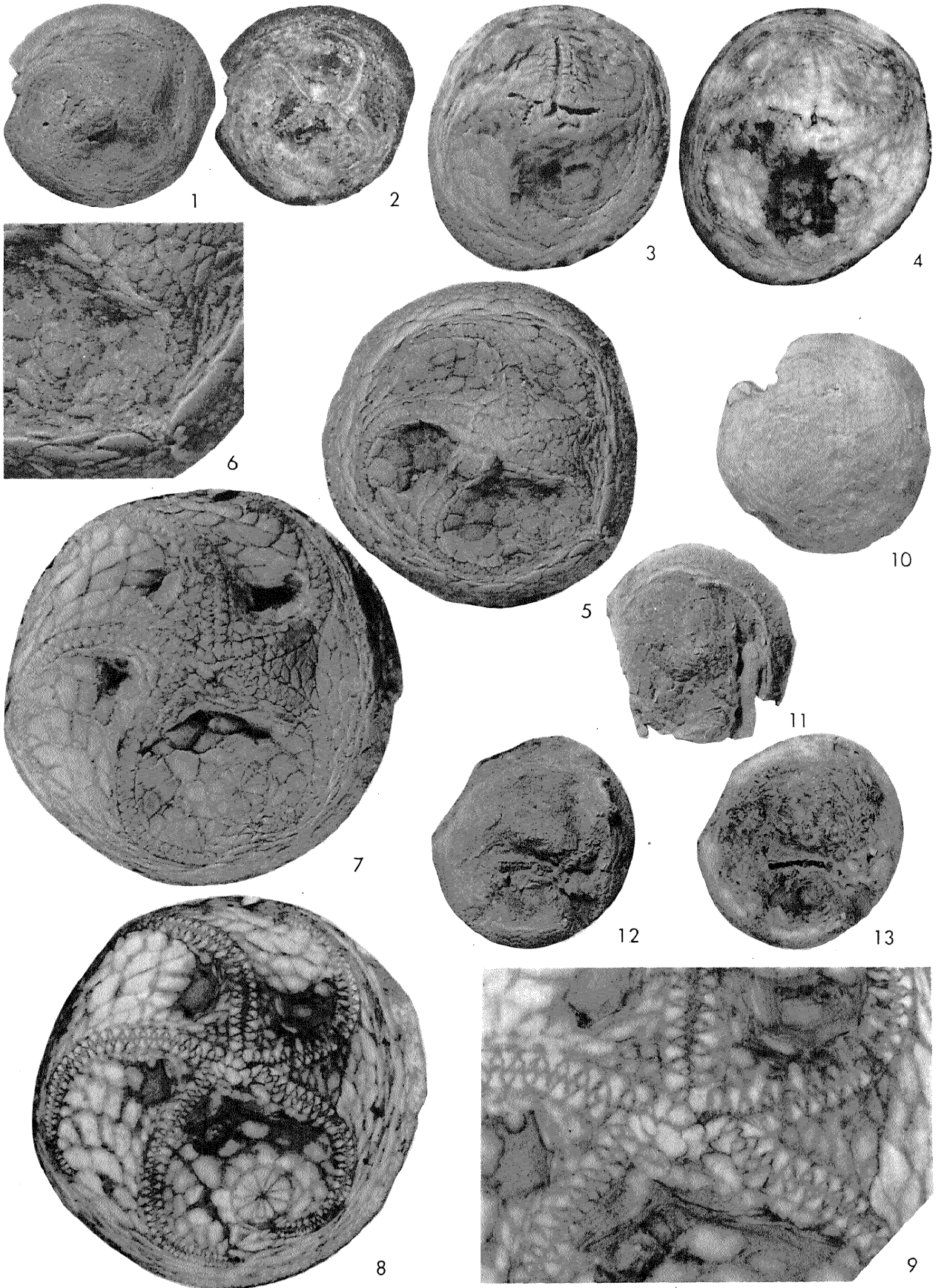


## PLATE 28

*Isorophus cincinnatiensis* (Roemer), 1851

- 1-2. UCMP 40467.
  1. Oral surface,  $\times 2$ , whitened.
  2. Oral surface,  $\times 2$ , in xylene.
- 3-4. UCMP 40468.
  3. Oral surface,  $\times 3$ , whitened.
  4. Oral surface,  $\times 3$ , in xylene.
- 5-6. UCMP 40469.
  5. Oral surface,  $\times 3$ , whitened.
  6. Ambulacrum V and adjacent structures,  $\times 6$ , whitened.
- 7-9. UCMP 40470.
  7. Oral surface,  $\times 3$ , whitened.
  8. Oral surface,  $\times 3$ , in xylene (text fig. 1C, 23B).
  9. Oral region,  $\times 6$ , in xylene.
10. UCMP 40473, oral surface.  $\times 2$ , whitened.
11. UCMP 40472, oral surface with burrow filling in disrupted right side of theca,  $\times 2$ , whitened.
- 12-13. UCMP 40471.
  12. Oral surface with burrow filling in disrupted posterior part of theca,  $\times 2$ , whitened.
  13. Oral surface with burrow filling in disrupted posterior part of theca,  $\times 2$ , in xylene.

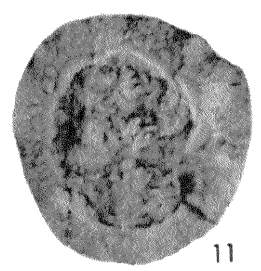
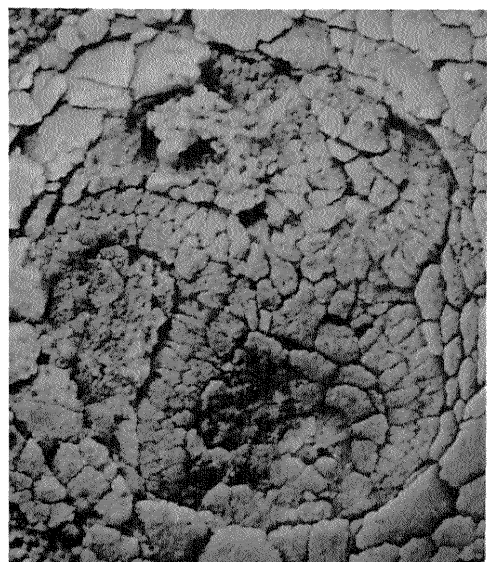
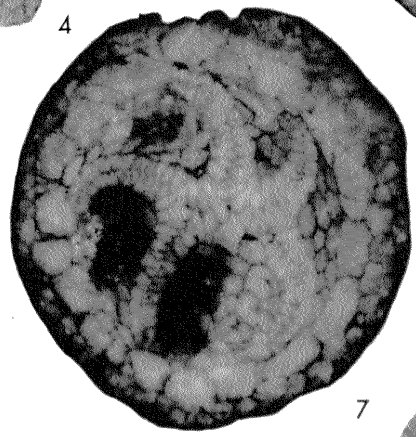
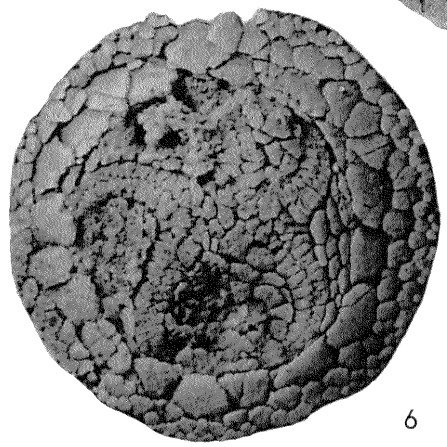
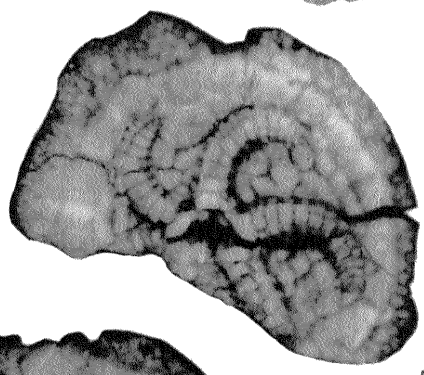


## PLATE 29

*Isorophus austini* (Foerste), 1914

1. USNM 70162-C-1, lectotype, oral surface,  $\times 6$ , whitened.
2. USNM 70162-B, lectoparatype, inner side of oral surface,  $\times 6$ , whitened.
3. USNM 70162-A, lectoparatype, oral surface,  $\times 6$ , whitened.
- 4-5. USNM S-3961.
  4. Inner side of oral surface,  $\times 6$ , whitened.
  5. Inner side of oral surface,  $\times 6$ , in xylene.
- 6-8. USNM 70162-D.
  6. Oral surface,  $\times 10$ , whitened.
  7. Oral surface,  $\times 10$ , in xylene (text fig. 26).
  8. Oral-ambulacral region,  $\times 15$ , whitened.
9. USNM 70162-C-3, lectoparatype, oral surface,  $\times 6$ , whitened.
10. USNM S-3963-B, oral surface,  $\times 4$ , whitened.
11. USNM S-3963-C, oral surface,  $\times 5$ , whitened.





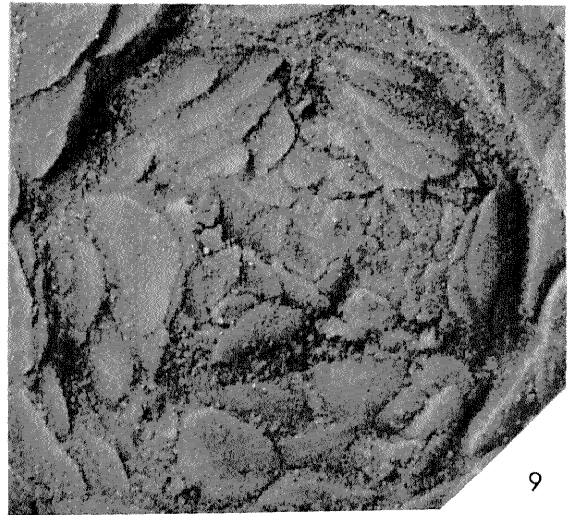
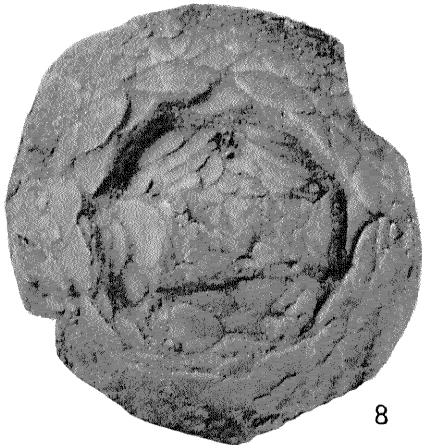
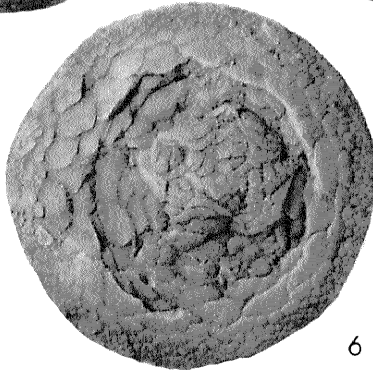
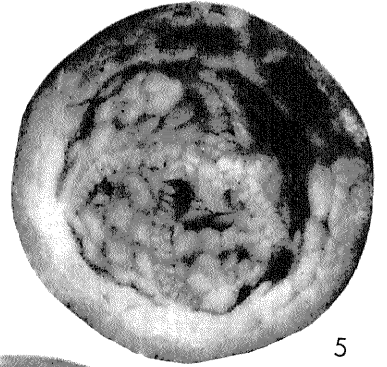
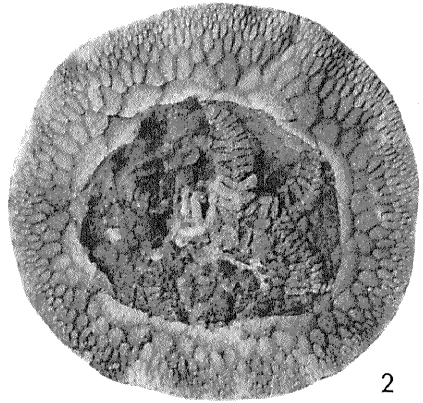
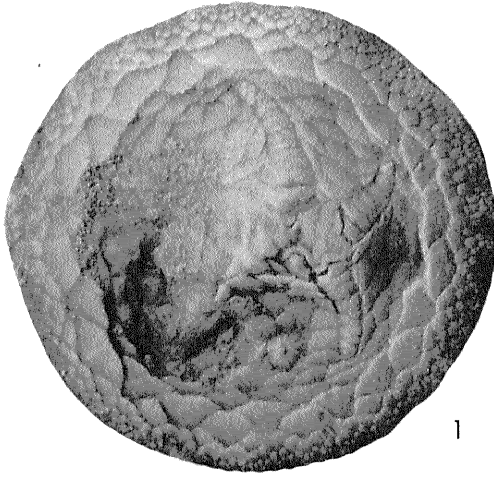
## PLATE 30

*Isorophus austini* (Foerste), 1914. Fig.1-2.

1. USNM 91841, oral surface,  $\times 6$ , whitened.
2. USNM S-3963-A, oral surface,  $\times 6$ , whitened.

*Isorophus warrenensis* (James), 1883. Fig. 3-9.

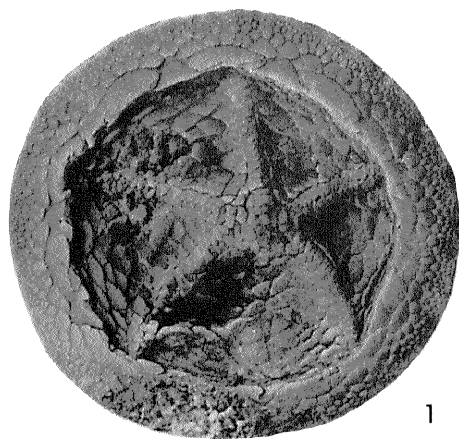
3. USNM S-3957-A, lectotype, oral surface,  $\times 4$ , whitened.
- 4-5. USNM S-3957-D, lectoparatype.
  4. Oral surface,  $\times 4$ , whitened.
  5. Oral surface,  $\times 4$ , in xylene (text fig. 27B).
6. USNM S-3957-E, lectoparatype, oral surface,  $\times 4$ , whitened (text fig. 27C).
7. USNM 70165, oral surface,  $\times 3$ , whitened.
- 8-9. USNM S-3957-C, lectoparatype.
  8. Oral surface,  $\times 5$ , whitened (text fig. 27A).
  9. Oral-ambulacral region,  $\times 10$ , whitened.



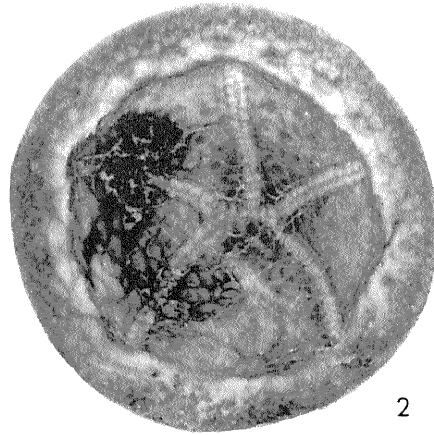
## PLATE 31

*Isorophusella incondita* (Raymond), 1915

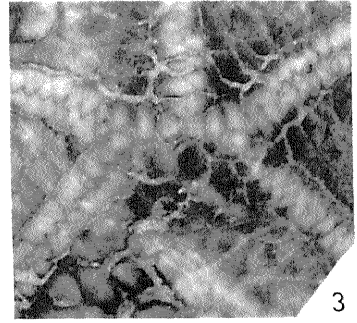
- 1-3. GSC 1409-A, holotype.
  1. Oral surface,  $\times 4$ , whitened.
  2. Oral surface,  $\times 4$ , in xylene (text fig. 28B).
  3. Oral region,  $\times 9$ , in xylene (text fig. 28A).
- 4-5. GSC 1409-B, paratype (1).
  4. Oral surface,  $\times 6$ , whitened.
  5. Oral surface,  $\times 6$ , in xylene.
- 6-7. GSC 1409-D, paratype (3).
  6. Oral surface,  $\times 4$ , whitened.
  7. Oral surface,  $\times 4$ , in xylene.
- 8-10. GSC 1409-C, paratype (2).
  8. Oral surface,  $\times 6$ , whitened.
  9. Oral surface,  $\times 6$ , in xylene.
  10. Oral-ambulacral region,  $\times 10$ , in xylene (text fig. 29A).
11. USNM 42114-A-1, advanced juvenile (holotype of *Hemicystites paulianus* Bassler, 1936), oral surface,  $\times 10$ , whitened (text fig. 29D).



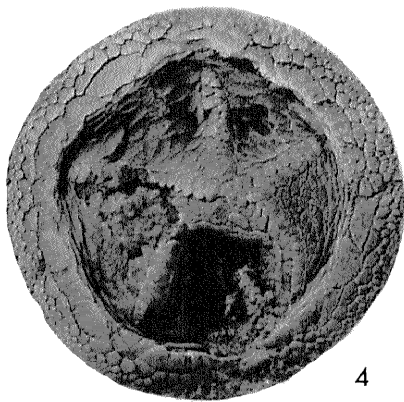
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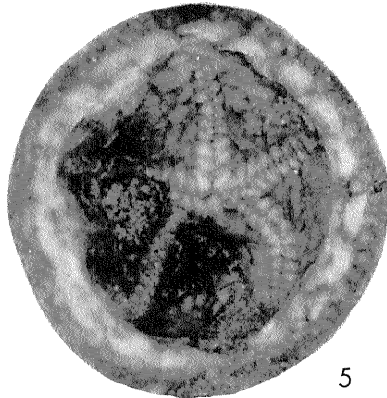
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3



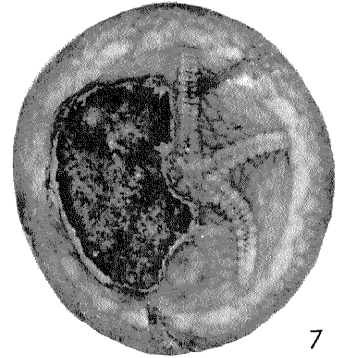
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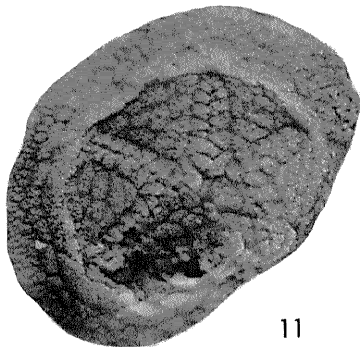
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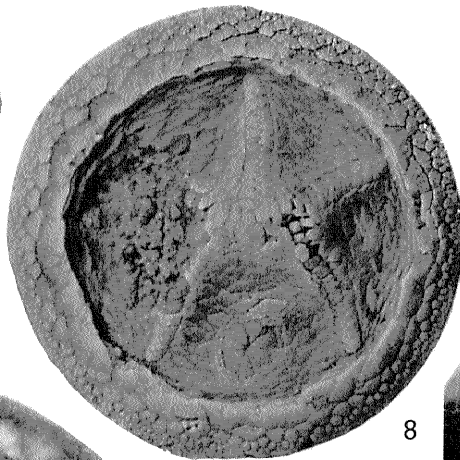
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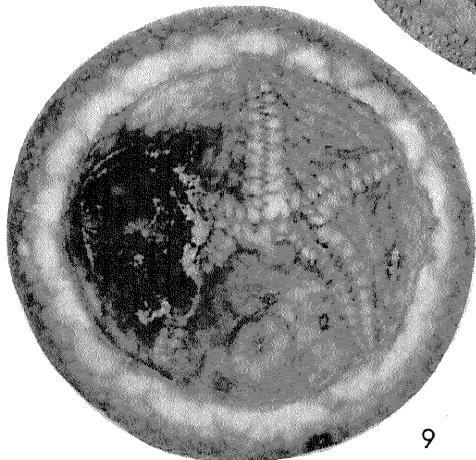
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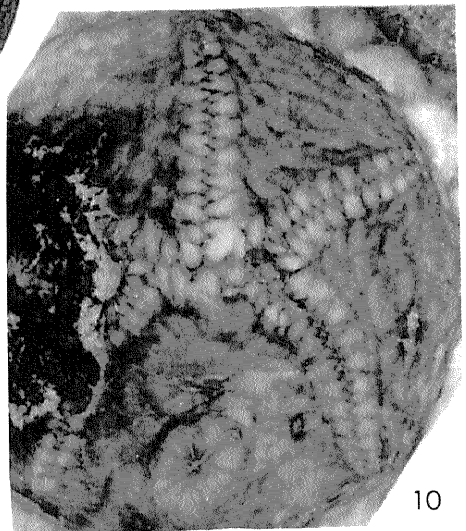
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8



9



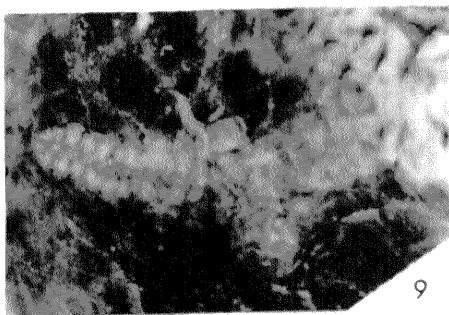
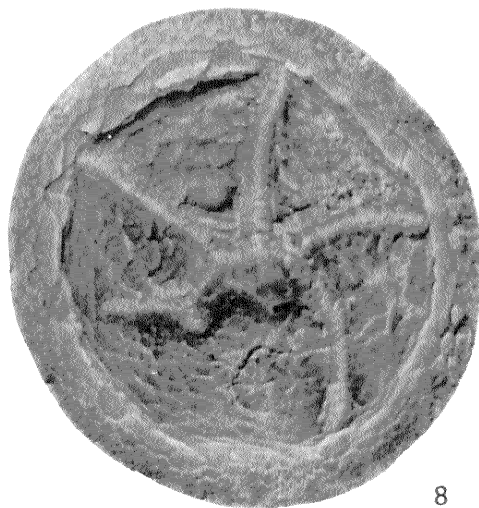
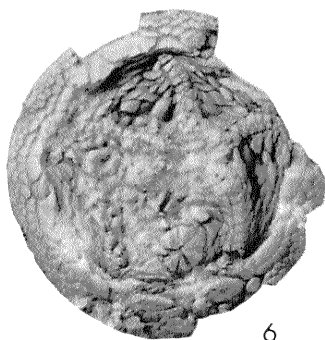
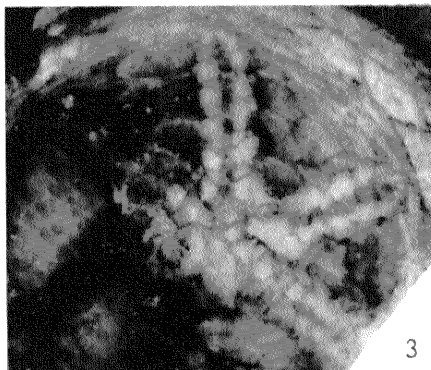
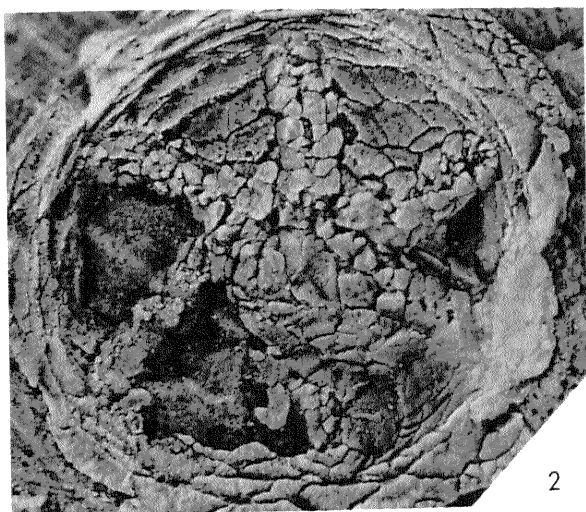
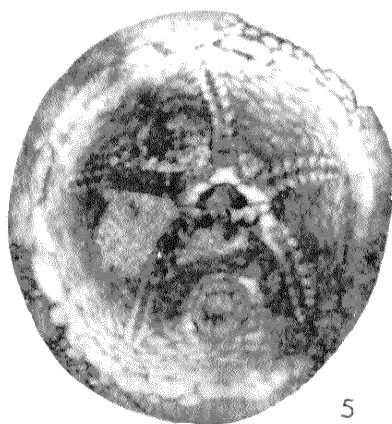
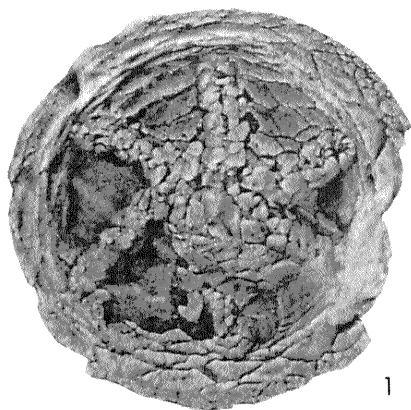
10

## PLATE 32

*Isorophusella incondita* (Raymond), 1915

- 1-3. MCZ 105 (holotype of *Carneyella raymondi* Clark, 1919).
  1. Oral surface,  $\times 8$ , whitened (text fig. 29E).
  2. Oral-ambulacral region,  $\times 12$ , whitened.
  3. Anterior two-thirds of oral-ambulacral region,  $\times 12$ , in xylene.
- 4-5. UCMP 40475.
  4. Sectional view of oral surface exposed by etching,  $\times 4$ , whitened.
  5. Sectional view of oral surface exposed by etching,  $\times 4$ , in xylene (text fig. 29B).
- 6-7. ROM 160t-h.
  6. Oral surface,  $\times 4$ , whitened.
  7. Anal structure and adjacent region,  $\times 20$ , whitened.
- 8-9. ROM 18873-A.
  8. Oral surface,  $\times 5$ , whitened.
  9. Ambulacrum I with small posterior branch,  $\times 12$ , in xylene (text fig. 29C).

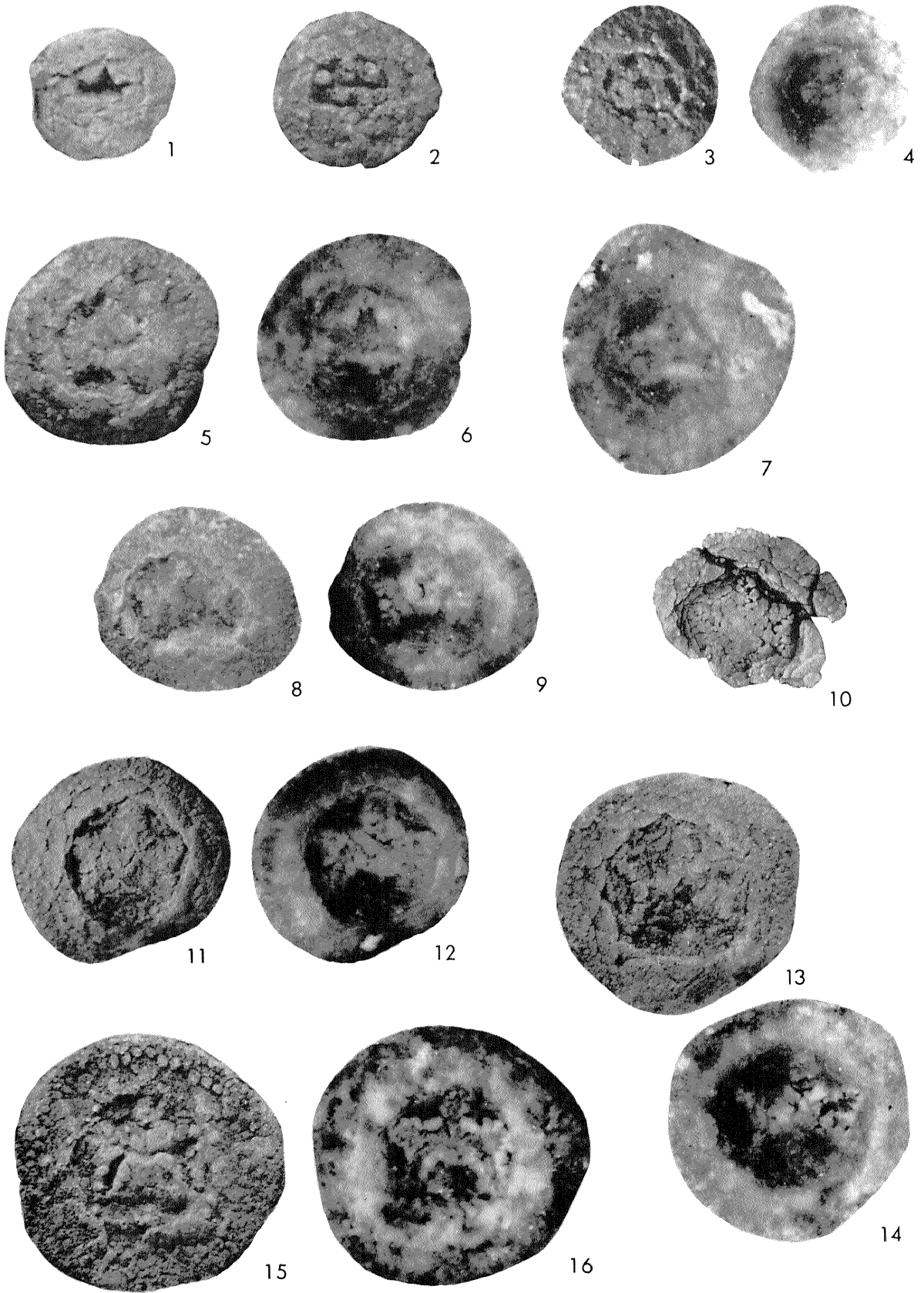




## PLATE 33

*Isorophusella incondita* (Raymond), 1915

1. ROM 160t-b-E, very young juvenile, oral surface,  $\times$  40, whitened (text fig. 30A).
2. NYSM 12775, very young juvenile, oral surface,  $\times$  35, whitened (text fig. 30B).
- 3-4. ROM 160t-c-16, young juvenile.
  3. Oral surface,  $\times$  25, whitened.
  4. Oral surface,  $\times$  25, in xylene (text fig. 30C).
- 5-6. ROM 160t-c-12, juvenile.
  5. Oral surface,  $\times$  25, whitened.
  6. Oral surface,  $\times$  25, in xylene (text fig. 30D).
7. ROM 160t-c-3, juvenile, oral surface,  $\times$  20, in xylene (text fig. 30E).
- 8-9. ROM 160t-c-11, juvenile.
  8. Oral surface,  $\times$  15, whitened.
  9. Oral surface,  $\times$  15, in xylene (text fig. 30F).
10. ROM 160t-b-D, juvenile, oral surface,  $\times$  15, whitened (text fig. 31A).
- 11-12. ROM 160t-c-4, juvenile.
  11. Oral surface,  $\times$  15, whitened.
  12. Oral surface,  $\times$  15, in xylene (text fig. 31B).
- 13-14. ROM 160t-c-8, juvenile.
  13. Oral surface,  $\times$  15, whitened.
  14. Oral surface,  $\times$  15, in xylene (text fig. 31C).
- 15-16. GSC 3235-D, juvenile.
  15. Oral surface,  $\times$  15, whitened.
  16. Oral surface,  $\times$  15, in xylene (text fig. 31D).



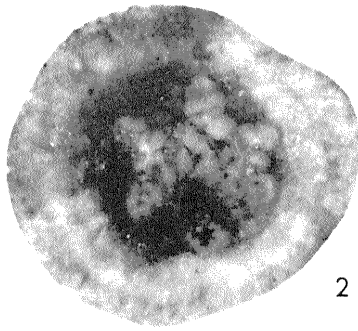
## PLATE 34

*Isorophusella incondita* (Raymond), 1915

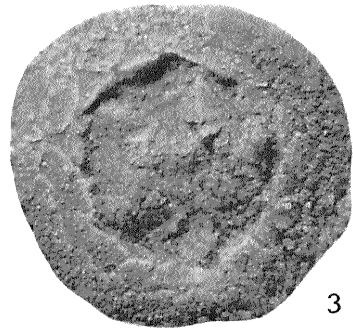
- 1-2. ROM 160t-c-9, juvenile.
  1. Oral surface,  $\times$  15, whitened.
  2. Oral surface,  $\times$  15, in xylene (text fig. 31E).
- 3-4. ROM 160t-c-15, juvenile.
  3. Oral surface,  $\times$  15, whitened.
  4. Oral surface,  $\times$  15, in xylene (text fig. 31F).
- 5-6. ROM 160t-c-10, juvenile.
  5. Oral surface,  $\times$  15, whitened.
  6. Oral surface,  $\times$  15, in xylene (text fig. 32A).
- 7-8. ROM 160t-b-C, advanced juvenile.
  7. Oral surface,  $\times$  15, whitened (text fig. 32B).
  8. Oral surface,  $\times$  15, in xylene.
- 9-10. NYSM 12776, advanced juvenile.
  9. Oral surface,  $\times$  11, whitened.
  10. Oral surface,  $\times$  11, in xylene.



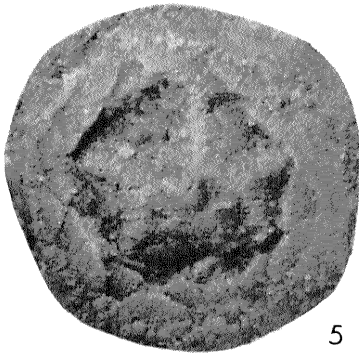
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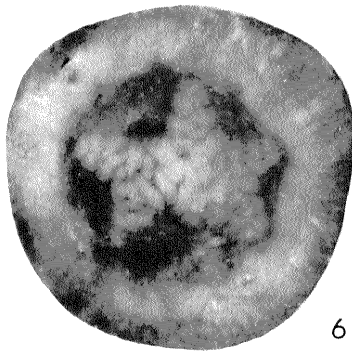
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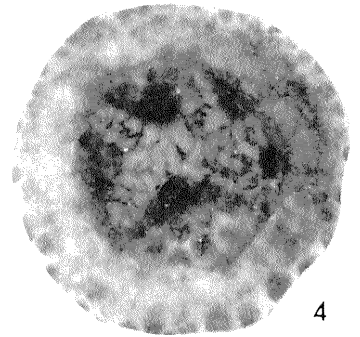
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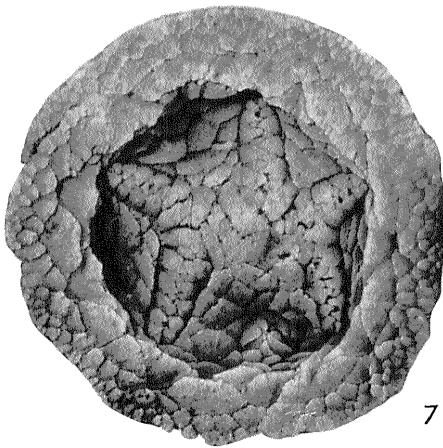
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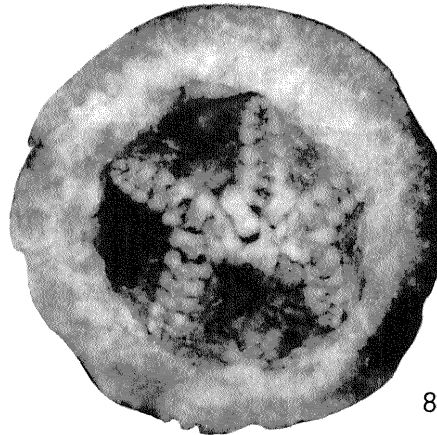
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4



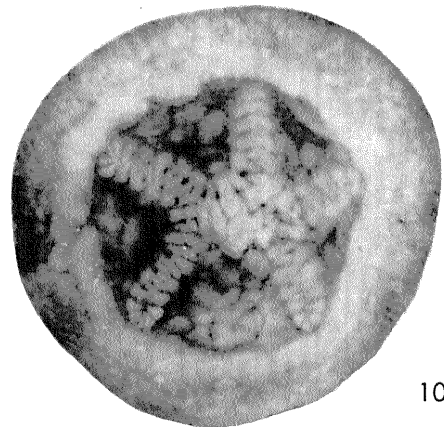
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10

## PLATE 35

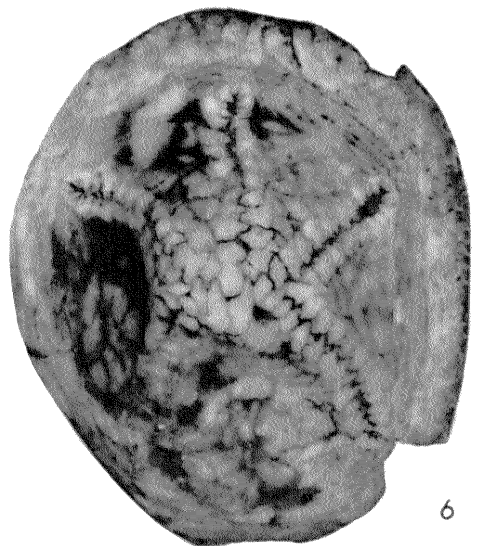
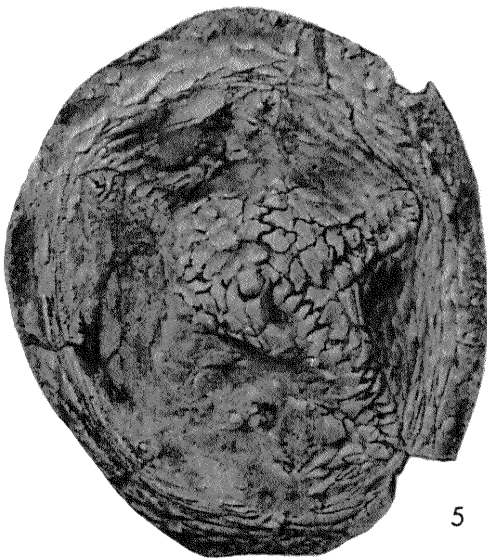
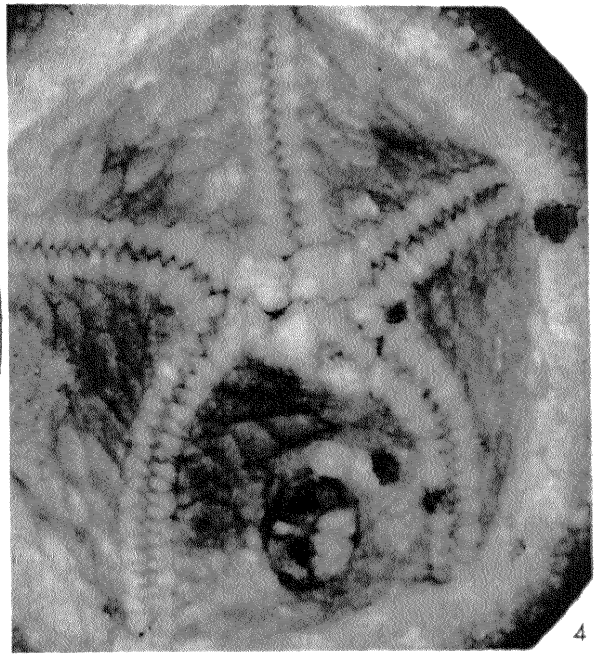
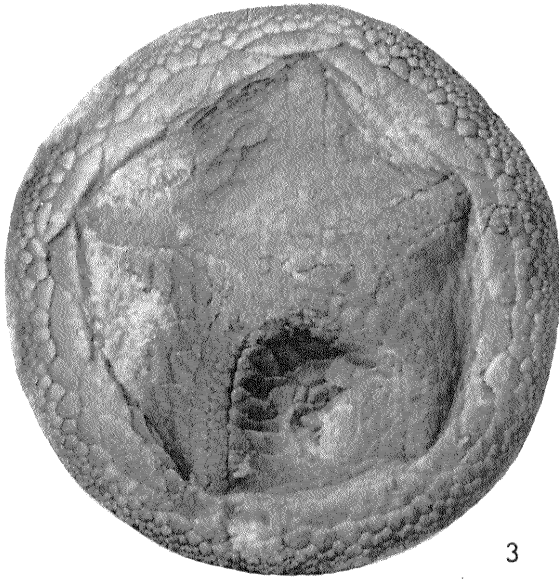
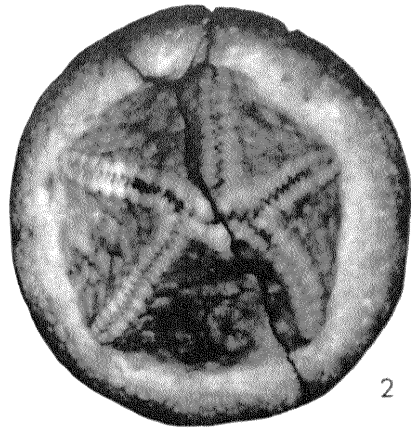
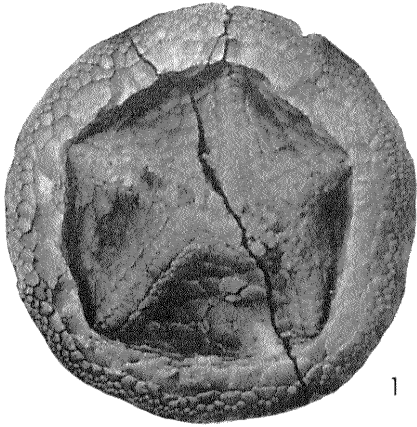
*Isorophusella incondita* (Raymond), 1915. Fig. 1-4.

- 1-2. ROM 160t-b-B, young adult.
  1. Oral surface,  $\times 8$ , whitened.
  2. Oral surface,  $\times 8$ , in xylene.
- 3-4. ROM 160t-b-A, adult.
  3. Oral surface,  $\times 10$ , whitened.
  4. Oral-ambulacral region,  $\times 15$ , in xylene.

*Isorophusella trentonensis* (Bassler), 1936. Fig. 5-6.

- 5-6. USNM 91843, holotype.
  5. Oral surface,  $\times 7$ , whitened.
  6. Oral surface,  $\times 7$ , in xylene (text fig. 33).

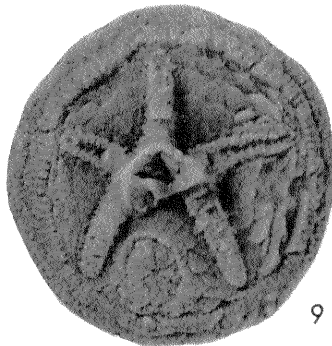
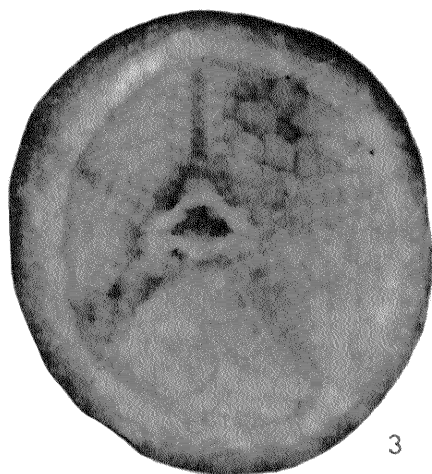
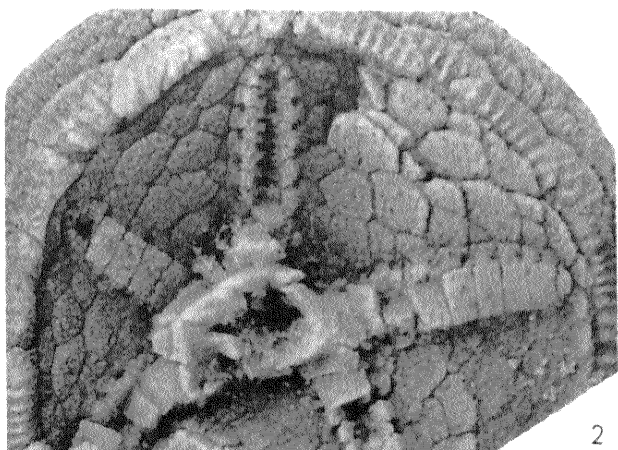
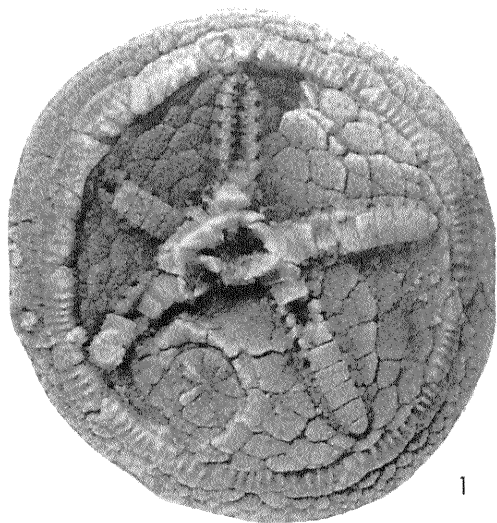




## PLATE 36

*Isorophusella pleiadae* (Sinclair and Bolton), 1965

- 1-3. GSC 14680-1, holotype.
  1. Inner side of oral surface,  $\times 10$ , whitened (text fig. 34).
  2. Oral frame, ambulacra II-IV, and adjacent areas,  $\times 15$ , whitened.
  3. Inner side of oral surface,  $\times 9$ , in xylene.
4. GSC 14680 (1-7) as preserved on filling of siphuncular sheath of an endoceroid endocone (cephalopod),  $\times 1$ , whitened.
5. GSC 14680-2, paratype, inner side of oral surface,  $\times 8$ , whitened.
6. GSC 14680-3, paratype, inner side of oral surface,  $\times 6$ , whitened.
7. GSC 14680-4, paratype, inner side of oral surface,  $\times 9$ , whitened.
8. GSC 14680-5, paratype, inner side of oral surface,  $\times 7$ , whitened.
9. GSC 14680-6, paratype, inner side of oral surface,  $\times 8$ , whitened.
10. GSC 14680-7, paratype, inner side of oral surface,  $\times 8$ , whitened.



## PLATE 37

*Hemicystites parasiticus* Hall, 1852

1. Unretouched copy of Bassler's (1936, pl. 4, fig. 5) photograph of the holotype, oral surface,  $\times 6$ , apparently whitened.
2. USNM S-3183-A, oral surface,  $\times 7$ , whitened (text fig. 35B).
3. USNM S-3183-B, oral surface,  $\times 9$ , whitened (text fig. 35A).
4. USNM S-3183-C, oral surface,  $\times 8$ , whitened.
5. USNM S-3183-E, oral surface,  $\times 8$ , whitened.
6. USNM S-3183-F, oral surface,  $\times 10$ , whitened.
7. USNM S-3183-D-2, inner side of oral surface,  $\times 10$ , whitened.
8. USNM S-3183-D-1, inner side of oral surface,  $\times 6$ , whitened.
9. USNM S-3183-D-3, inner side of oral surface,  $\times 6$ , whitened.
- 10-11. UCMP 37217.
  10. Oral surface,  $\times 8$ , whitened.
  11. Oral-ambulacral region,  $\times 12$ , whitened.



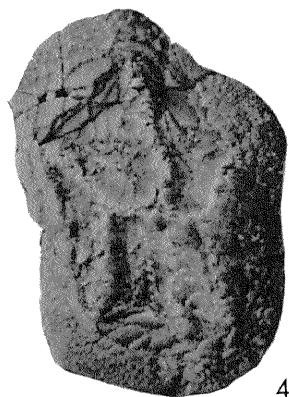
1



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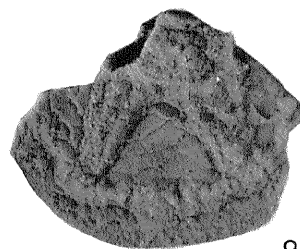
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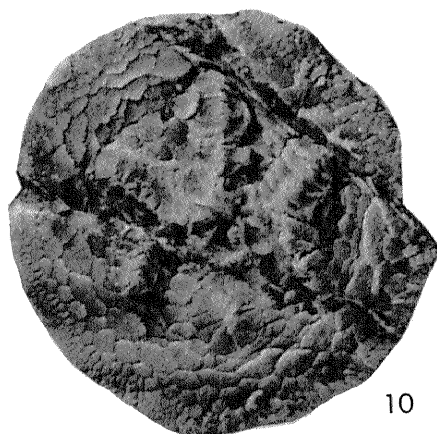
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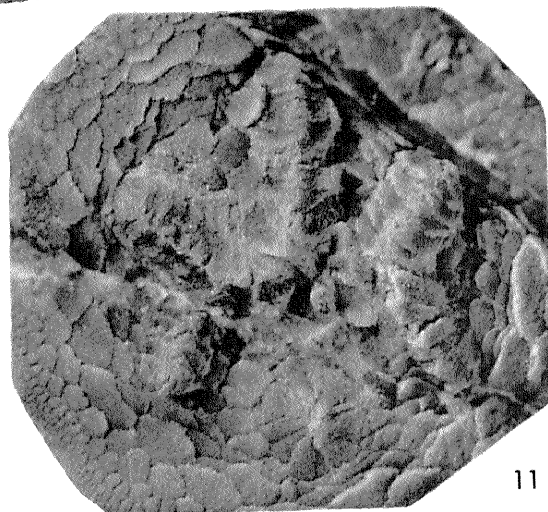
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9



10



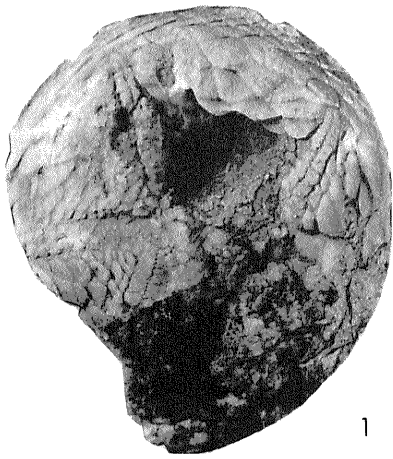
11

## PLATE 38

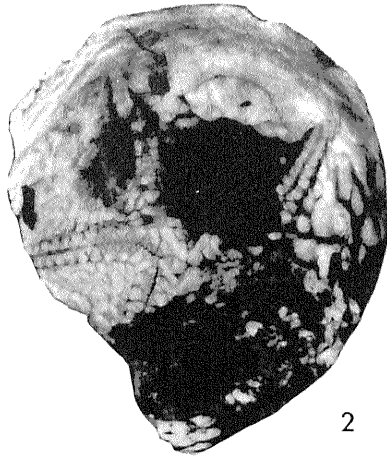
*Rectitriordo kirkfieldensis* Bell, *gen. et sp. nov.*

- 1-6. UCMP 40476, holotype.
  1. Oral surface,  $\times 2$ , whitened.
  2. Oral surface,  $\times 2$ , in xylene (text fig. 36A).
  3. Oblique view of right anterior section of peripheral rim,  $\times 4$ , whitened (text fig. 37A).
  4. Oral region, anterior toward upper right corner of photograph,  $\times 7$ , in xylene (text fig. 36B).
  5. Ambulacrum II and adjacent areas,  $\times 8$ , in xylene.
  6. Distal part of ambulacrum IV,  $\times 9$ , in xylene.
- 7-8. USNM S-3894-D, paratype.
  7. Oral surface,  $\times 5$ , whitened.
  8. Oral surface,  $\times 5$ , in xylene.
- 9-10. USNM S-3889-G, paratype.
  9. Oral surface,  $\times 5$ , whitened.
  10. Oral surface,  $\times 5$ , in xylene (text fig. 37B).

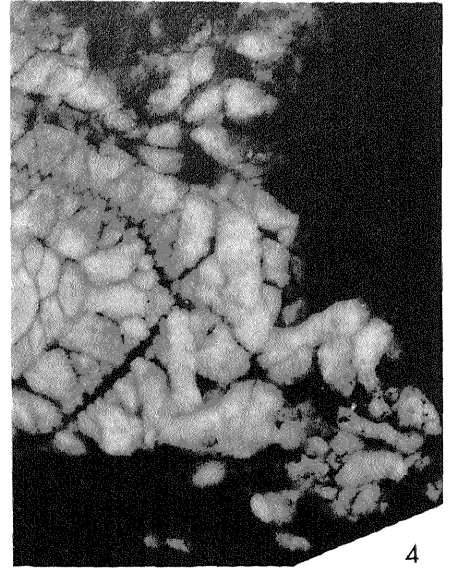




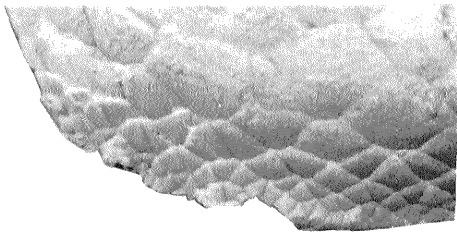
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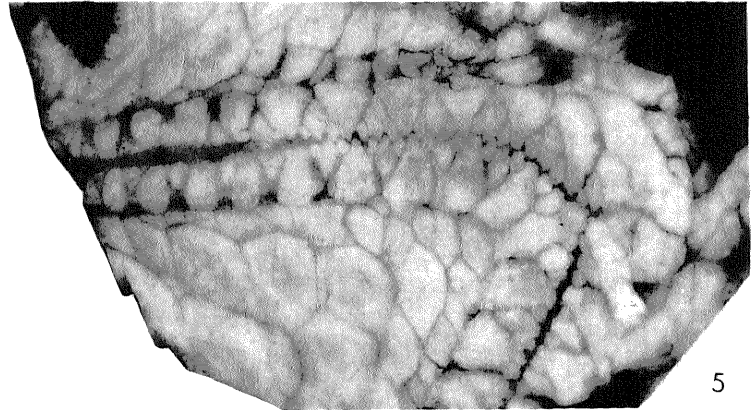
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4



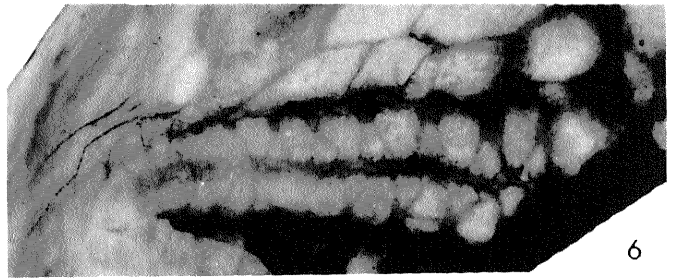
3



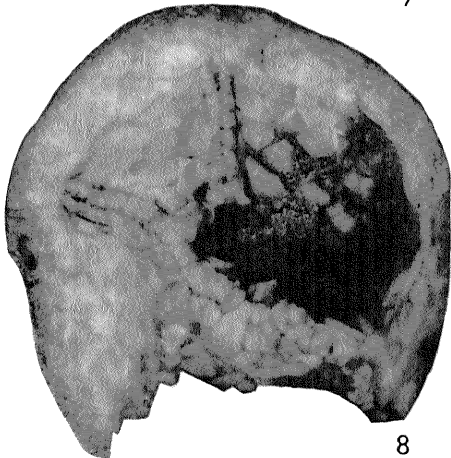
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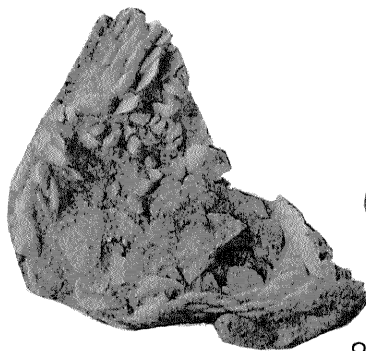
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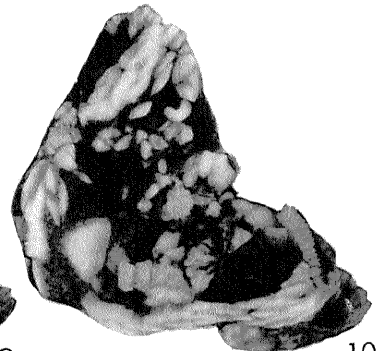
6



8



9



10

## PLATE 39

*Curvitoriordo kentuckyensis* (Bassler), 1936. Fig. 1-7.

1-5. USNM S-3967-A, holotype.

1. Oral surface,  $\times 2$ , whitened.
2. Oral surface,  $\times 2$ , in xylene.
3. Oral region, anterior somewhat left of center of photograph,  $\times 6$ , in xylene (text fig. 38).
4. Oral region, anterior slightly left of center of photograph,  $\times 6$ , whitened.
5. Oblique view of left posterior part of peripheral rim,  $\times 6$ , whitened.

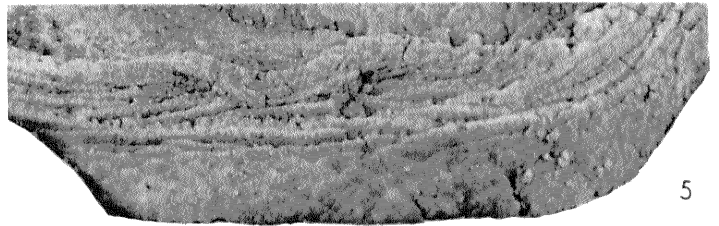
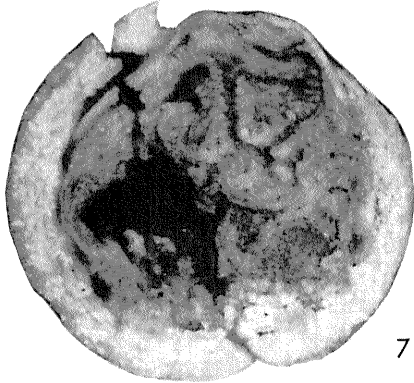
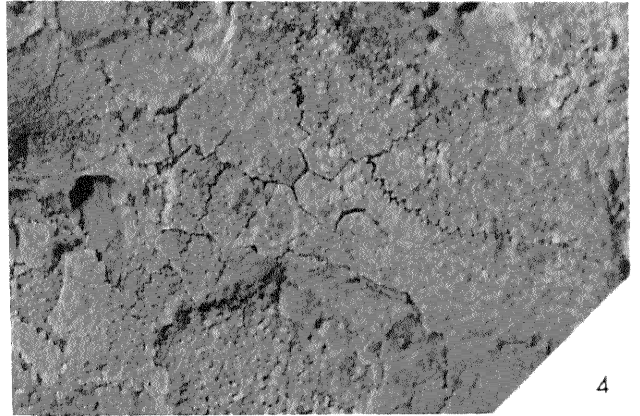
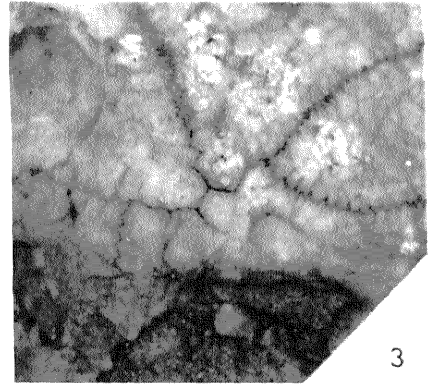
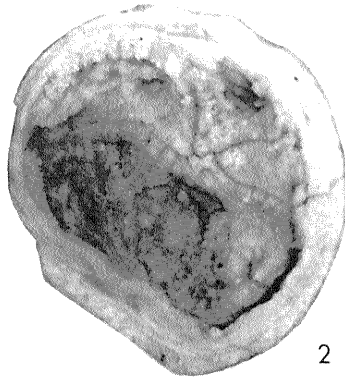
6-7. USNM S-3967-B, paratype.

6. Oral surface,  $\times 2$ , whitened.
7. Oral surface,  $\times 2$ , in xylene.

*Curvitoriordo shideleri* (Bassler), 1936. Fig. 8-9.

8-9. USNM S-3958, holotype.

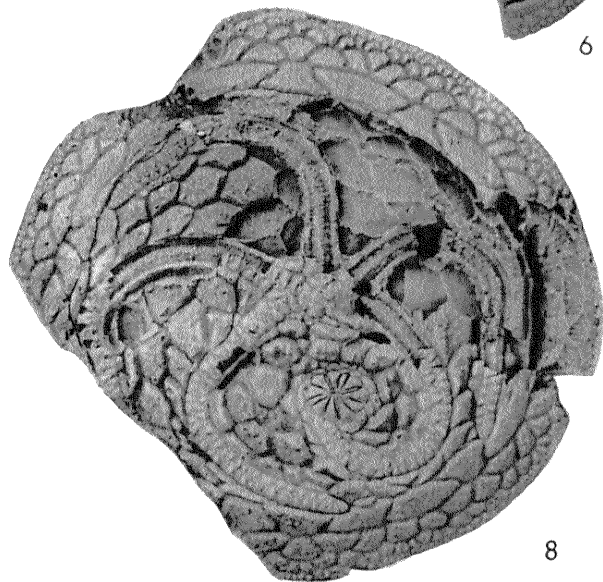
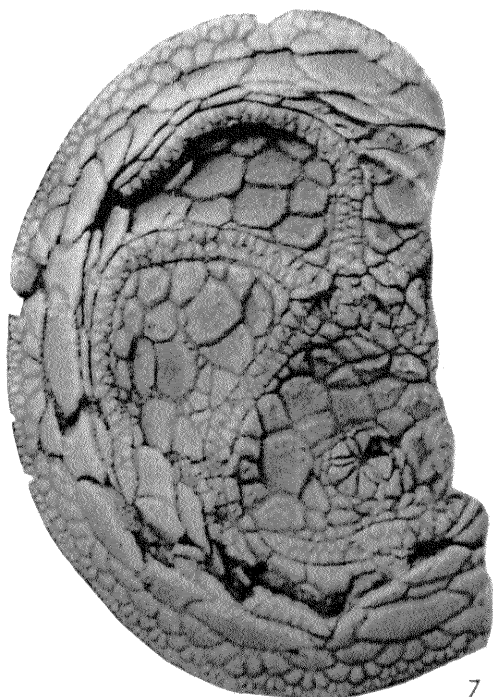
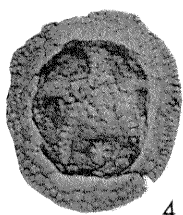
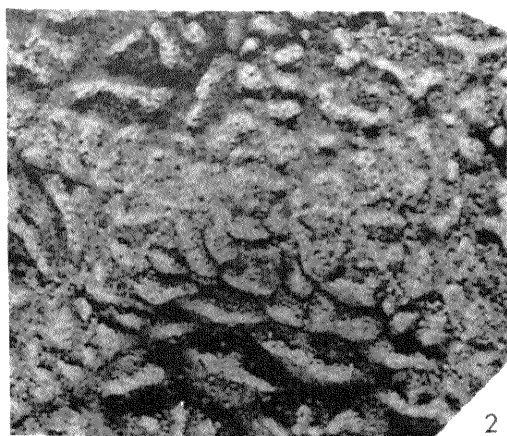
8. Oral surface,  $\times 4$ , whitened.
9. Oral surface,  $\times 5$ , in xylene (text fig. 39).



## PLATE 40

*Agelacrinites hamiltonensis* Vanuxem, 1842

- 1-2. NYSM 362-A, lectotype.
  1. Oral surface,  $\times 3$ , whitened latex pull (text fig. 1D, 40A).
  2. Oral region,  $\times 8$ , whitened latex pull (text fig. 40B).
3. NYSM 362-E, juvenile, lectoparatype (4), oral surface,  $\times 5$ , whitened latex pull (text fig. 41A).
4. NYSM 362-D, juvenile, lectoparatype (3), oral surface,  $\times 5$ , whitened latex pull (text fig. 41C).
5. NYSM 362-C, lectoparatype (2), oral surface,  $\times 4$ , whitened latex pull (text fig. 41B).
6. NYSM 362-B, lectoparatype (1), oral surface,  $\times 2$ , whitened latex pull (text fig. 41E).
7. USNM 85190-A, oral surface,  $\times 3$ , whitened latex pull (text fig. 41D).
- 8-9. USNM 85190-B, specimen retains some anterior plates whereas other plates are gone; this gives viewer a partial composite of both inner and exterior sides of oral surface.
  8. Composite view of oral surface,  $\times 3$ , whitened latex pull.
  9. Composite view of oral surface,  $\times 3$ , whitened gutta-percha squeeze.



## PLATE 41

*Agelacrinites hamiltonensis* Vanuxem, 1842. Fig. 1-5.

## 1-2. USNM 85190-I.

1. Inner side of oral surface,  $\times 4$ , whitened latex pull.
2. Oral frame and adjacent structures,  $\times 10$ , whitened latex pull.

## 3-4. USNM 85190-G-1.

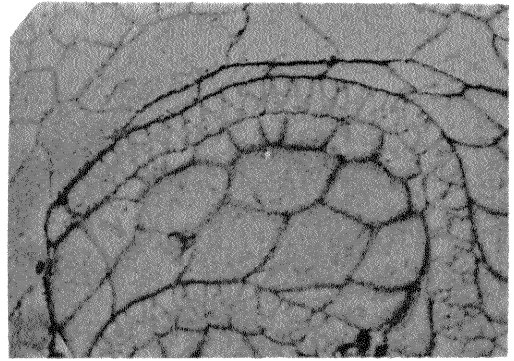
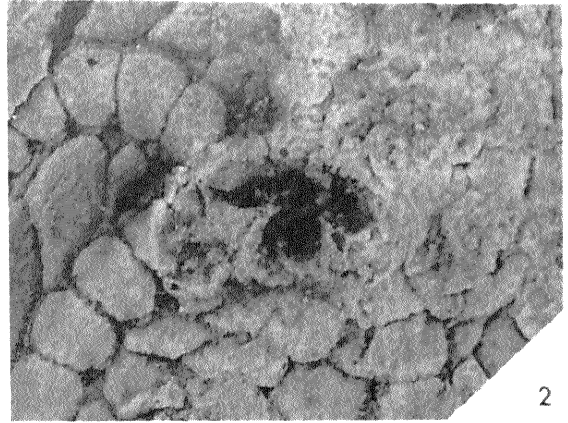
3. Oral surface,  $\times 3$ , whitened latex pull.
  4. Ambulacrum III and adjacent area,  $\times 5$ , whitened latex pull.
5. USNM 85190-J, inner side of oral surface,  $\times 3$ , whitened latex pull.

*Krama devonicum* (Bassler), 1936. Fig. 6-8.6. UMMP 17295, holotype, oral surface,  $\times 12$ , whitened (text fig. 44D).

## 7-8. UMMP 35390, juvenile.

7. Oral surface,  $\times 20$ , whitened (text fig. 44A).
8. Oral surface,  $\times 20$ , in xylene.

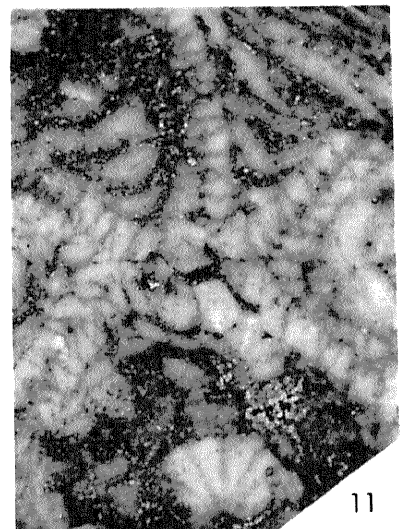
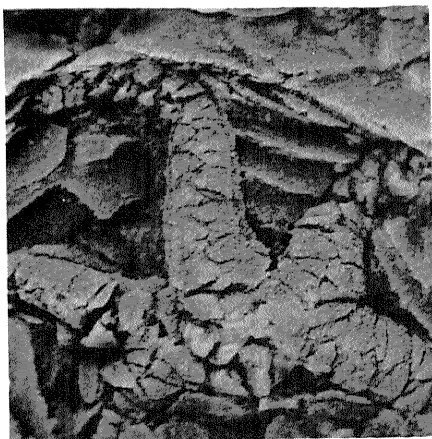
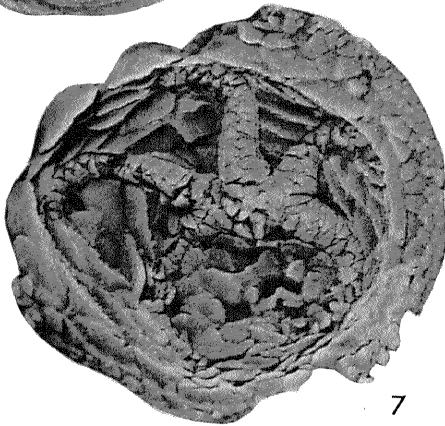
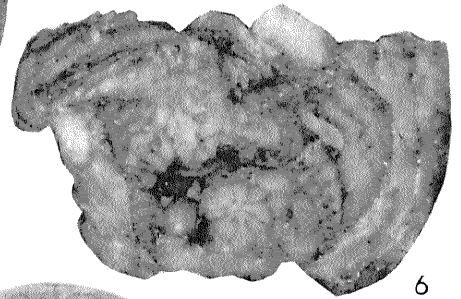
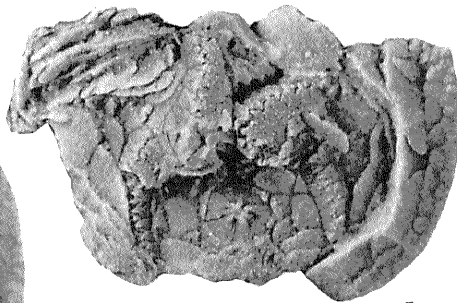
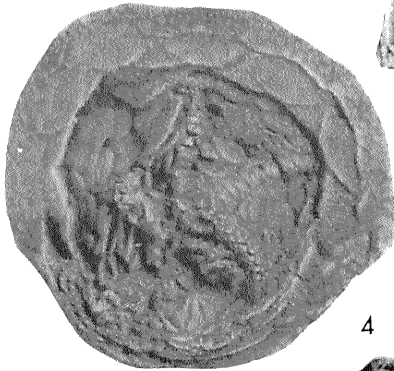
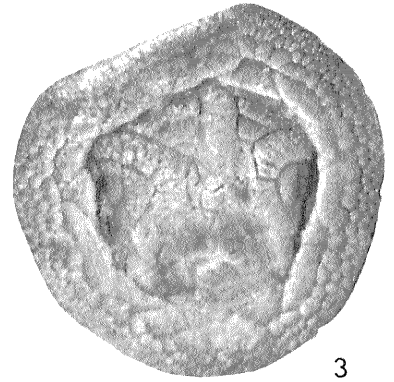
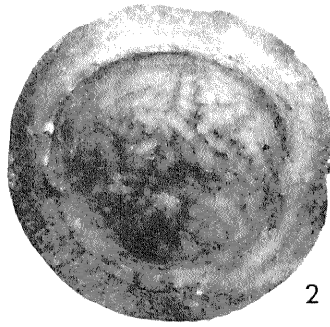
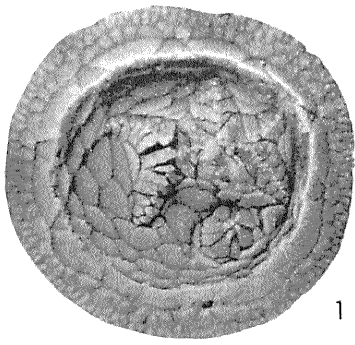




## PLATE 42

*Krama devonicum* (Bassler), 1936

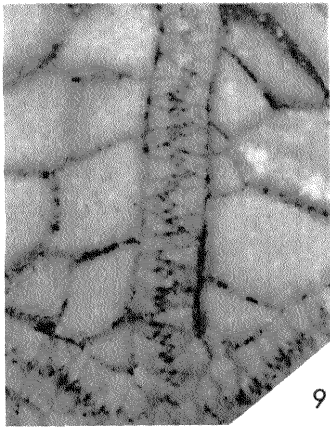
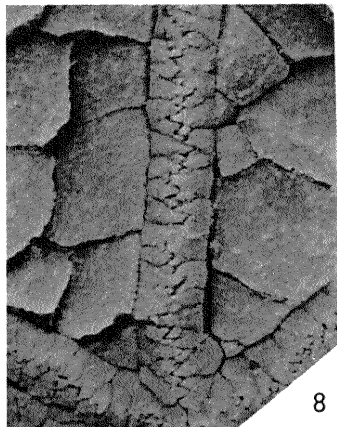
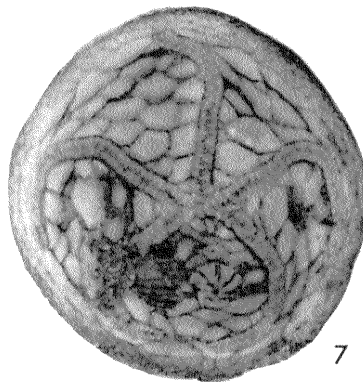
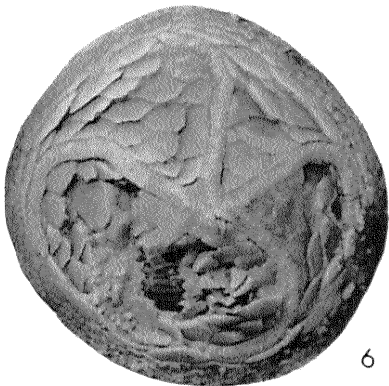
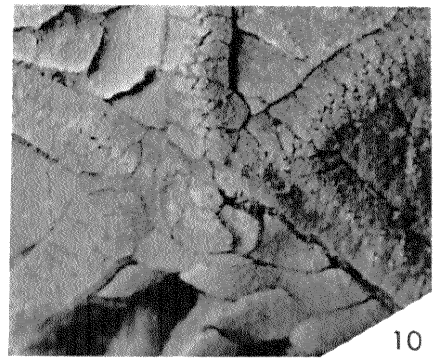
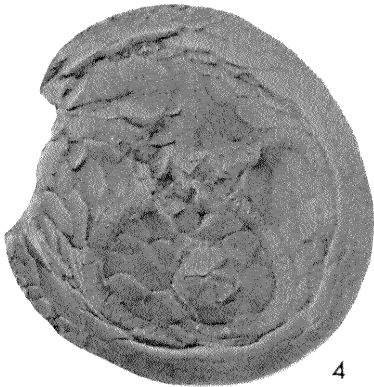
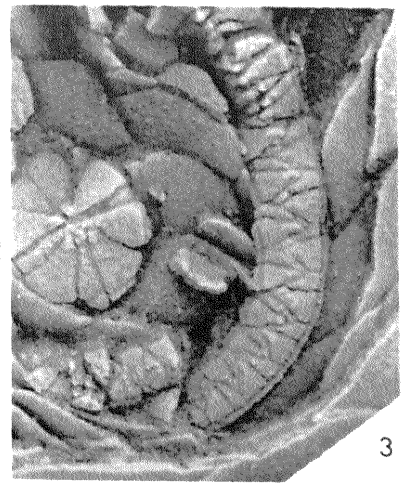
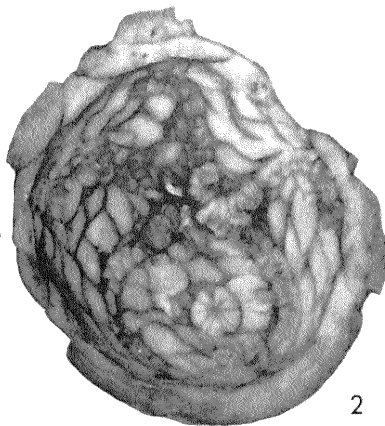
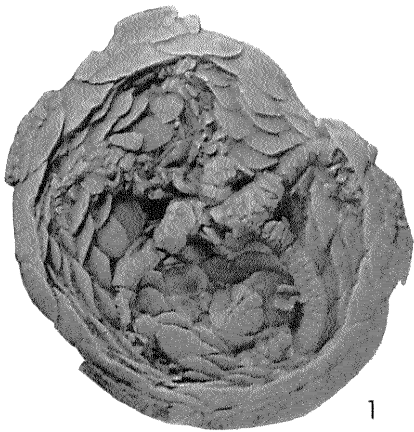
- 1-2. UMMP 21123, juvenile.
  1. Oral surface,  $\times 10$ , whitened (text fig. 44B).
  2. Oral surface,  $\times 10$ , in xylene.
3. USNM 94643, juvenile, oral surface,  $\times 10$ , whitened.
4. UMMP 57678, young adult,  $\times 8$ , whitened.
- 5-6. UCMP 36118, young adult.
  5. Oral surface,  $\times 10$ , whitened.
  6. Oral surface,  $\times 10$ , in xylene.
- 7-8. UMMP 21203.
  7. Oral surface,  $\times 8$ , whitened (text fig. 45A).
  8. Oral region and ambulacrum III,  $\times 16$ , whitened.
- 9-11. UMMP 57679.
  9. Oral surface,  $\times 7$ , whitened (text fig. 45B).
  10. Oral area,  $\times 14$ , whitened.
  11. Oral area,  $\times 14$ , in xylene.



## PLATE 43

*Krama devonicum* (Bassler), 1936

- 1-3. UMMP 4796.
  1. Oral surface,  $\times 4$ , whitened (text fig. 45D).
  2. Oral surface,  $\times 4$ , in xylene.
  3. Ambulacrum V,  $\times 12$ , whitened (text fig. 45C).
- 4-5. UMMP 5677-A.
  4. Oral surface,  $\times 4$ , whitened.
  5. Oral surface,  $\times 4$ , in xylene (text fig. 45E).
- 6-11. USNM S-3478 (holotype of *Agelacrinites southworthi* Bassler, 1936).
  6. Oral surface,  $\times 3$ , whitened.
  7. Oral surface,  $\times 3$ , in xylene.
  8. Proximal part of ambulacrum III,  $\times 10$ , whitened.
  9. Proximal part of ambulacrum III,  $\times 10$ , in xylene (text fig. 44C).
  10. Oral region,  $\times 10$ , whitened.
  11. Oral region,  $\times 10$ , in xylene (text fig. 42).

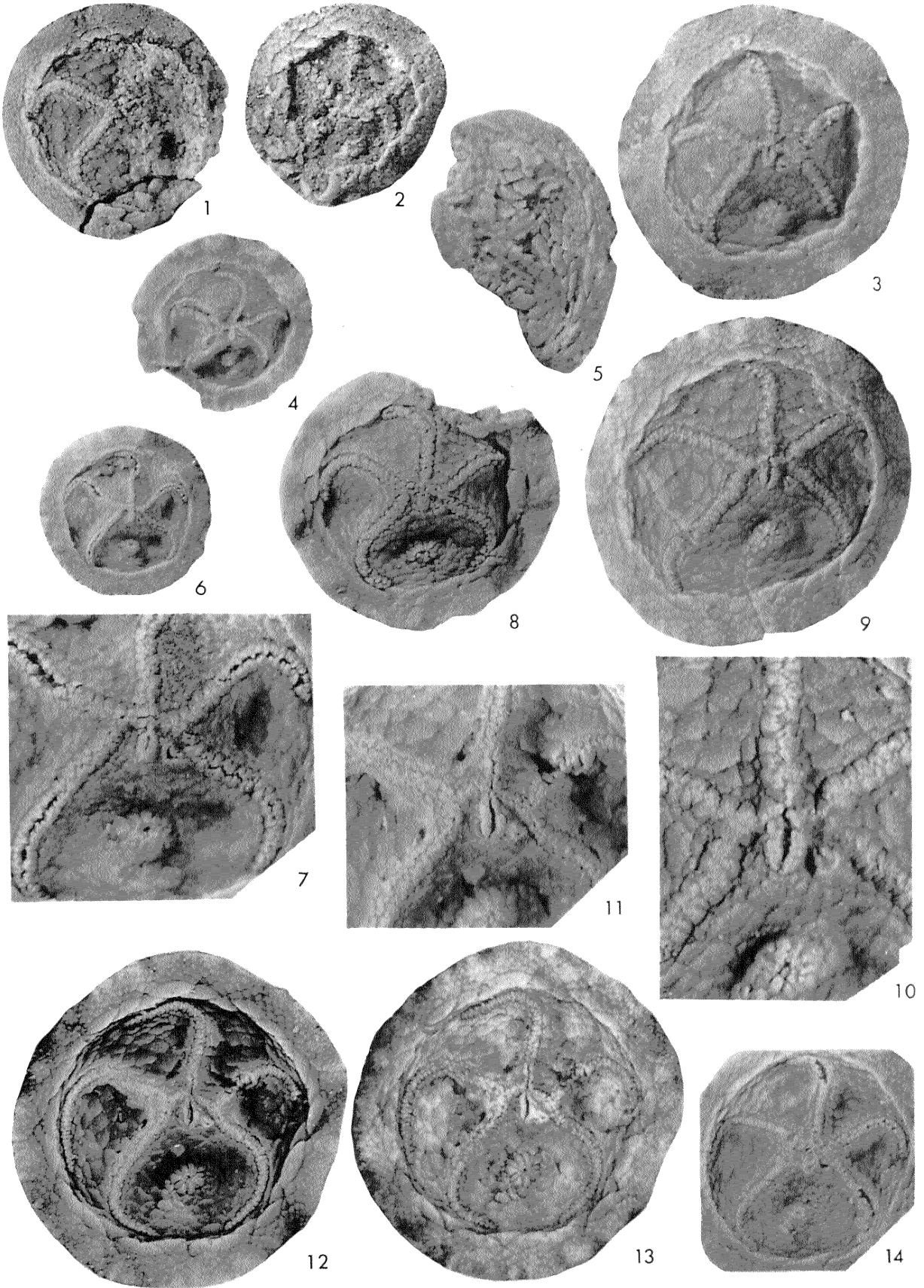


## PLATE 44

*Postibulla legrandensis* (Miller and Gurley), 1894

1. CFMUC 6495-A, lectotype, oral surface,  $\times 6$ , whitened.
2. CFMUC 6495-B, juvenile, lectoparatype, oral surface,  $\times 10$ , whitened (text fig. 46A).
3. USNM S-3881-B-2, oral surface,  $\times 10$ , whitened.
4. USNM S-3881-A-2, oral surface,  $\times 4$ , whitened.
5. USNM S-3881-E, oral surface with ambulacral coverplates eroded away,  $\times 6$ , whitened.
- 6-7. USNM S-3881-B-1.
  6. Oral surface,  $\times 4$ , whitened.
  7. Oral region,  $\times 12$ , whitened.
8. USNM S-3881-C-1, oral surface,  $\times 7$ , whitened.
- 9-10. GSC 25143.
  9. Oral surface,  $\times 10$ , whitened (text fig. 46B).
  10. Oral region,  $\times 20$ , whitened.
- 11-13. NYSM 12777.
  11. Oral region,  $\times 10$ , whitened.
  12. Oral surface,  $\times 6$ , whitened.
  13. Oral surface,  $\times 6$ , in xylene.
14. USNM S-3881-A-1, oral-ambulacral region,  $\times 6$ , whitened.





## PLATE 45

*Postibulla keslingi* Bell, *sp. nov.* Fig. 1-10.

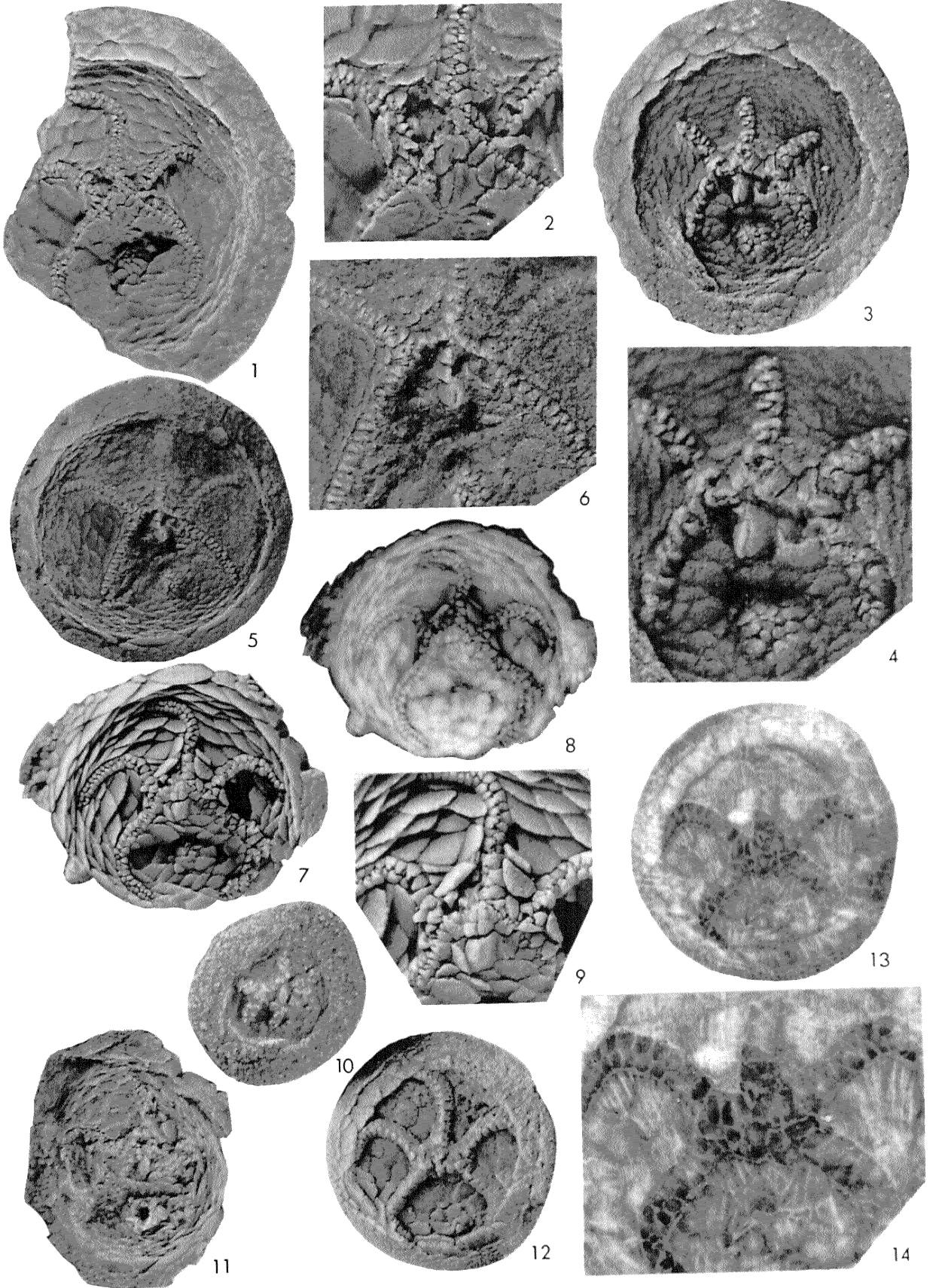
- 1-2. UMMP 35387, holotype.
  1. Oral surface, × 6, whitened (text fig. 47B).
  2. Oral region, × 12, whitened.
- 3-4. UMMP 35379, young adult, paratype (3).
  3. Oral surface, × 12, whitened (text fig. 47A).
  4. Oral-ambulacral region, × 24, whitened.
- 5-6. UMMP 35377, paratype (2).
  5. Oral surface, × 6, whitened.
  6. Oral region, × 12, whitened.
- 7-9. USNM 111225, paratype (1).
  7. Oral surface, × 6, whitened (text fig. 47C).
  8. Oral surface, × 6, in xylene.
  9. Oral region, × 12, whitened.
10. UMMP 35389, juvenile, oral surface, × 12, whitened.

*?Postibulla alpenensis* (Bassler), 1936. Fig. 11.

11. UMMP 17296, holotype, oral surface, × 6, whitened.

*?Postibulla jasperensis* (Harker), 1953. Fig. 12-14.

- 12-14. GSC 10051, holotype.
  12. Oral surface, × 6, whitened.
  13. Oral surface, × 7, in xylene (text fig. 48).
  14. Oral region, × 12, in xylene.



## PLATE 46

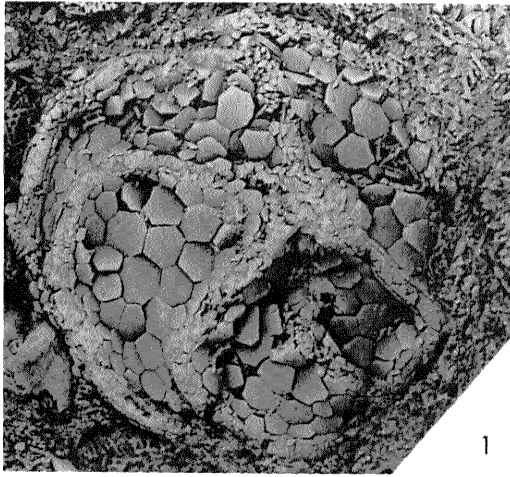
*Discocystis kaskaskiensis* (Hall), 1858

## 1-7. ISM 10037, holotype.

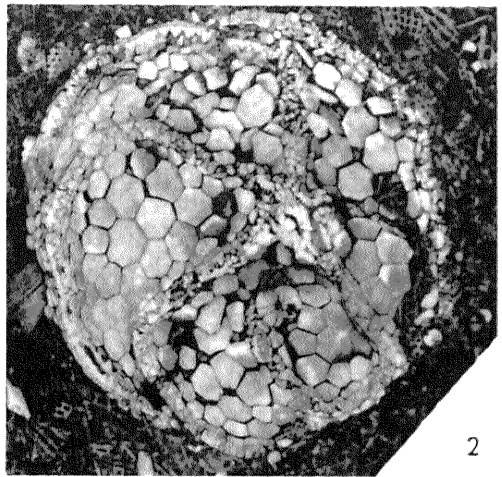
1. Oral surface,  $\times 2$ , whitened.
2. Oral surface,  $\times 2$ , in xylene.
3. Oral region,  $\times 8$ , in xylene (text fig. 49A).
4. Distal segment of ambulacrum III,  $\times 10$ , in xylene (text fig. 50B).
5. Proximal segment of ambulacrum V,  $\times 10$ , whitened.
6. Proximal segment of ambulacrum V,  $\times 10$ , in xylene (text fig. 50C).
7. Anal area,  $\times 8$ , in xylene (text fig. 49B).

## 8-9. USNM S-3883.

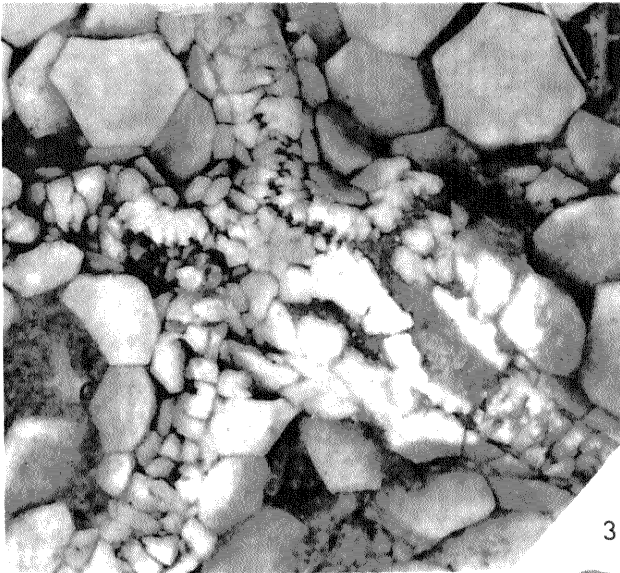
8. Inner side of oral surface,  $\times 2$ , whitened.
9. Inner side of oral surface,  $\times 2$ , in xylene.



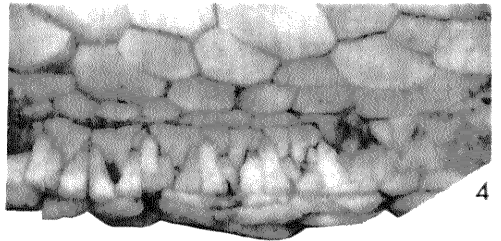
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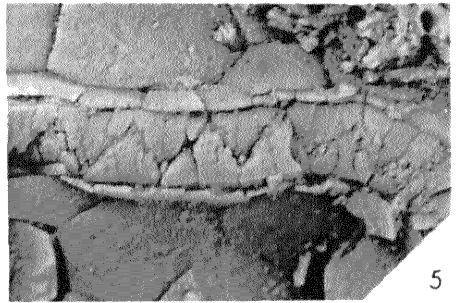
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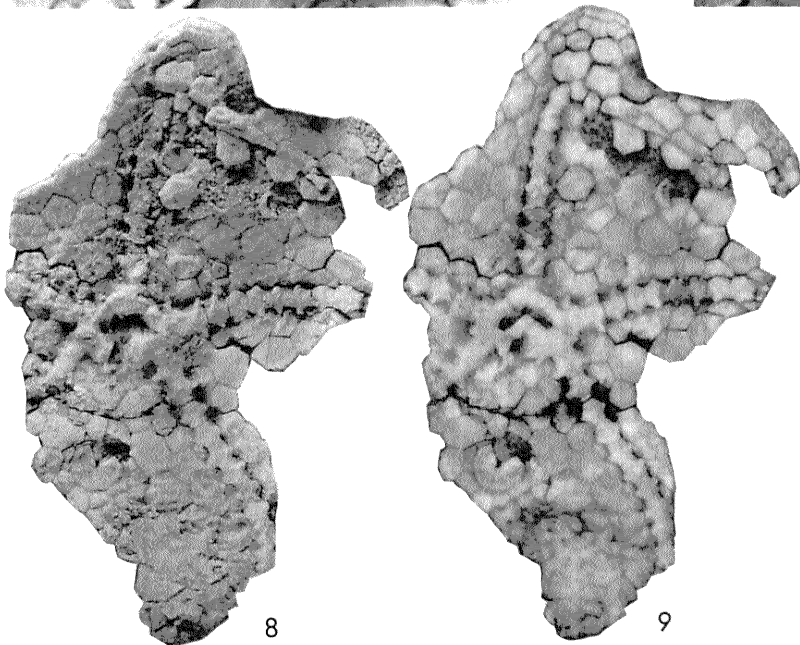
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4

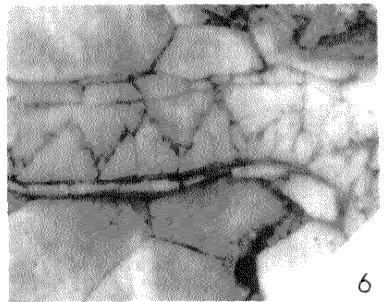


5

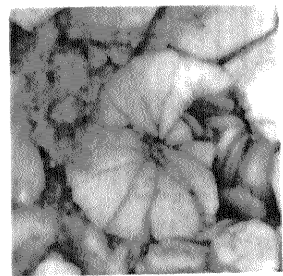


8

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6



7

## PLATE 47

*Discocystis kaskaskiensis* (Hall), 1858. Fig 1-8.

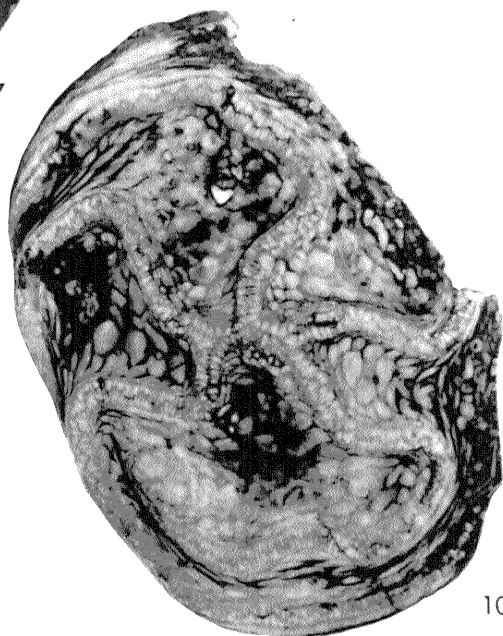
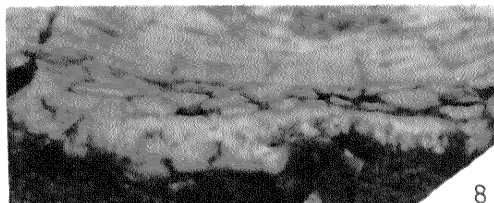
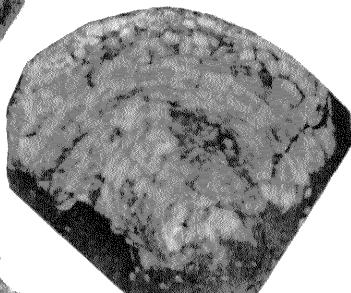
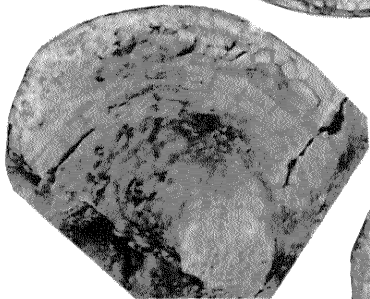
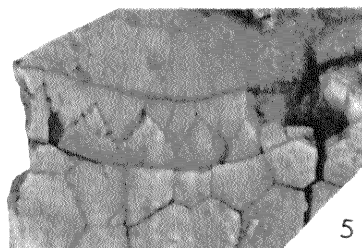
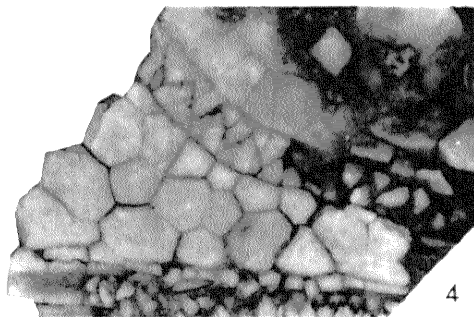
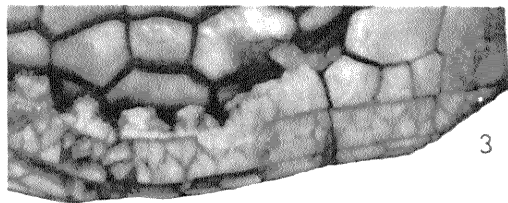
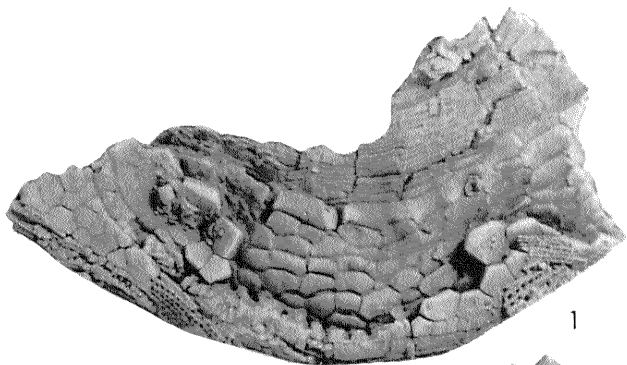
- 1-5. USNM S-3885, a fragmentary specimen which exposes the exterior of the upper oral surface of a narrow marginal zone that includes parts of two ambulacra and adjacent interambulacrals, and the inner side of plates of part of the subambital transition zone and the pedunculate zone.
  1. Entire specimen,  $\times 2$ , whitened.
  2. Entire specimen,  $\times 2$ , in xylene.
  3. Part of the longer ambulacral segment,  $\times 5$ , in xylene (text fig. 50A). Note the four lateral nodes of the underlying floorplates which are exposed along the upper edge of the left end of the ambulacrum where the interambulacral plates are missing.
  4. Left end of the longer ambulacral segment and part of the shorter one with interambulacrals between them,  $\times 5$ , in xylene.
  5. Left end of the longer ambulacral segment and adjacent interambulacrals,  $\times 7$ , whitened.
- 6-8. ISGS 2478 (holotype of *Echinodiscus optatus* Worthen and Miller, 1883).
  6. Exterior of part of lower side of oral surface,  $\times 2$ , whitened.
  7. Exterior of part of lower side of oral surface,  $\times 2$ , in xylene.
  8. Oblique view of ambital part of specimen, which includes a short segment of an ambulacrum,  $\times 6$ , in xylene.

*Lepidodiscus squamosus* Meek and Worthen, 1868.

## Fig. 9-10.

- 9-10. UMMP 5420, holotype.
  9. Oral surface,  $\times 2$ , whitened.
  10. Oral surface,  $\times 2$ , in xylene.

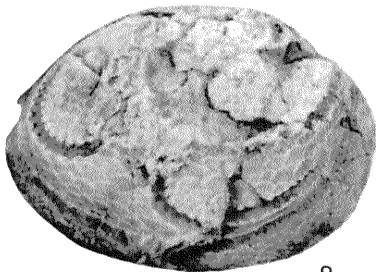
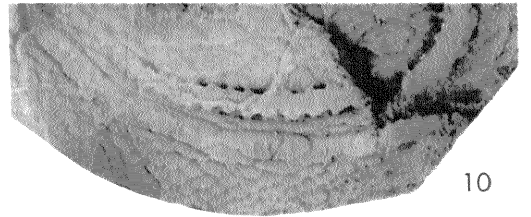
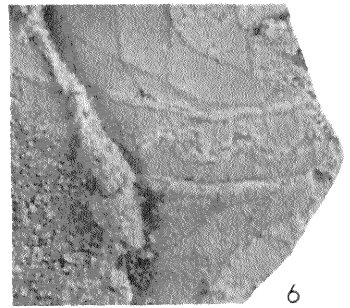
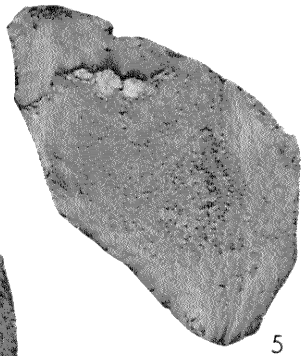
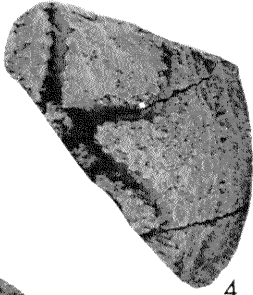
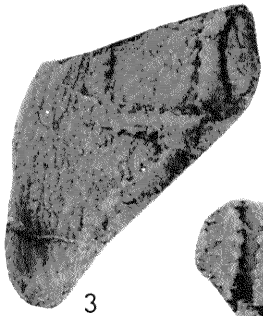
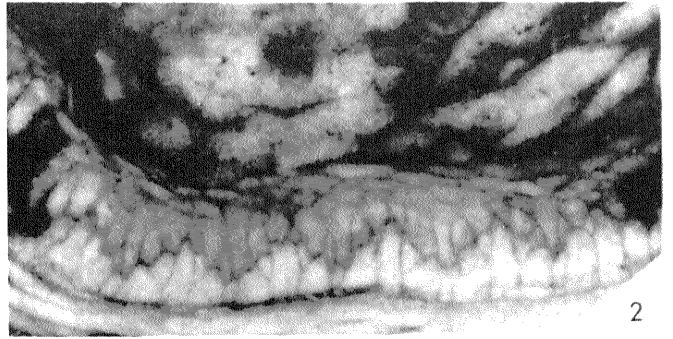




## PLATE 48

*Lepidodiscus squamosus* Meek and Worthen, 1868

- 1-2. UMMP 5420, holotype.
  1. Oral region,  $\times 5$ , in xylene (text fig. 51B).
  2. Medial segment of ambulacrum III, proximal end at left,  $\times 10$ , in xylene.
- 3-4. YPM 24804-A (cotype of *Agelacrinites beecheri* Clarke, 1901).
  3. Inner side of oral surface,  $\times 5$ , whitened latex pull.
  4. Inner side of oral surface,  $\times 2.5$ , whitened natural mold.
- 5-6. YPM 24804-B (cotype of *Agelacrinites beecheri* Clarke, 1901).
  5. Oral surface,  $\times 3$ , whitened latex pull.
  6. Medial part of ambulacrum III, proximal end at left,  $\times 10$ , whitened latex pull (text fig. 51A).
- 7-11. YPM 24803-A (cotype of *Agelacrinites beecheri* Clarke, 1901).
  7. Inner side of oral surface,  $\times 2$ , whitened natural mold.
  8. Oblique lateral view of inner side of oral surface, ambulacrum IV toward viewer,  $\times 2$ , whitened natural mold.
  9. Inner side of oral surface,  $\times 2$ , whitened latex pull.
  10. Inner side of right anterior part of peripheral rim and distal part of ambulacrum IV, proximal end at right,  $\times 4$ , whitened latex pull. Note ridges on basal surfaces of rim plates.
  11. Imbricate floorplates with lateral nodes, distal part of ambulacrum V, proximal end at left,  $\times 10$ , whitened latex pull.
- 12-13. YPM 24803-B (cotype of *Agelacrinites beecheri* Clarke, 1901).
  12. Oral surface,  $\times 3$ , whitened latex pull.
  13. Distal part of ambulacrum IV, proximal end at left,  $\times 10$ , whitened latex pull.



## PLATE 49

*Lepidodiscus laudoni* (Bassler), 1936

- 1-4. USNM S-3886-B, lectotype.
  1. Oral surface,  $\times 2$ , whitened.
  2. Inner side of oral surface,  $\times 2$ , whitened.
  3. Exterior of proximal part of ambulacrum II, proximal end at right,  $\times 5$ , whitened.
  4. Exterior of medial part of ambulacrum I, proximal end at right,  $\times 5$ , whitened.
- 5-6. USNM S-3886-A, lectoparatype.
  5. Oral surface,  $\times 2$ , whitened.
  6. Oral region,  $\times 7$ , whitened.
- 7-12. USNM S-3884, fragmentary specimen giving composite view, with the left side and central area exposing inner side of upper oral surface, the right side showing exterior side of plates of pedunculate zone; small anterior piece that includes a short segment of ambulacrum IV shows exterior side of upper oral surface.
  7. Entire specimen,  $\times 2$ , whitened.
  8. Entire specimen,  $\times 2$ , in xylene.
  9. Oblique view of distal, isolated segment of ambulacrum IV, proximal end at right,  $\times 10$ , whitened.
  10. Oblique view of distal, isolated segment of ambulacrum IV, proximal end at right,  $\times 10$ , in xylene.
  11. Floorplates of proximal end of ambulacrum V, proximal end at right,  $\times 8$ , whitened.
  12. Floorplates of proximal end of ambulacrum IV, proximal end at right,  $\times 6$ , in xylene.