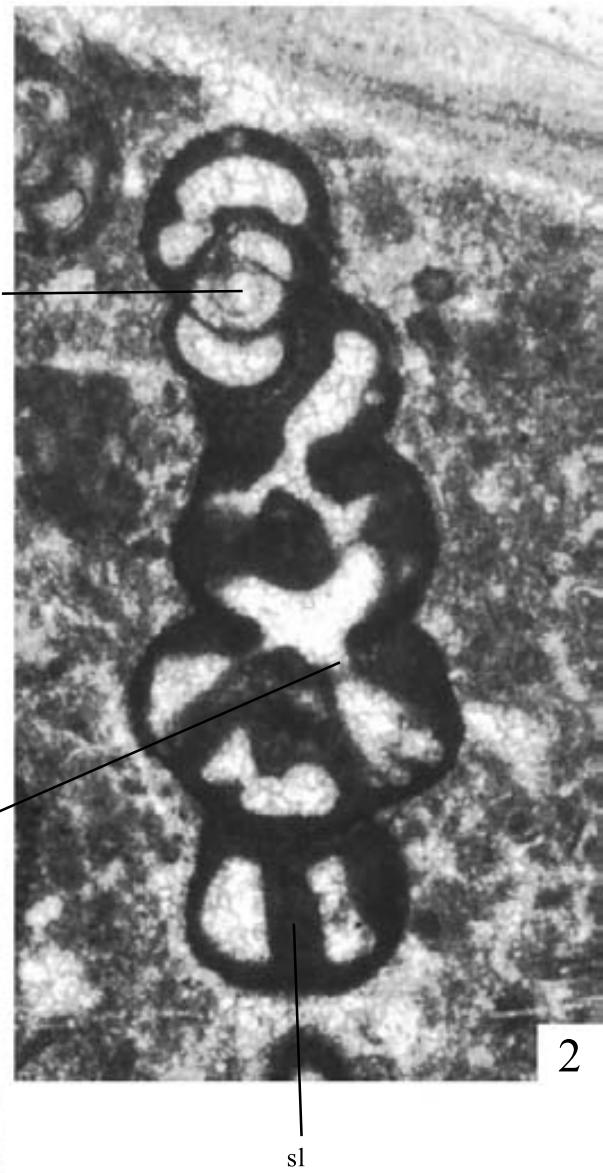


PLATE 42

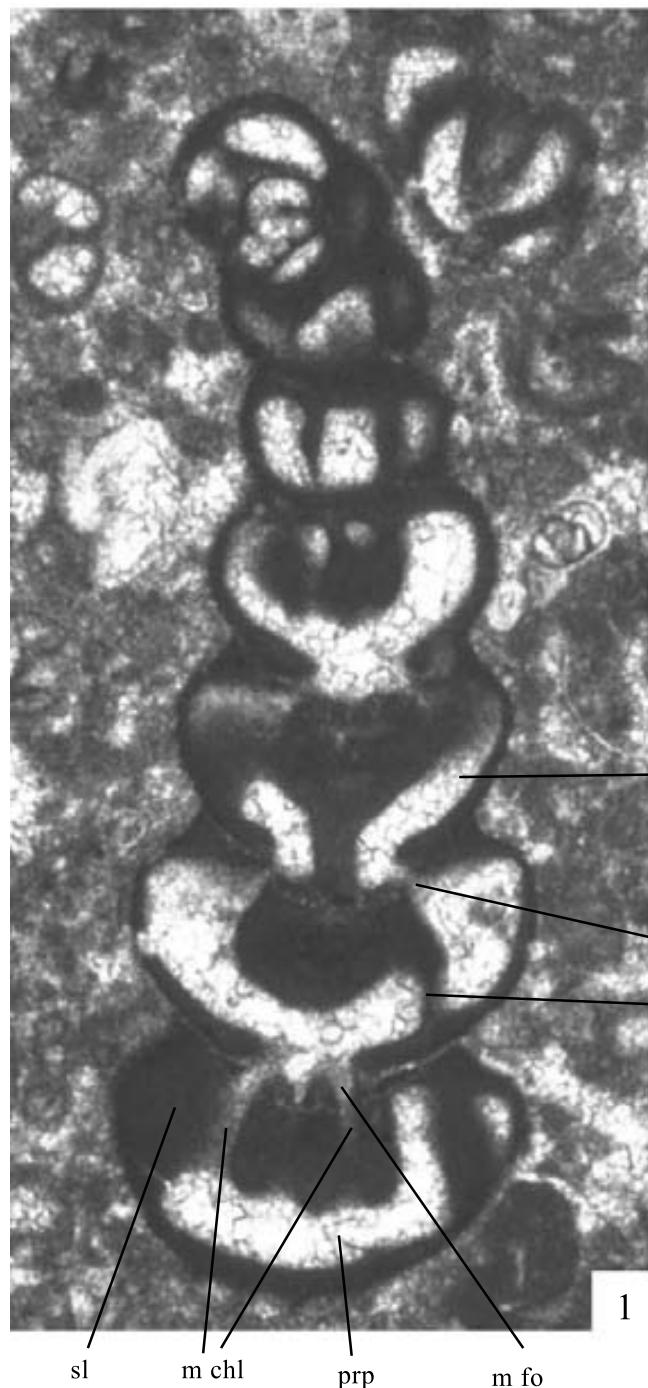
Rhapydionina fleuryi n. sp.

megalospheric forms (x100)

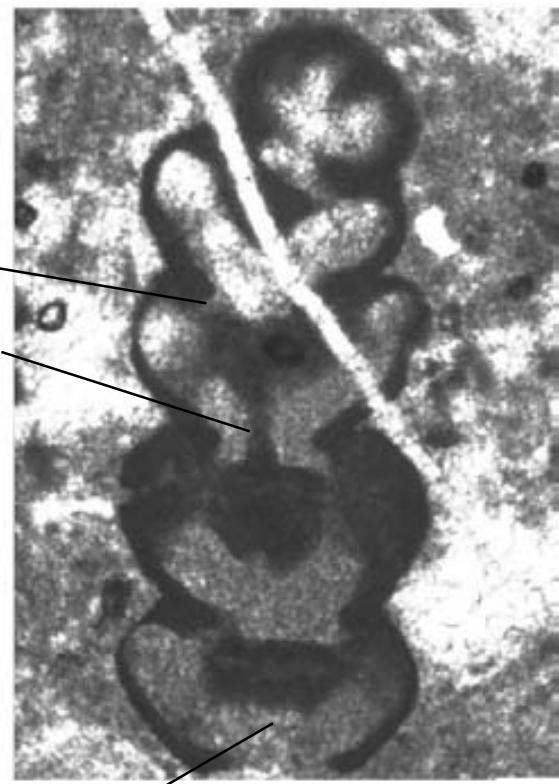
Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age, cut out from the including sediment of similar opaqueness. Sample Py-12 from Pylos, Peloponnese (Greece). 1: axial section. 2-4: longitudinal sections of uncoiled stage. 3: transversal section.

ABBREVIATIONS: **c chl:** cortical chamberlet/camarilla cortical; **c fo:** cortical foramen; **m chl:** medullar chamberlet/camarilla medular; **m fo:** median foramen; **prp:** preseptal passage/espacio preseptal; **rpi:** residual pillar/pilar residual; **s:** septum/septo; **sl:** septula/tabique

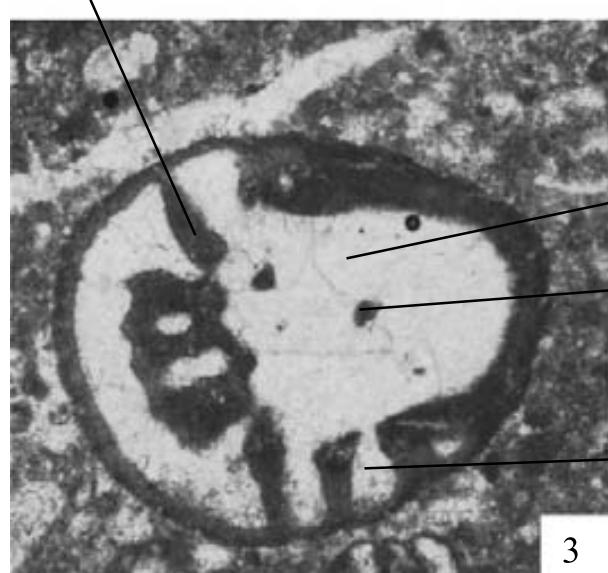
PLATE 42



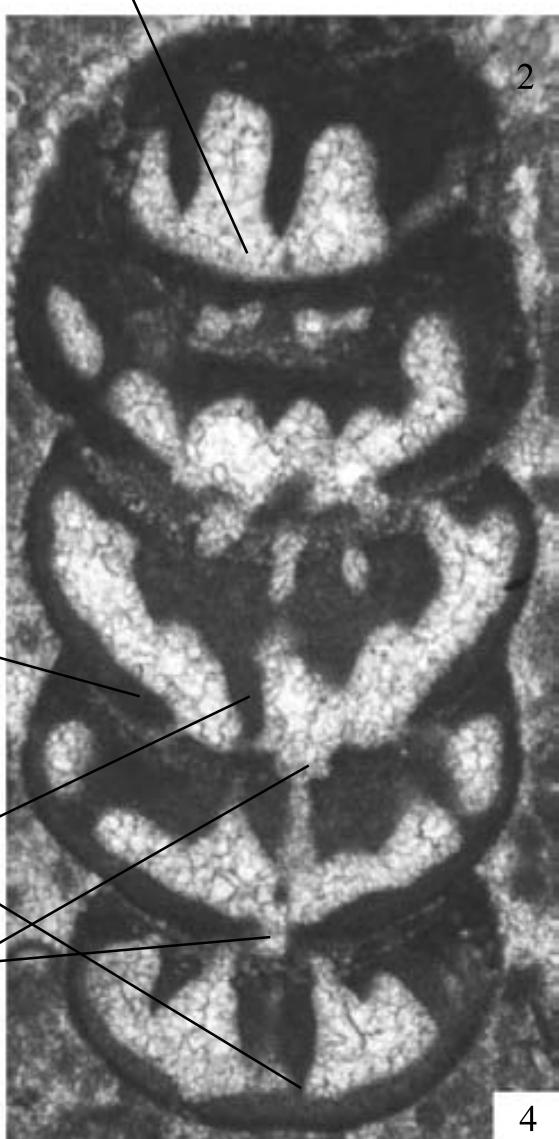
1



2



3



4

PLATE 43

Rhapydionina liburnica Stache 1913

megalospheric forms

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age. Sample *Vytina* from Vytina, Peloponnese (Greece). 1: longitudinal/oblique section of uncoiled stage of growth (x50). 2: longitudinal/oblique section of uncoiled stage of growth (x100). 3: detail from fig.2 (x200). Observe in the last figure that in the cetral part of the septum the shell thikness seems to increase.

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **m chl:** *medullar chamberlet/camarilla* medular; **prp:** *preseptal passage/espacio preseptal*; **rpi:** *residual pillar/pilar residual*

PLATE 43

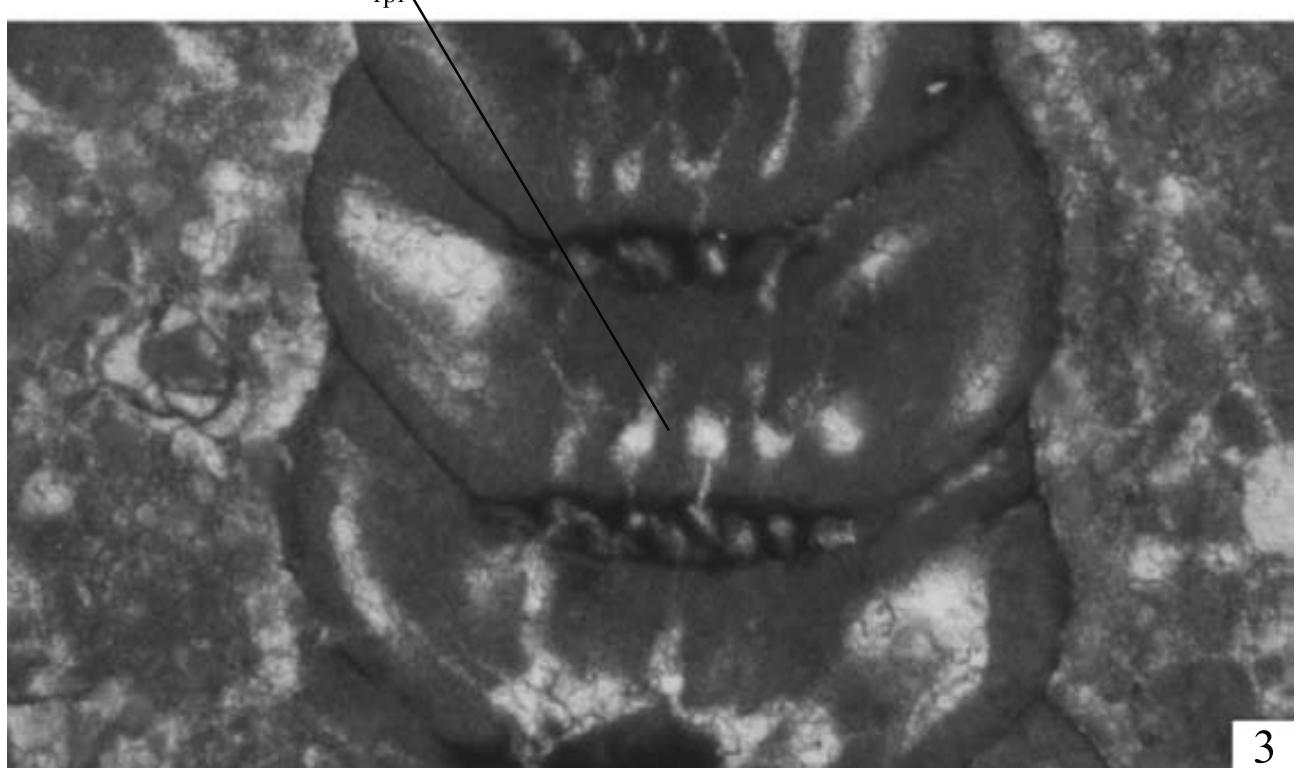
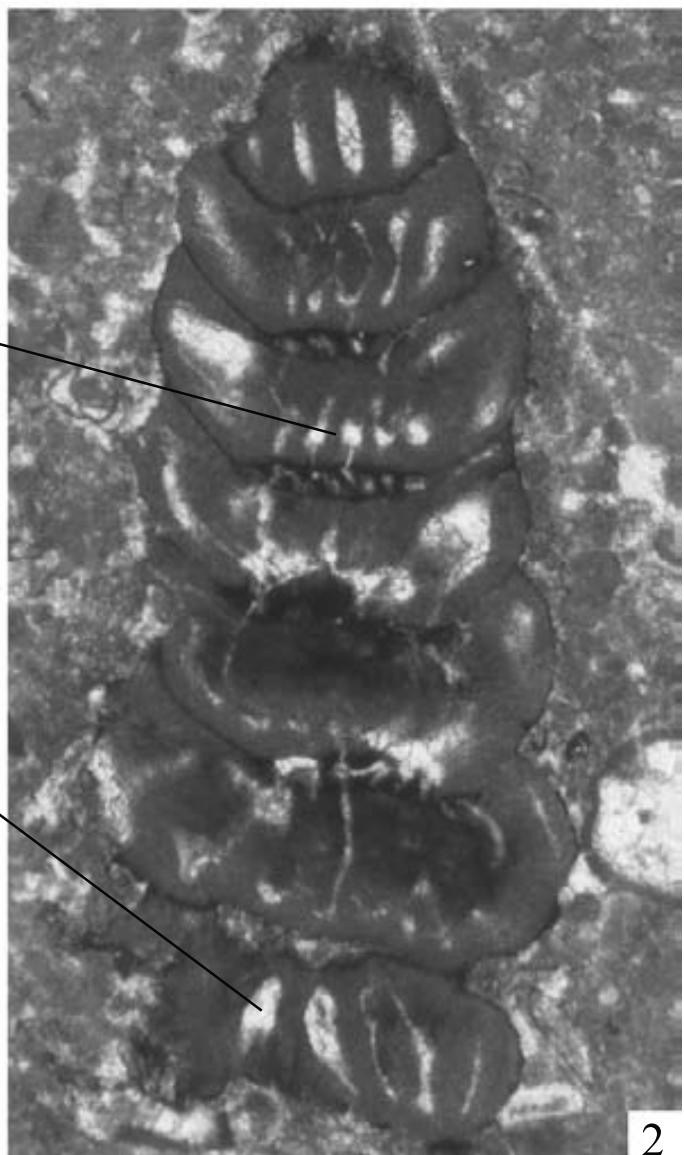
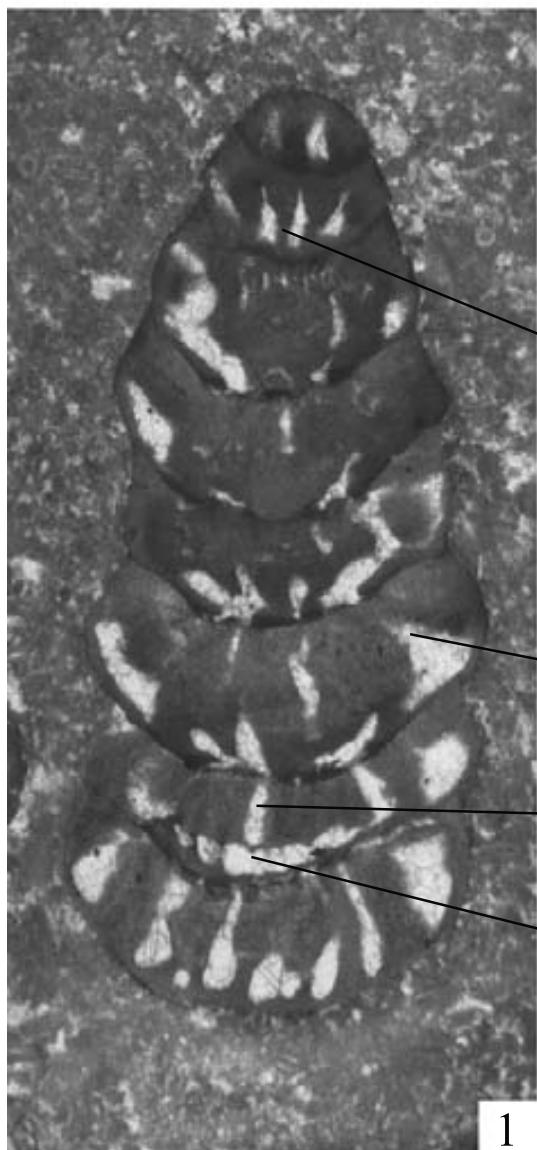


PLATE 44

Rhapydionina liburnica Stache 1913

megalospheric forms

Transmitted light micrographs of thinsections of cemented carbonates of Campanian-Maastrichtian age. Sample *Vytina* from Vytina, Peloponnese (Greece). Sections of the uncoiled stage. 1, 4: oblique section (x50). 2, 3: longitudinal sections (x50). 5: transverse section (x100).

ABBREVIATIONS: **c chl:** cortical *chamberlet/camarilla* cortical; **m chl:** *medullar chamberlet/camarilla* medular; **m fo:** *median foramen*; **rpi:** *residual pillar/pilar residual*; **sl:** *septula/tabique*

PLATE 44

