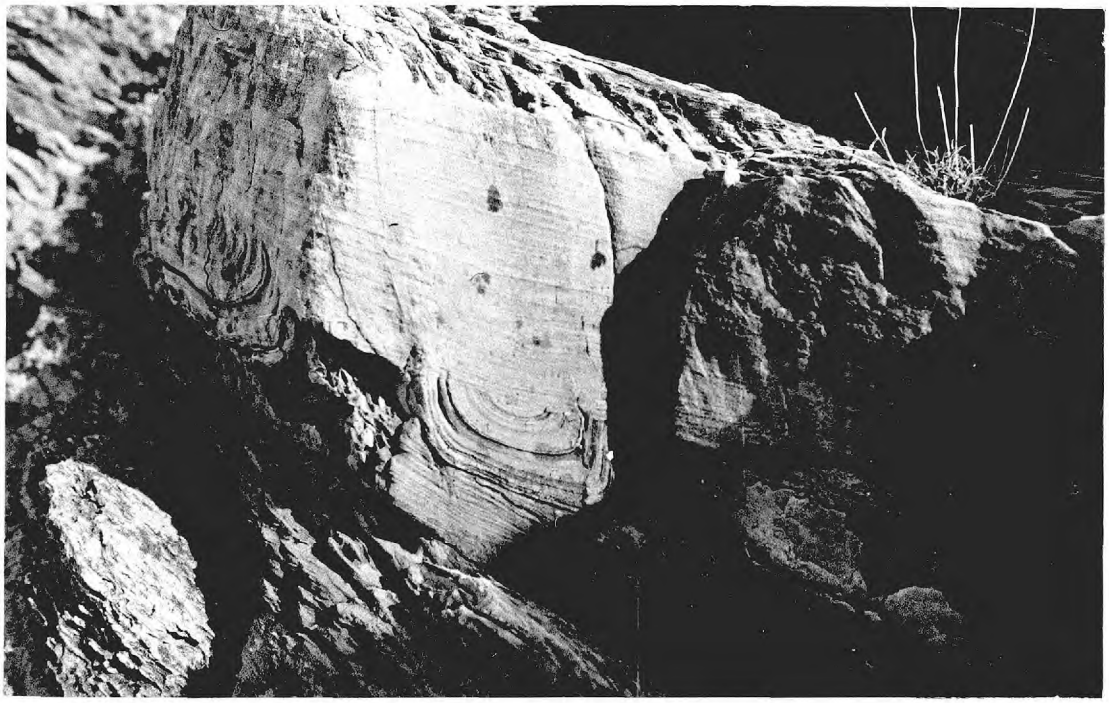
PLATE 1

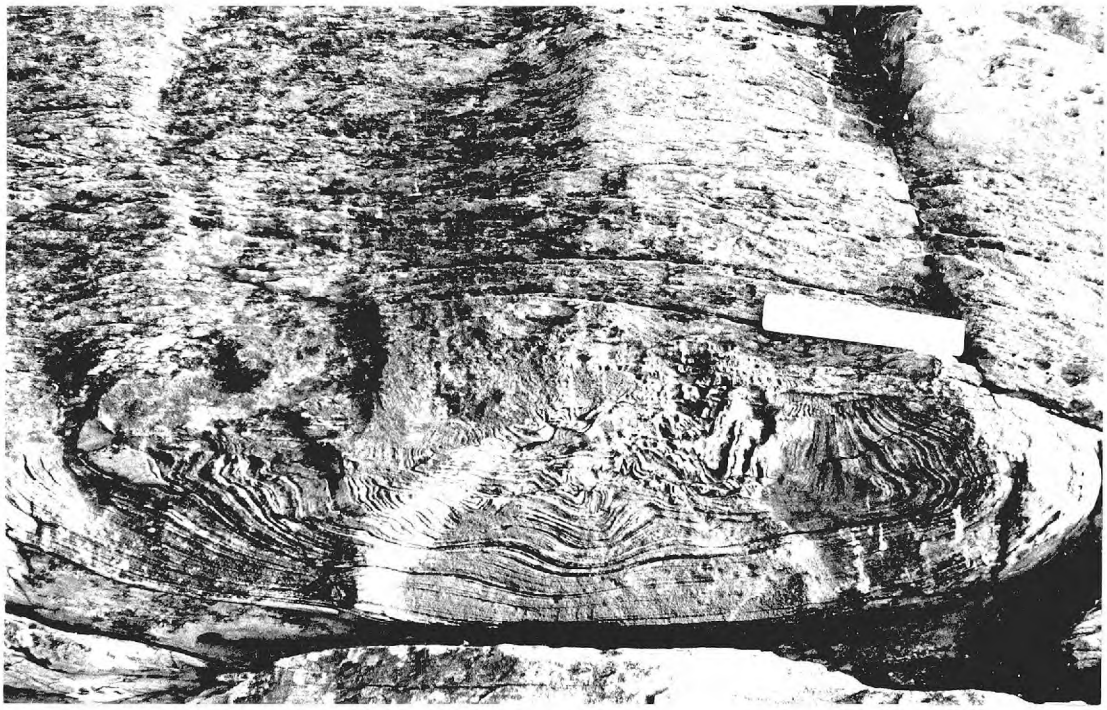
Figs. 1-2 Quick-sand structures seen in the Widmouth Head area

1. Shows two structures occurring at slightly different levels in the massive sandstone sequence
2. A close up of one of the structures - a six-inch ruler indicates the scale.

PLATE 1



1.



2.

PLATE 2

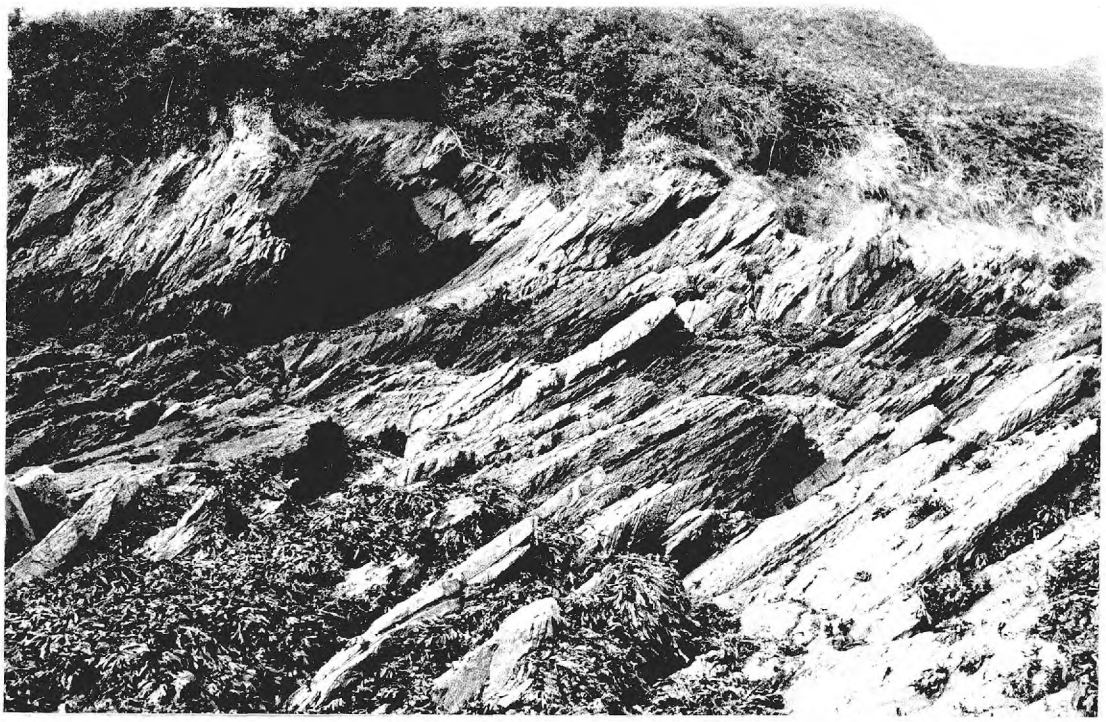
Fig. 1 General view across Watermouth towards Widmouth Head. The feature caused by the Samson's Cove fault is indicated with a broken line.

Fig. 2 Close-up view of the slates and sandstones which occur immediately below the Rillage Limestone in the Widmouth area.

PLATE 2



1.



2.

PLATE 3

A series of photomicrographs of thin sections cut from the Rillage Limestone; in each of them is seen the concentric algal growths which characterize this limestone. All the photographs are x 4.

a. 'Curtain Rock', Rillage - type locality.

b. Hagginton Beach (Orthoceras Cove).

c. S.E. corner of Watermouth Harbour.

d. N. side of Smallmouth.

e. Immediately S. of Smallmouth.

f. The cove between Smallmouth and 'Desolation Cove'.

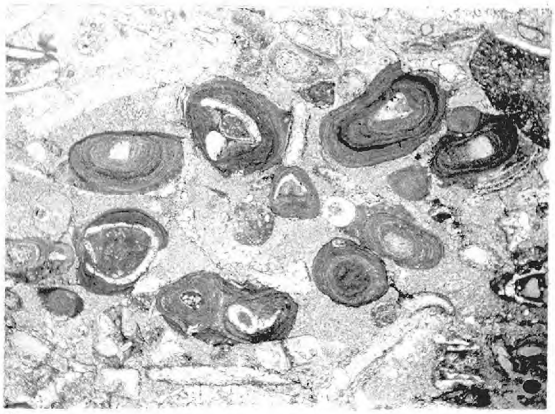
g. 'Desolation Cove'.

h. Foot of the steps leading to Broadstrand Beach (Hamator).

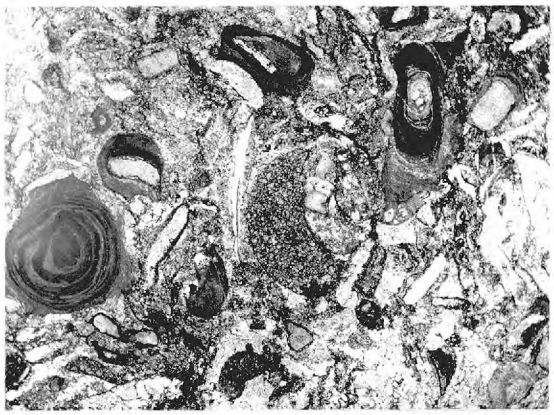
PLATE 3



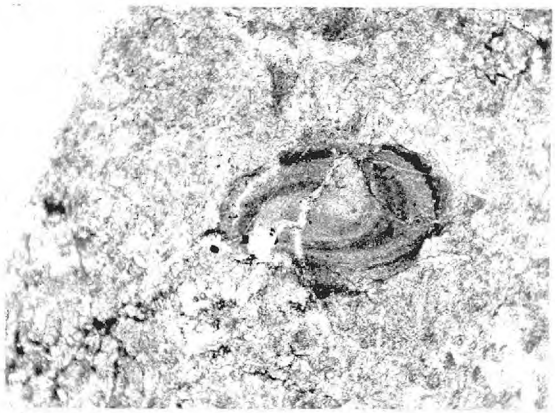
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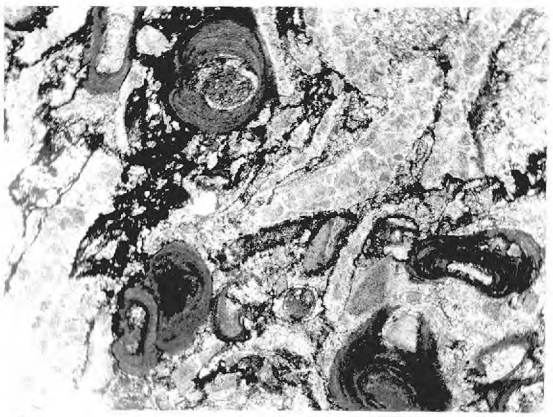
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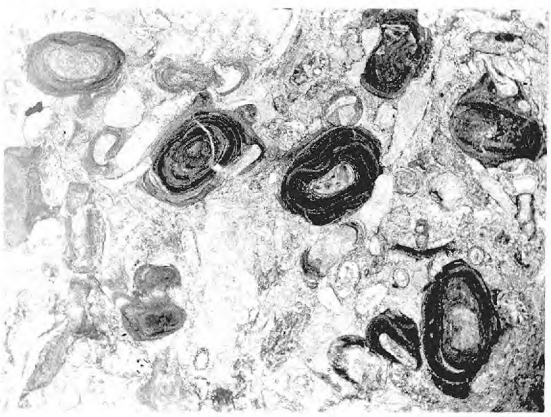
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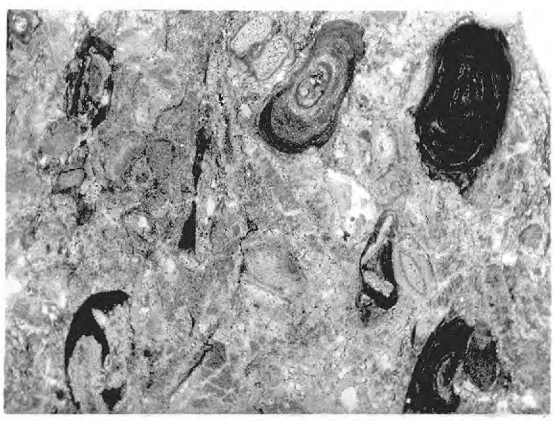
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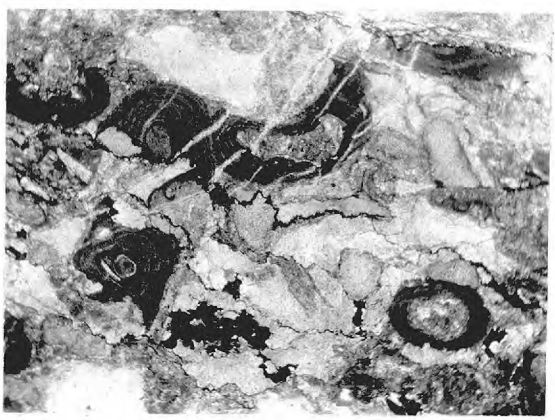
e



f



g



h

PLATE 4

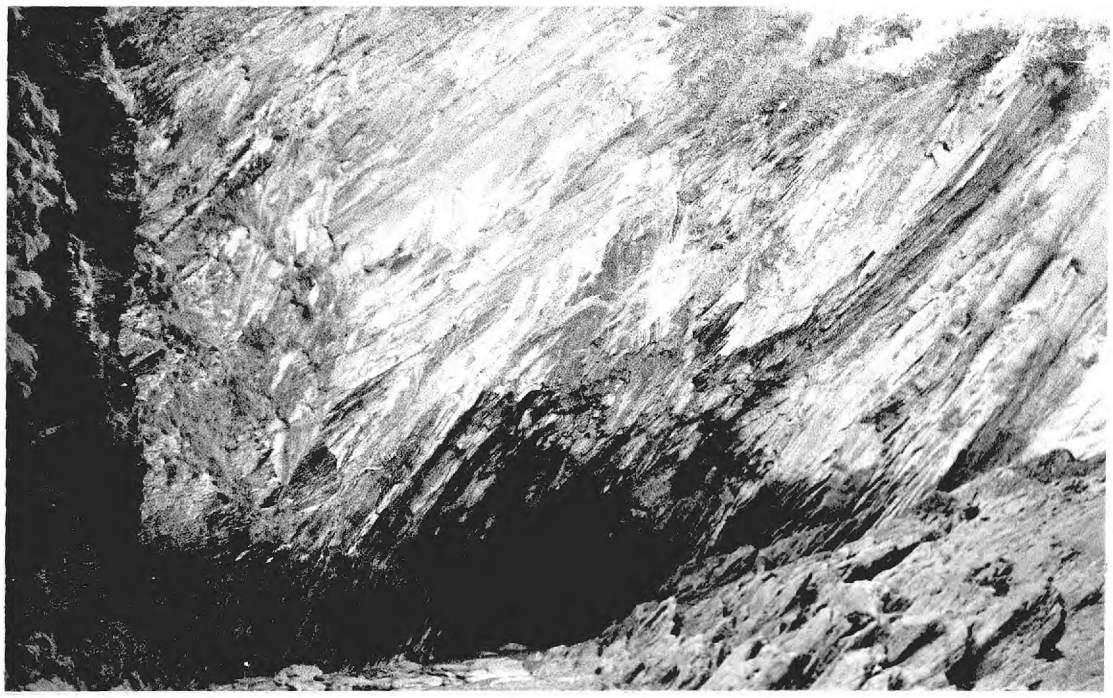
Fig. 1 The main anticlinal axis in the massive sandstones (Hangman Beds) seen along the west side of the Warren.

Fig. 2 'Desolation Cove'. Compare with the sketch, text fig. The contorted Rillage Limestone can be seen projecting into the right hand side of the cave.

PLATE 4



1.



2.

PLATE 5

Panoramic view of Hamator Rock and Broadstrand Beach.

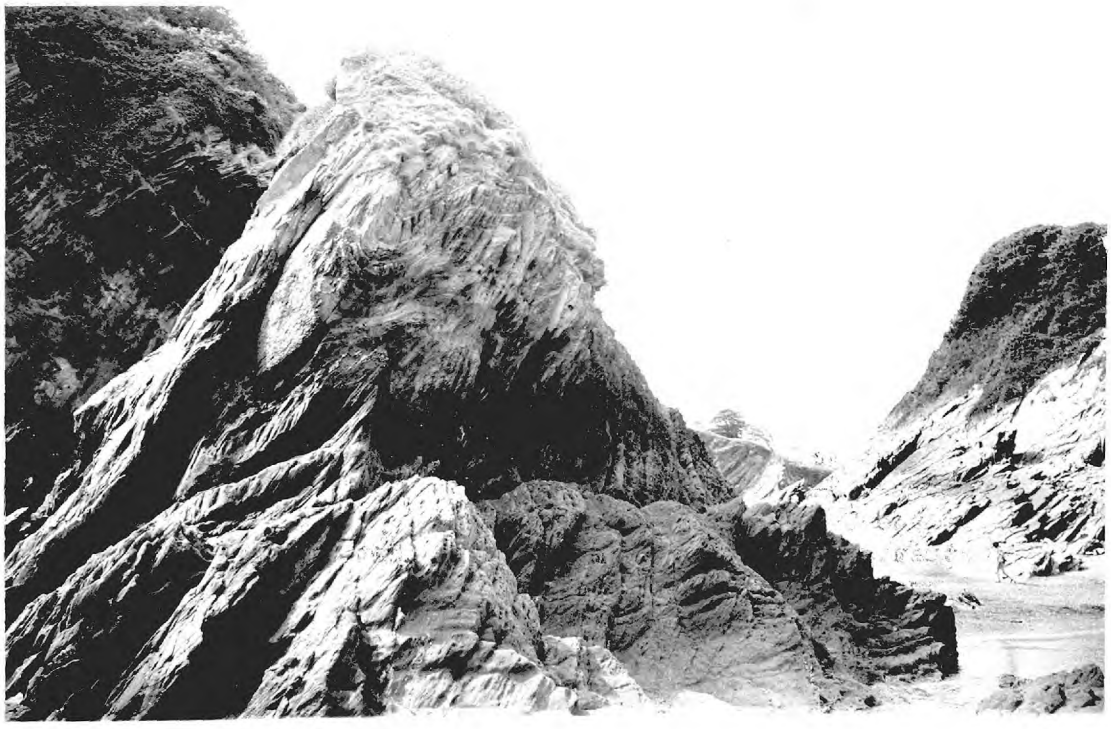
PLATE 5



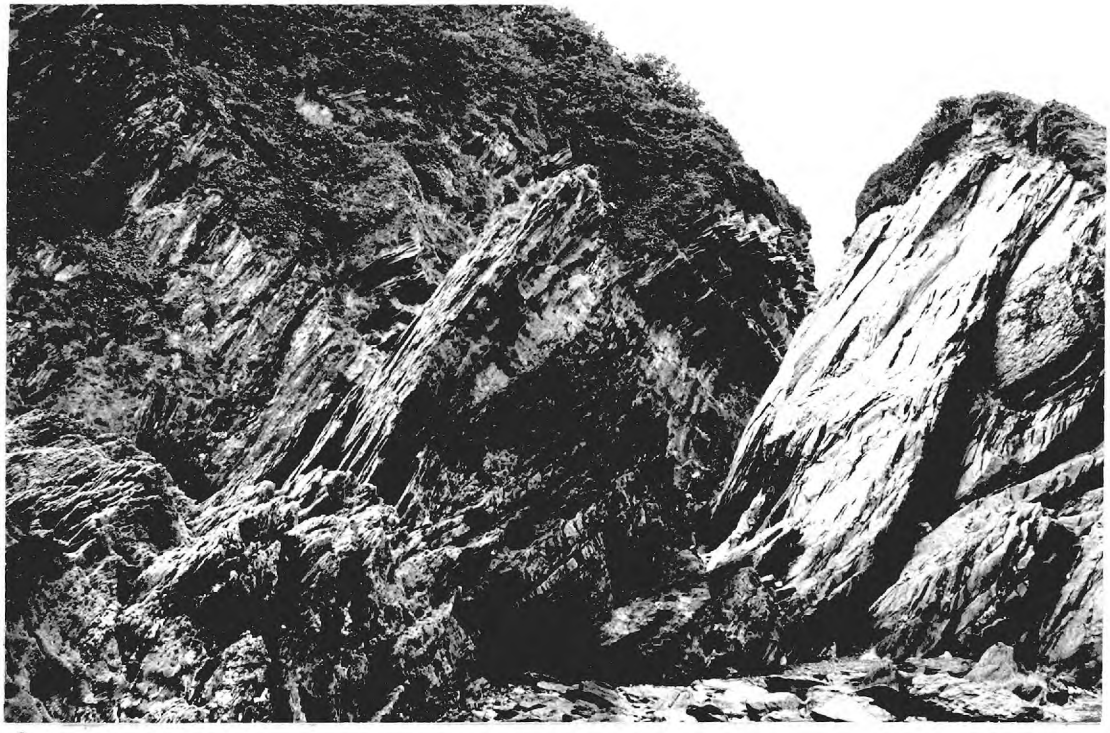
PLATE 6

Figs. 1-2 Tight folding in the Lower Ilfracombe Beds between Hamator and 'Raven's Nest Cove'. Fig.2 is the S.W. continuation of fig. 1. The stratigraphical horizon is about that of the Burrow Nose conglomerate.

PLATE 6



1.



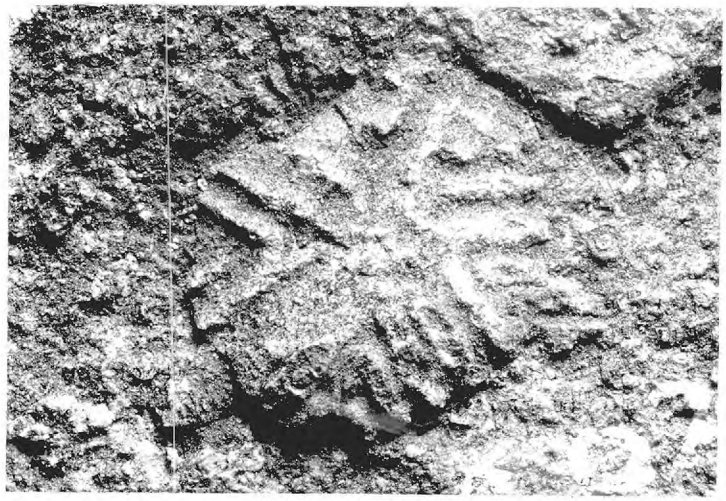
2.

PLATE 7

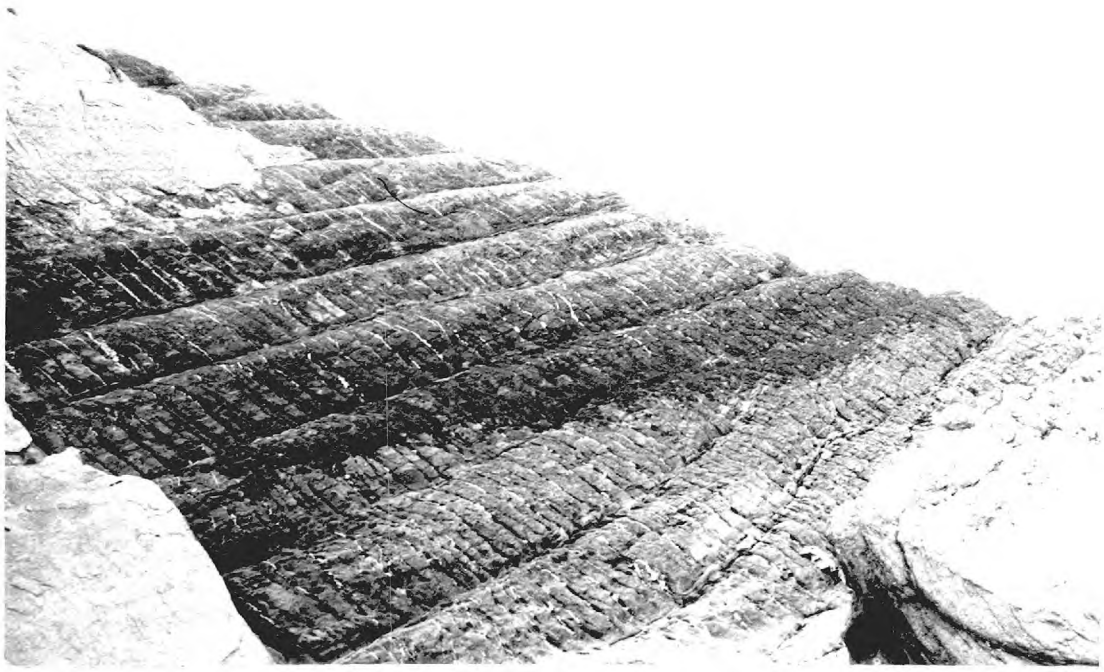
Fig. 1 Calicular plate of Sphaerocrinus geometricus from the Jenny Start Limestone in Oakestor Bay. The plate was obtained from a fallen block but there is little doubt as to its source.....x 8

Fig. 2 'Curtain Rock'. The Rillage Limestone is seen in a series of tight drag folds cut by tension cracks as it climbs a dip surface at Rillage Point.

PLATE 7



1



2.

PLATE 8

Natural arch leading into Samson's Bay from the west. Erosion has taken place along the core of an anticline, the traces of which can be seen in the photograph. The stratigraphical horizon is just below the Jenny Start Limestone.

PLATE 8



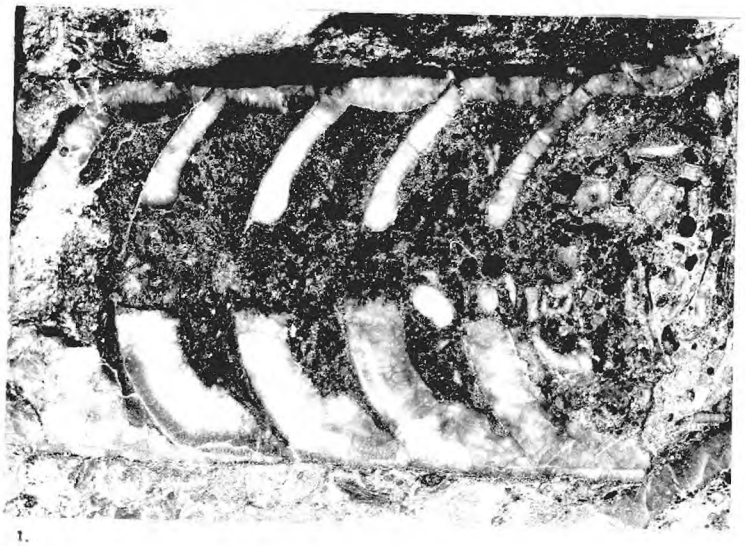
PLATE 9

Figs. 1-3 Fossils from the Rillage Limestone

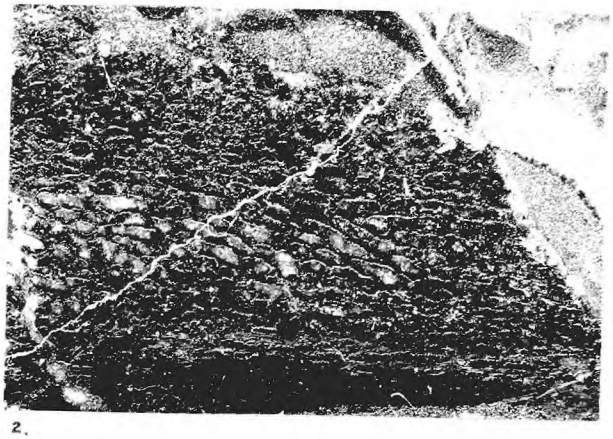
1.(x 4) and 3.(x 1.5) are species of Orthoceras

2. An unidentifiable boney fragment of a fish; such fragments are relatively common in the Hagginton Beach area.

PLATE 9



1.



2.



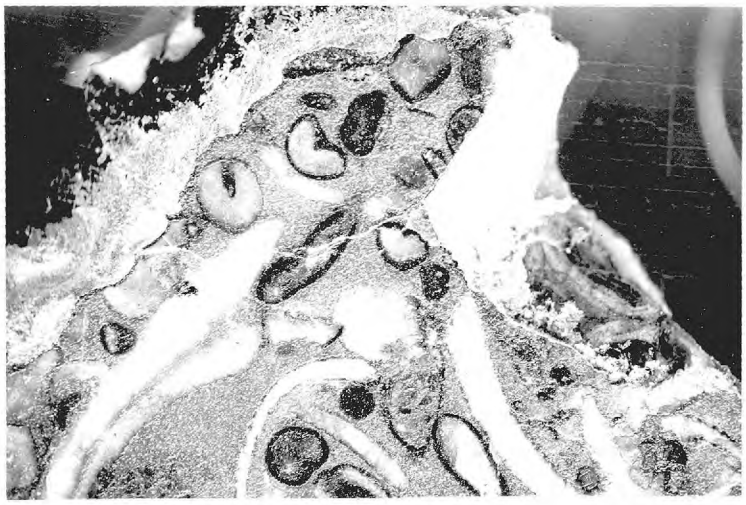
3.

PLATE 10

Fig. 1 Polished section of the Rillage Limestone from an outcrop on Hagginton Beach. Some of the small black-rimmed objects in the photograph are considered to be Ostracods.

Fig. 2 Small scale normal strike faulting seen in massive sandstones on the east side of Widmouth Head. Quartz filled tension gashes are also seen in the photograph.

PLATE 10



1.



2.

PLATE 11

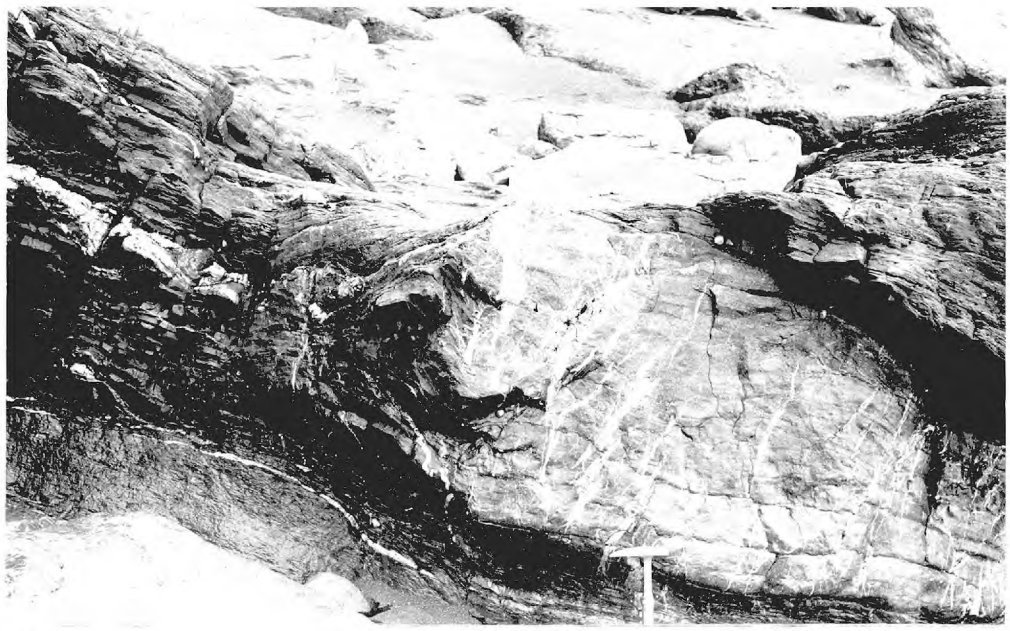
Fig. 1 Contorted bedding in the core of the syncline on the west side of Samson's Bay.

Fig. 2 Local development of massive dolomite in the Jenny Start Limestone at the eastern end of Hagginton Beach. The transition from bedded limestone into the dolomite is shown in the photograph.

PLATE 11



1.



2.

PLATE 12

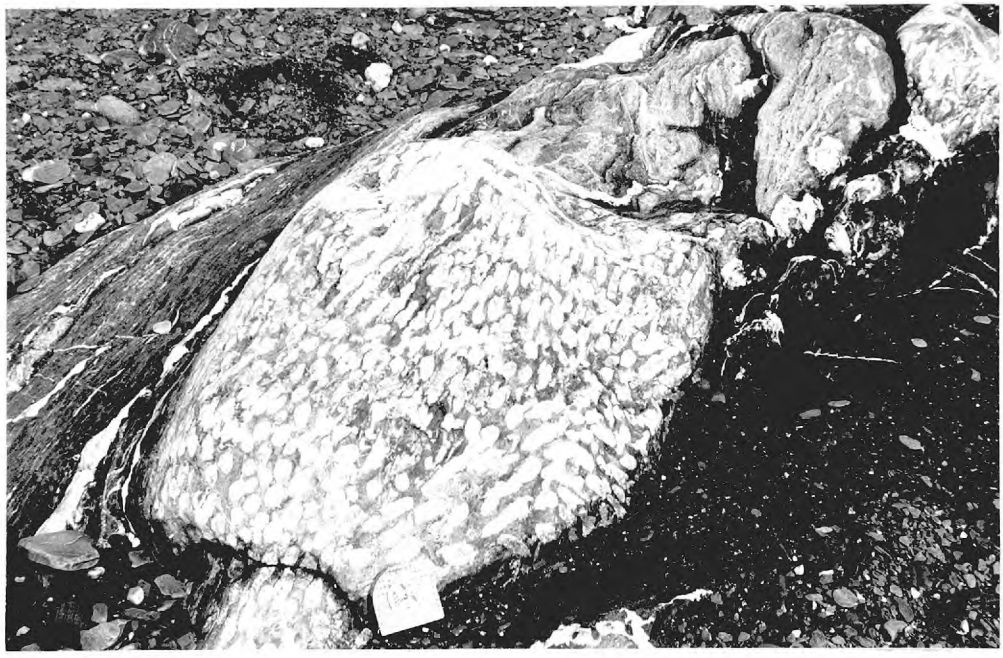
Fig. 1 Tight folding and thrusting in the Jenny Start Limestone near the foot of the steps leading to Hagginton Beach. The structures occur in the axis of an anticlinal feature.

Fig. 2 Large colony of Disphyllum haggintonense seen in its position of growth on the foreshore of Hagginton Beach. (The scale in the foreground is 2")

PLATE **12**



1.



2.

PLATE 13

Brachiopods from the Combe Martin Beach Limestone of Hagginton Beach, near Ilfracombe.

Fig. 1 *Cyrtospirifer* cf. *verneuili* (specimen 13.46).....x 1

Fig. 2 Hall Collection (Barnstaple Athenaeum) No.99 labelled *Rensellaria stringiceps*.....x 1.2

Fig. 3 ?*Schuchertella devonica* (specimen 13.36).....x 1.3

Fig. 4 Hall collection No.96, labelled '*Atrypa desquamata*'.....x 1.1

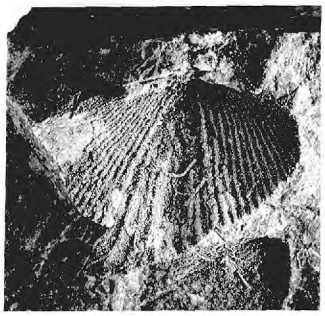
Fig. 5 Hall collection No.92, labelled '*Athyris* sp. from the quarry above Rillage'.....x 1

Fig. 6 Partridge collection (Barnstaple Athenaeum) No.113 - *Leptaena* sp.....x 1.5

Fig. 7 *Cyrtospirifer verneuili* (specimen 13.45) - external mould.....x .8

Fig. 8 The same - internal cast.....x .8

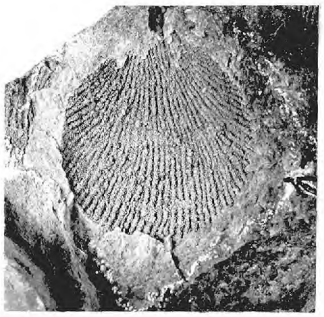
PLATE 13



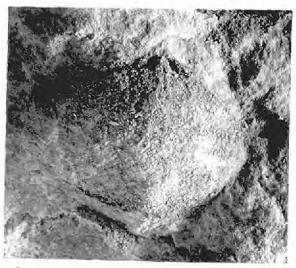
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2.



3.



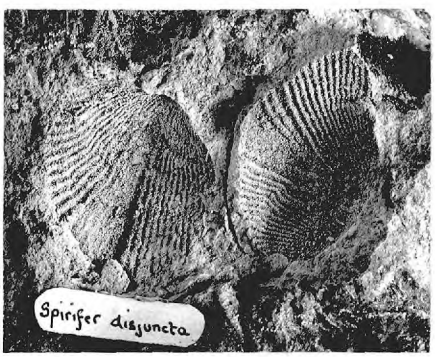
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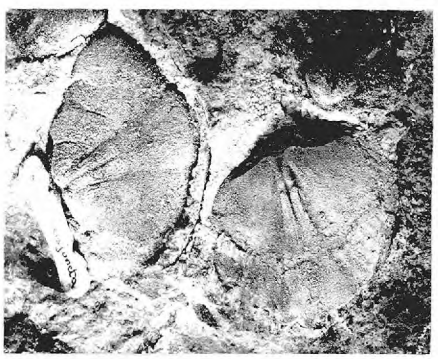
5.



6.



7.

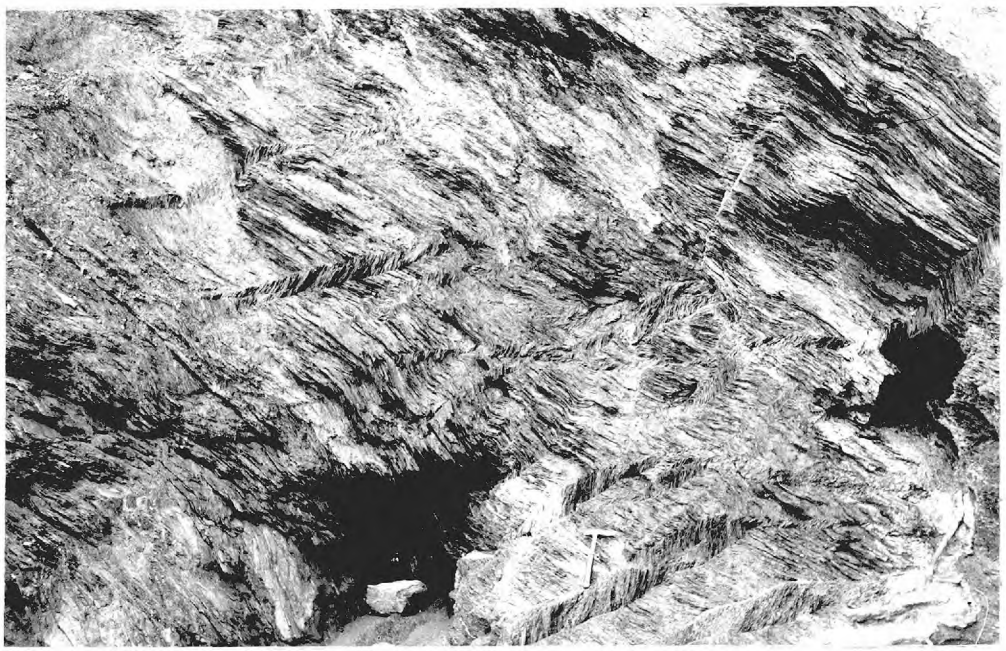


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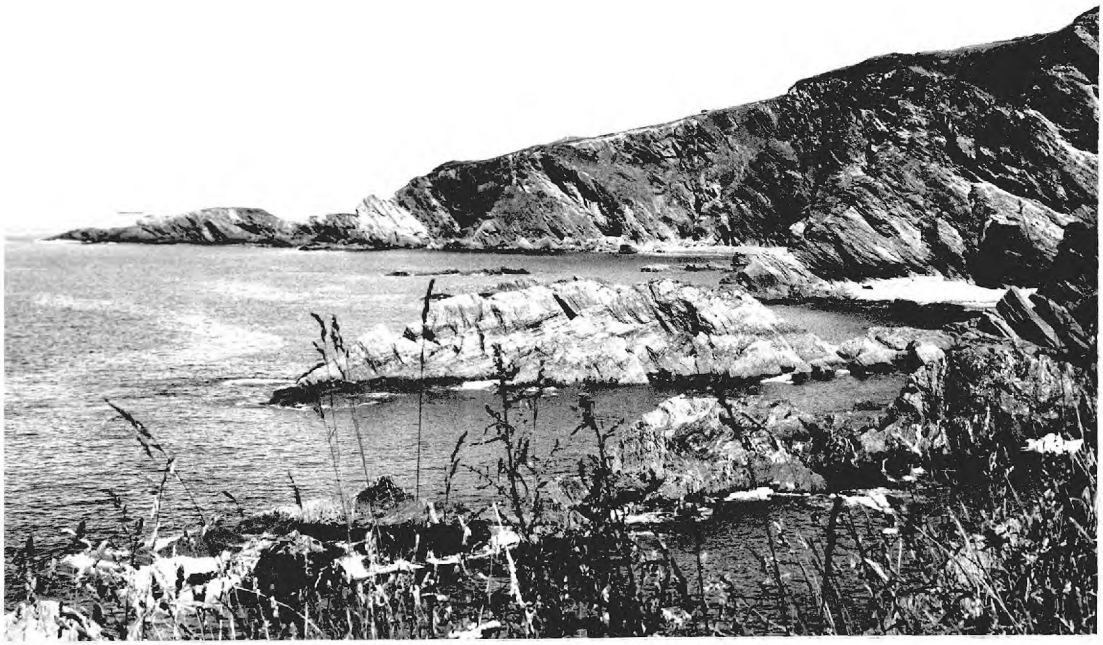
PLATE 14

Fig. 1 Contorted cleavage where a strike fault enters the cliffs about the centre of Hagginton Beach.

Fig. 2 General view looking east along Hagginton Beach. The structure in the middle distance can be seen plunging to the west. Rillage Point is seen in the far distance.



1.



2.

PLATE 15

See Volume I, page 103.

PLATE 16

See Volume I, page 109.

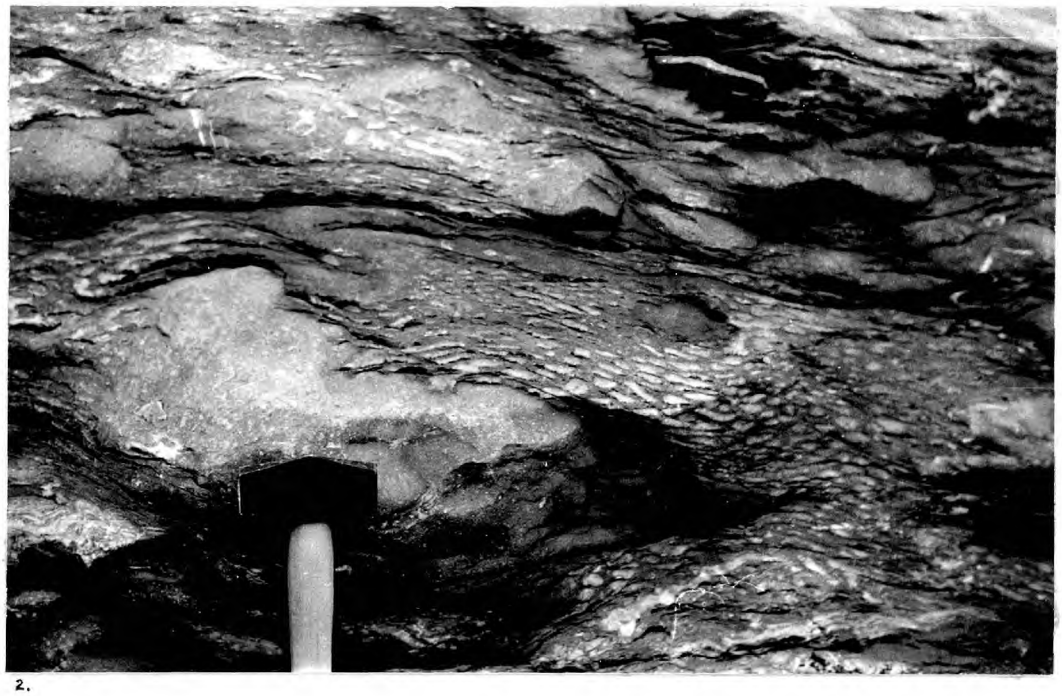
PLATE 17

Figs. 1-2 Coral reef development in the David's Stone Limestone of Broadstrand Beach, Hillsborough. The majority of the colonies in both photographs consist of Thamnopora and Alveolites.

PLATE 17



1.



2.

PLATE 18

Home-made apparatus for making fine cuts through small corals. The machine consists of an eighth horse-power electric motor, a Wolf 'Cub' flexible drive, an old binocular stand, and a goniometer table. A dental diamond cutting wheel was mounted in the chuck for the most delicate work; for general purposes, a 4 in. diamond impregnated copper wheel was used.

PLATE 18

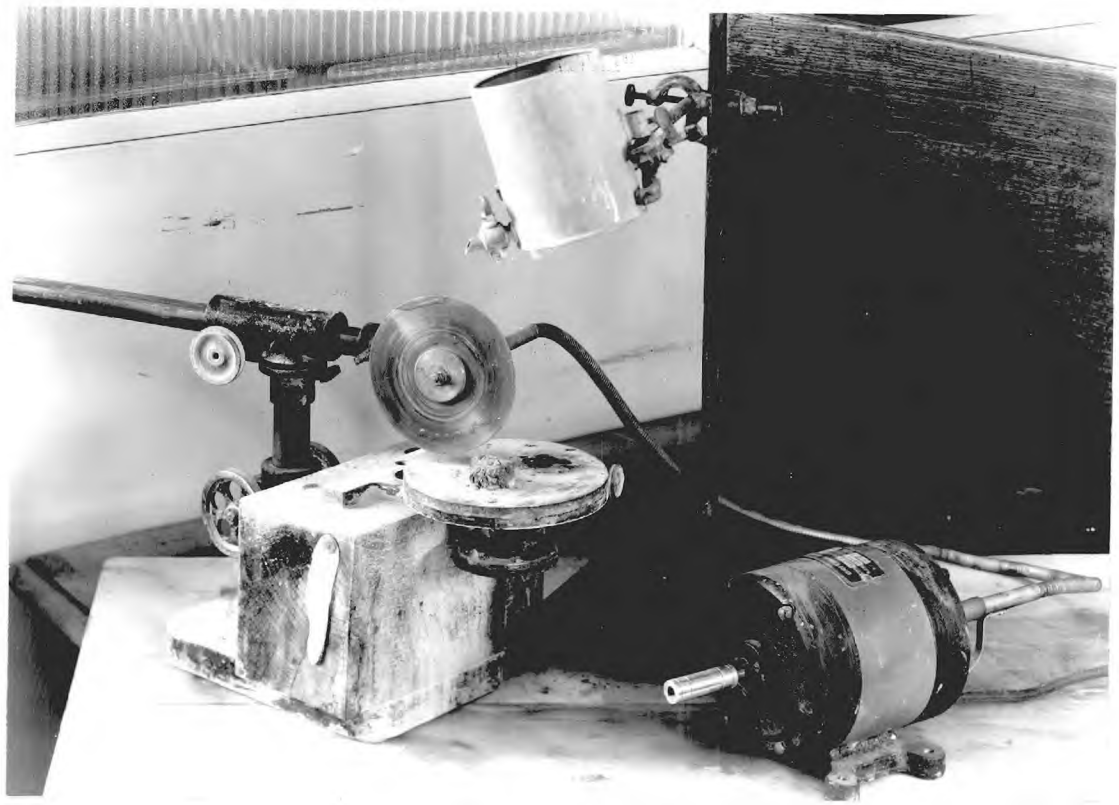


PLATE 19 MESOPHYLLUM AND CYSTIPHYLLOIDES

Page

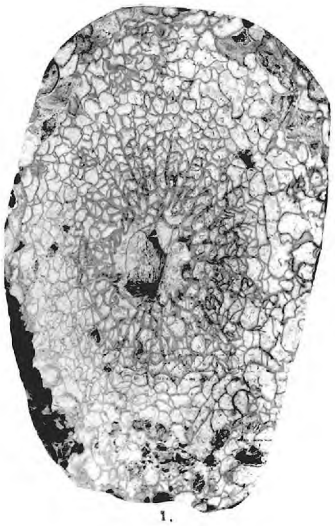
Figs. 1,3 & 6. Mesophyllum (Hemicosmophyllum) irregularum sp. nov. 189

1. & 3. Transverse section of the holotype, specimen 11.25 from the Jenny Start Limestone of Samson's Cove.....x 1.6
6. Longitudinal section of the same specimen x 1.6

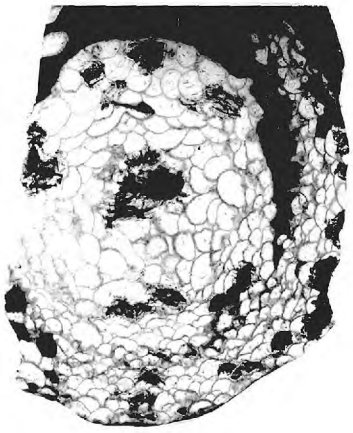
Figs. 2,4 & 5. Cystiphylloides corneolum (Wedekind and Vollbrecht) 186

2. Transverse thin section of specimen 10.5 from the Jenny Start Limestone of Widmouth Head.....x 1.8
4. Transverse thin section of specimen 19.6 from the Jenny Start Limestone of Rillage Quarry.....x 1.7
5. Longitudinal thin section of specimen 10.5 from the Jenny Start Limestone of Widmouth Head.....x 1.8

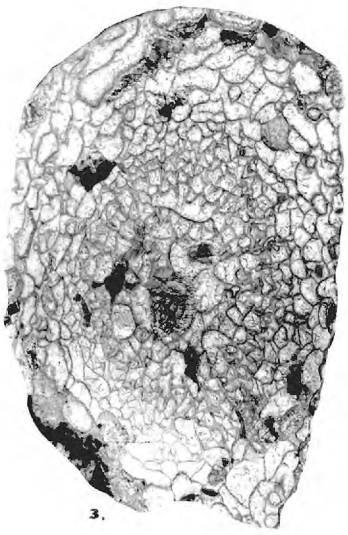
PLATE 19



1.



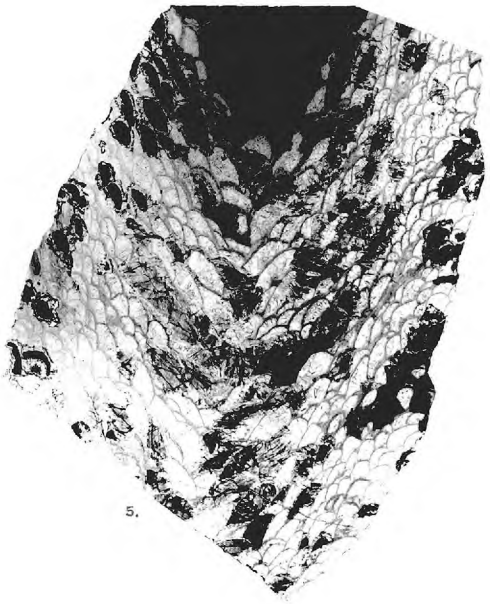
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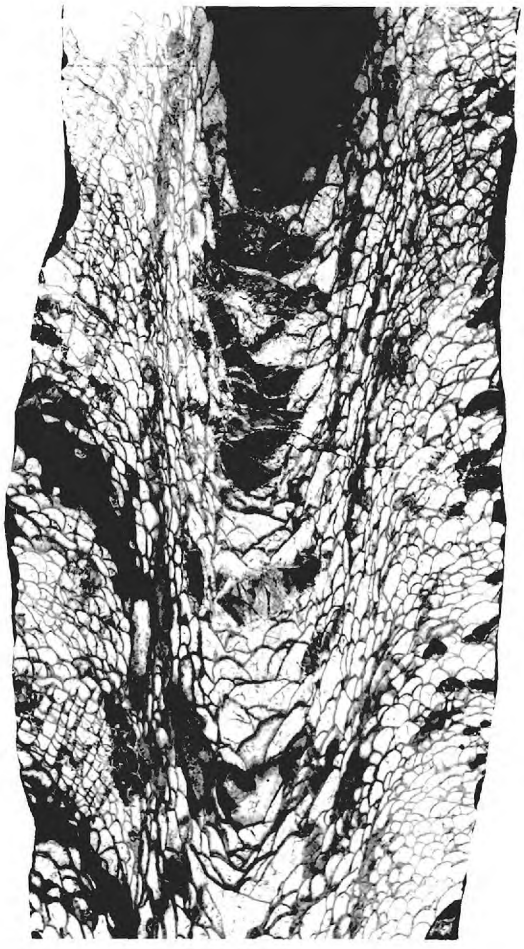
3.



4.



5.



6.

PLATE 20 ENDOPHYLLUM

Page

Figs. 1. & 2. Endophyllum cf. bowerbanki. 170

1. Transverse section of specimen 7.23 from the Jenny Start Limestone of Jenny Start.....x 1.7
2. Transverse section of specimen 7.33 from the Jenny Start Limestone of Jenny Start.....x 1.7

Fig. 3. Endophyllum cf. abditum. 170

Longitudinal section of specimen 17.3 from the Jenny Start Limestone of Hagginton Beach.....x 2.25

PLATE 20



1.



2.



3.

PLATE 21 ENDOPHYLLUM.

Page 107

Fig. 1. Endophyllum cf. abditum.

Transverse section of specimen 17.3 from the Jenny Start Limestone of Hagginton Beach.....x 1.7

PLATE 21

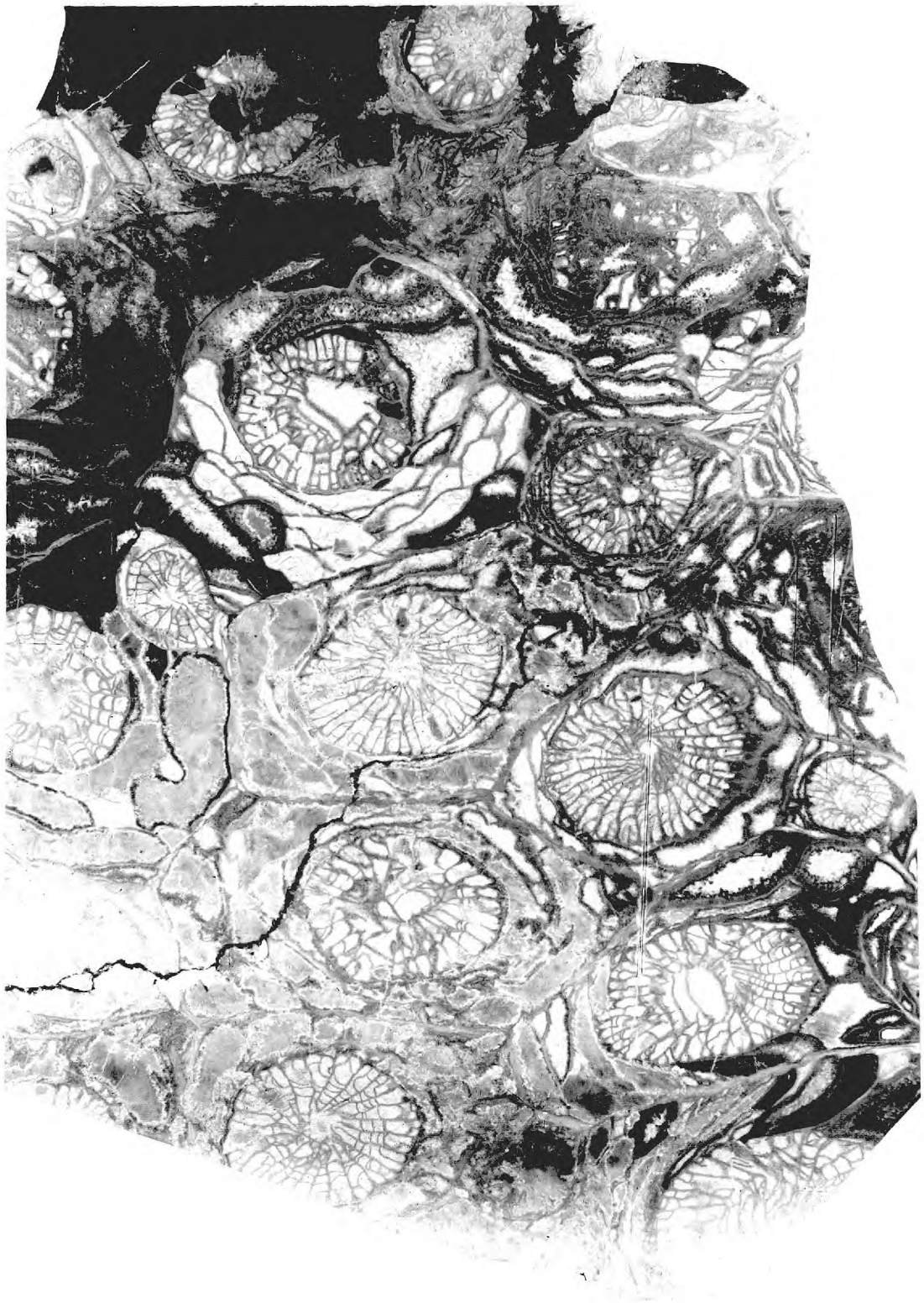


PLATE 22. PHILLIPSASTRAEA AND DISPHYLLUM

Page

Fig. 1. *Phillipsastraea cripta* sp. nov. 168

Transverse section of the holotype (15.26) from the David's Stone Limestone of Broadstrand Beach.....x 3,6

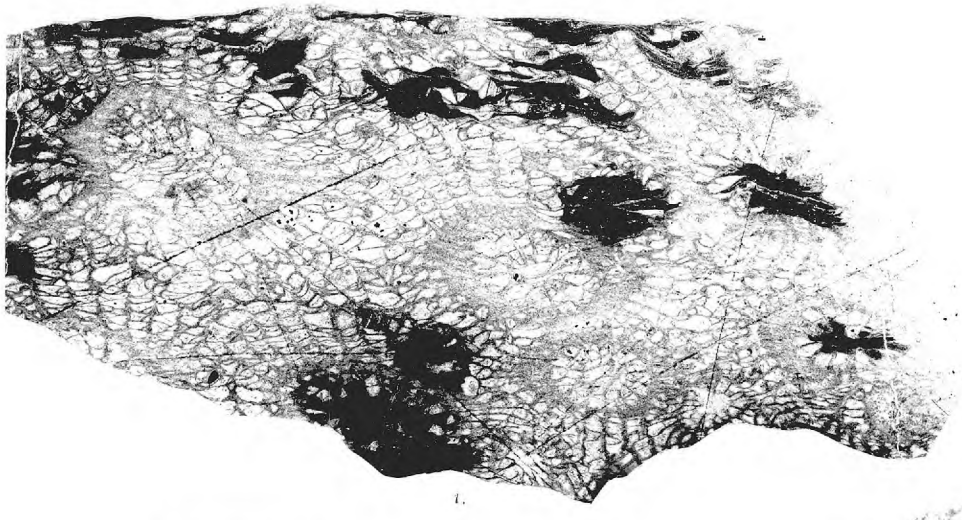
Fig. 2. *Disphyllum goldfussi* (Geinitz) 151

Transverse section of specimen 14.93 from the Jenny Start Limestone of Rillage Point.....x 5

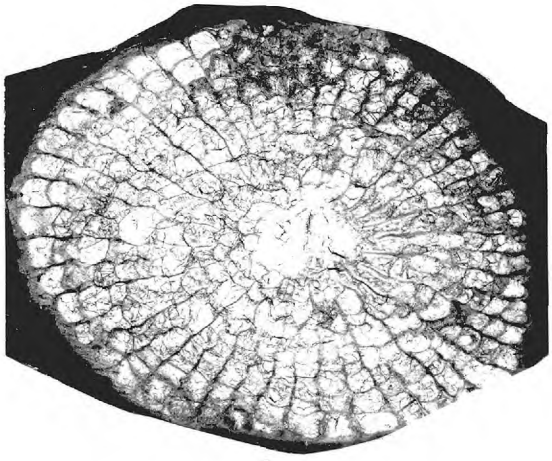
Figs. 3,4 & 5. *Disphyllum haggintonense* sp. rov. 152

3. Longitudinal thin section of specimen 10.24 from the Jenny Start Limestone of Rillage Point.....x 5
4. Transverse thin section of specimen 14.101 from the same locality.....x 5
5. Transverse thin section of specimen 10.24 from the same locality.....x 5

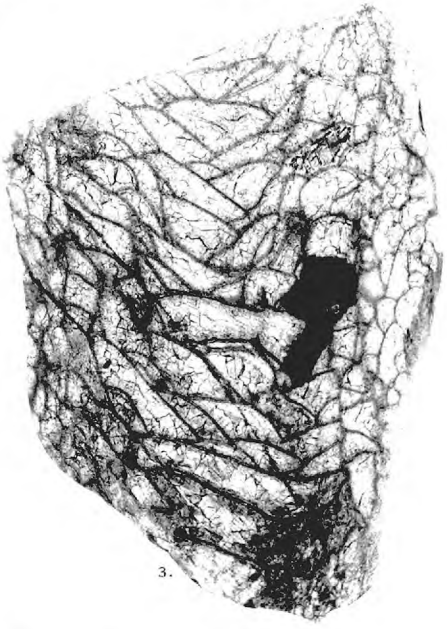
PLATE. 22



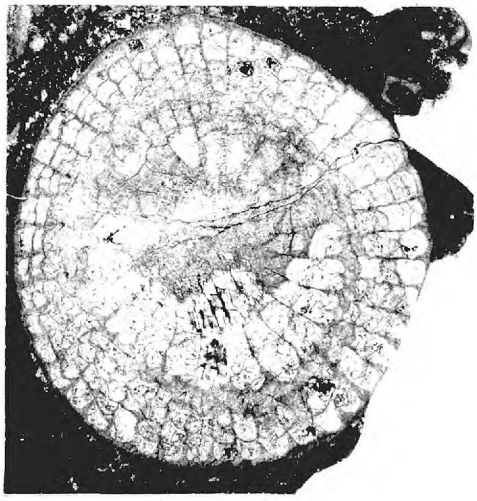
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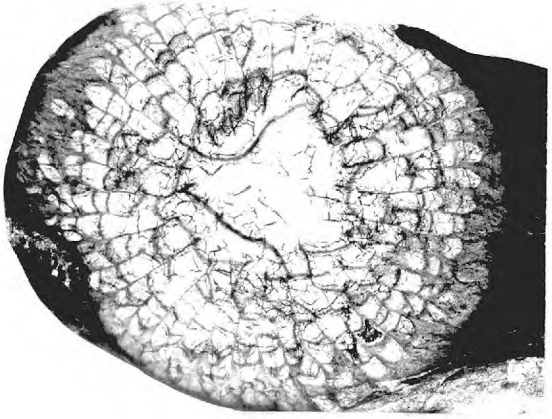
2.



3.



4.



5.

PLATE 23

PHILLIPSASTRAEA, BILLINGSASTRAEA AND DISPHYLLUM.

Page

Fig. 1. Phillipsastraea sola sp. nov. 167

Transverse section of the holotype, specimen 14.38 from the Jenny Start Limestone of Rillage Point.....x 3

Fig. 2. ?Billingsastraea cf. devonense 158

Transverse section of specimen 18.15 from the Jenny Start Limestone of Widmouth Head.....x 1.8

Figs. 3, & 4. Disphyllum haggintonense sp. nov. 152

3. Transverse thin section of the holotype, specimen 13.124 from the Jenny Start Limestone of Hagginton Beach .....x 2

4. Longitudinal section of the paratype, specimen 13.127 from the Jenny Start Limestone of Hagginton Beach.....x 3.6

Fig. 5. Phillipsastraea cripta sp. nov. 168

Transverse and longitudinal thin section of the paratype, specimen 15.28 from the David's Stone Limestone of Broadstrand Beach.....x 3

PLATE 23

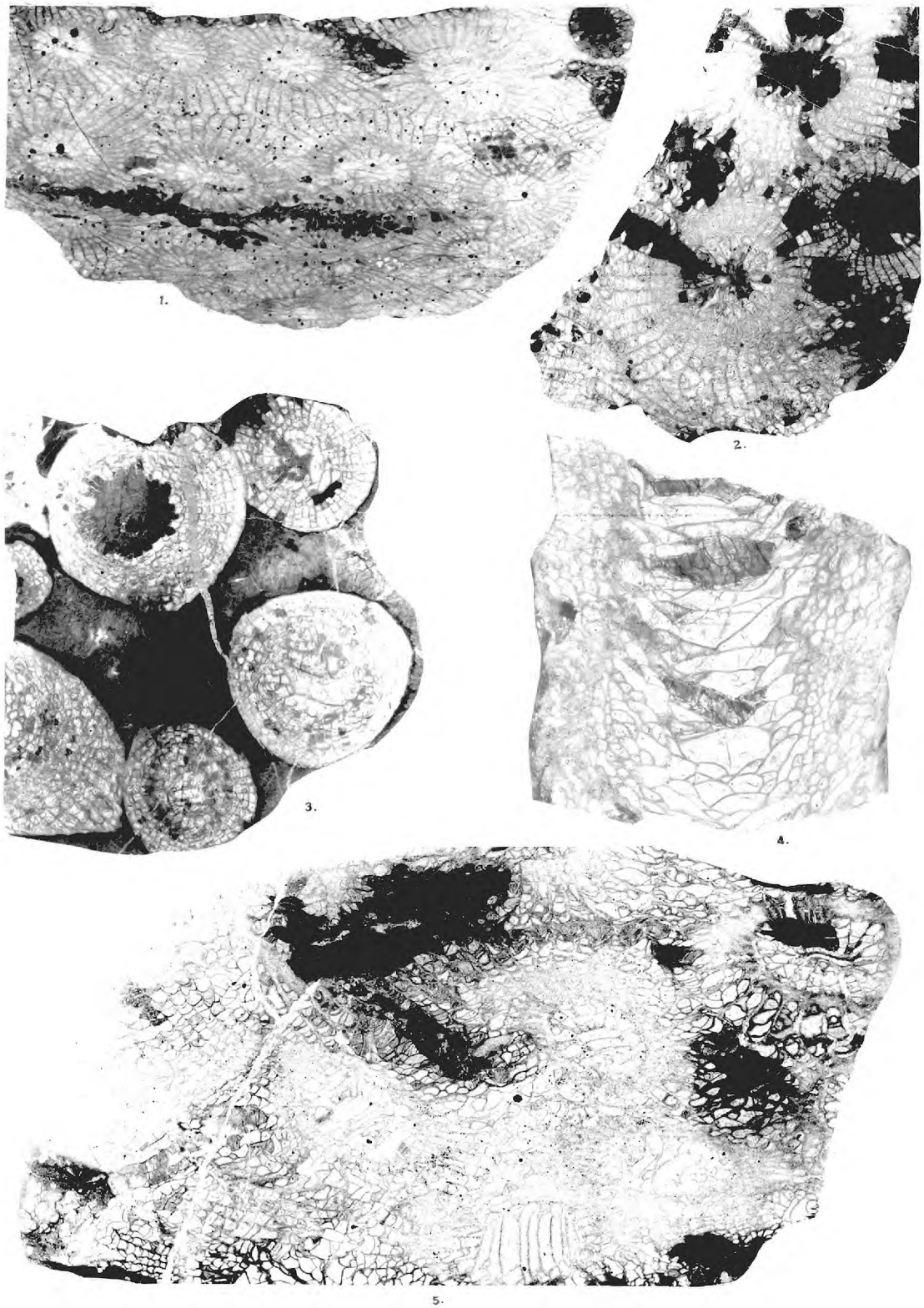


PLATE 24 DISPHYLLUM

Page
152

Disphyllum haggintonense sp. nov.

Thin transverse section of a large corallum, specimen 20.1, showing lateral budding; from the Jenny Start Limestone of Samson's Bay....x 1.75

PLATE 24



PLATE 25 DISPHYLLUM

Page 152

Figs. 1 & 2 *Disphyllum haggintonense* sp. nov.

1. Part of a large corallum which has been distorted by tectonic forces. Specimen 14.1 from the Jenny Start Limestone of Rillage Point.....x 0.75

2. Longitudinal thin section cut from the corallum illustrated in fig.1.....x 1.75

PLATE 25

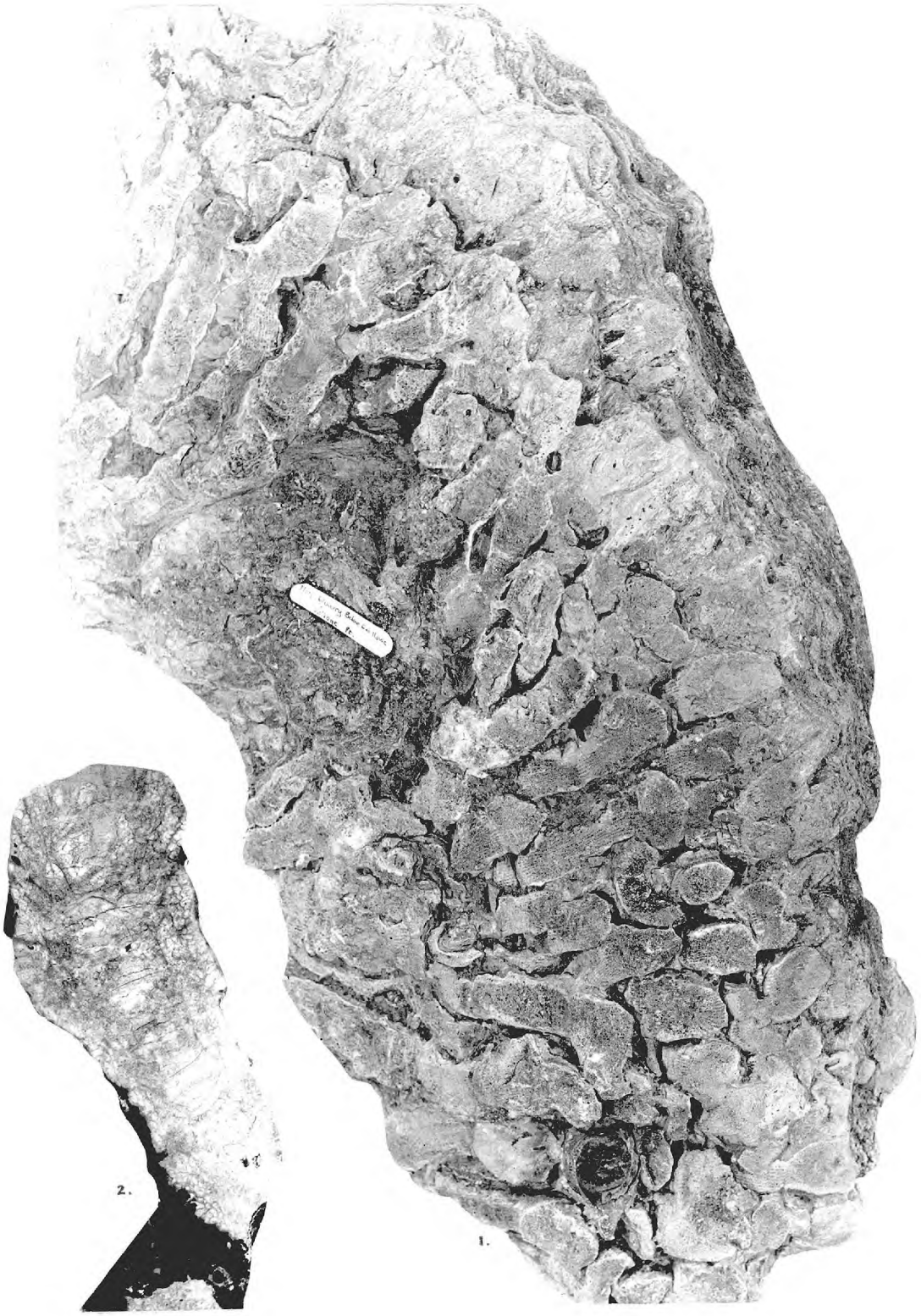


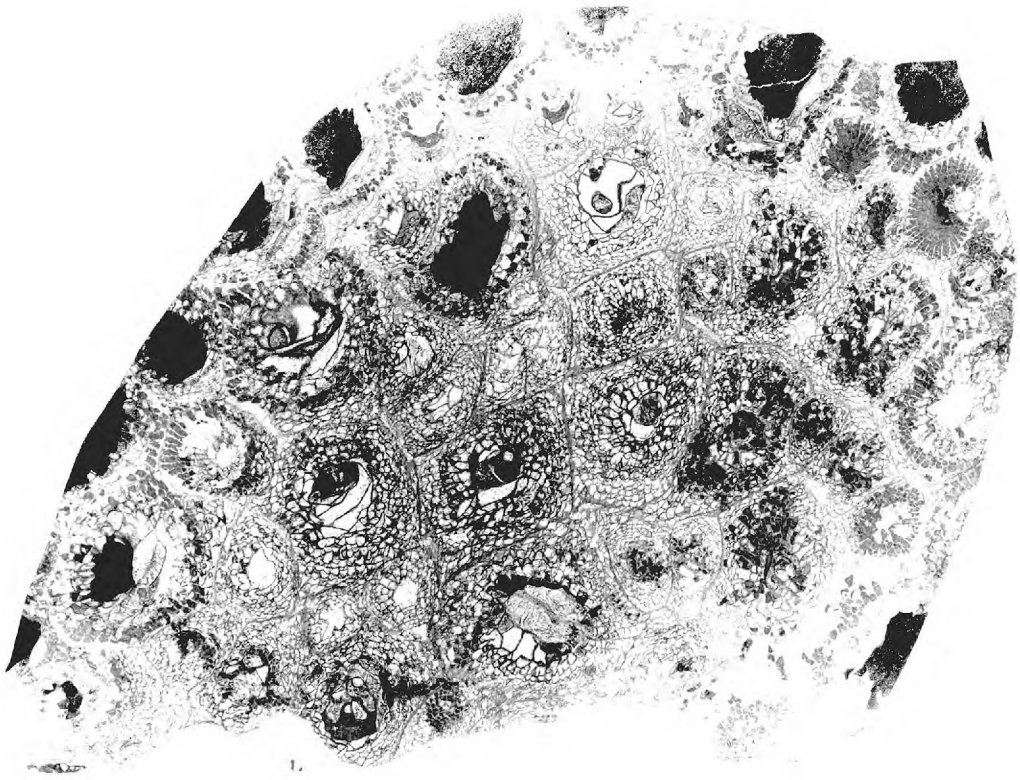
PLATE 26 HEXAGONARIA

Page 160

Figs. 1 & 2. Hexagonaria boloniensis (de Blainville)

1. Transverse section of specimen 13.34 from the Jenny Start Limestone of Hagginton Beach.....x 1.5
2. Longitudinal section of specimen 13.34 from the same locality.....x1.5

PLATE 26



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PLATE 27 THAMNOPHYLLUM

Page

Figs. 1 & 2, & 5 - 8 Thamnophyllum caespitosum (Goldfuss) 163

1. Transverse thin section of specimen 14.35b from the Jenny Start Limestone of Rillage Point...x 2.5

2. Longitudinal thin section of specimen 17.36 from the Jenny Start Limestone of Hagginton Beach.x 3

5. Longitudinal thin section of specimen 14.40 from the Jenny Start Limestone of Rillage Point...x 4

6. Transverse thin section of specimen 14.35c from the Jenny Start Limestone of Rillage Point...x 3

7. Transverse thin section of specimen 14.25 from the Jenny Start Limestone of Rillage Point...x 3.8

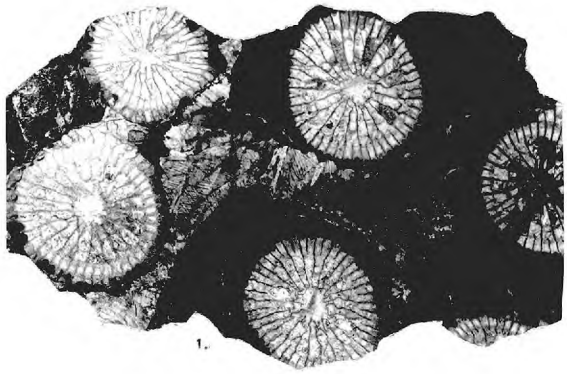
8. Longitudinal thin section of specimen 10.18 from the Jenny Start Limestone of Widmouth Head...x 3.5

Figs. 3 & 4 Thamnophyllum sp. 165

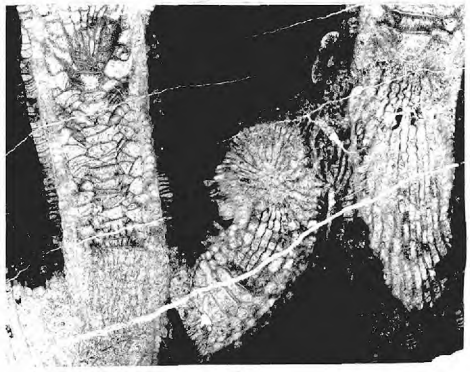
3. Transverse section of specimen 10.59a from the Jenny Start Limestone of Widmouth Head.....x 3.5

4. Longitudinal section of specimen 10.59b showing additional globose dissepiments on either side of the horse-shoe ones. From the Jenny Start Limestone of Widmouth Head.....x 3.5

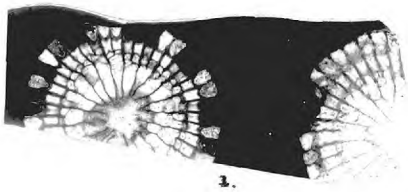
PLATE 27



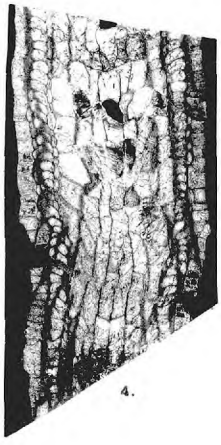
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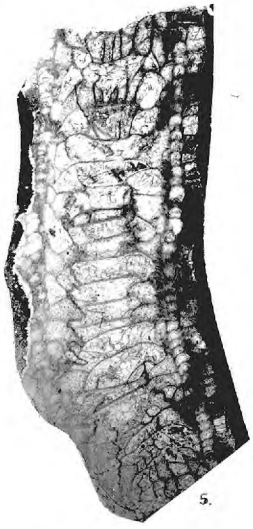
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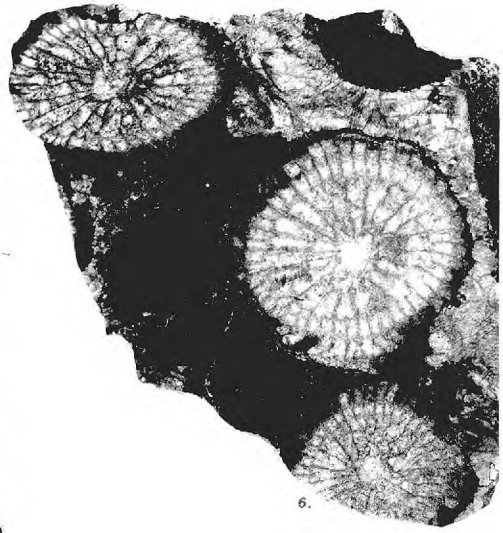
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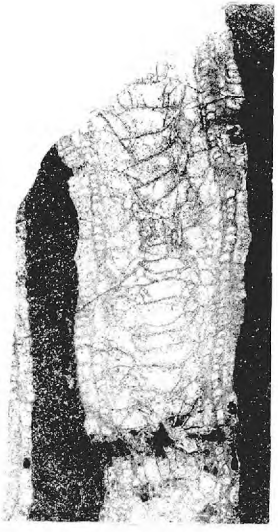
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PLATE 28 DISPHYLLUM

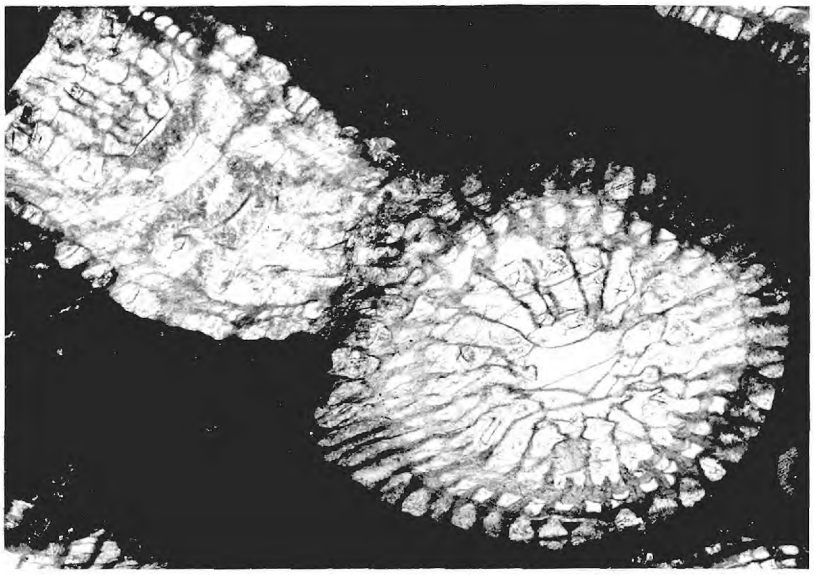
Page 163

Figs. 1 & 2. Disphyllum caespitosum (Goldfuss)

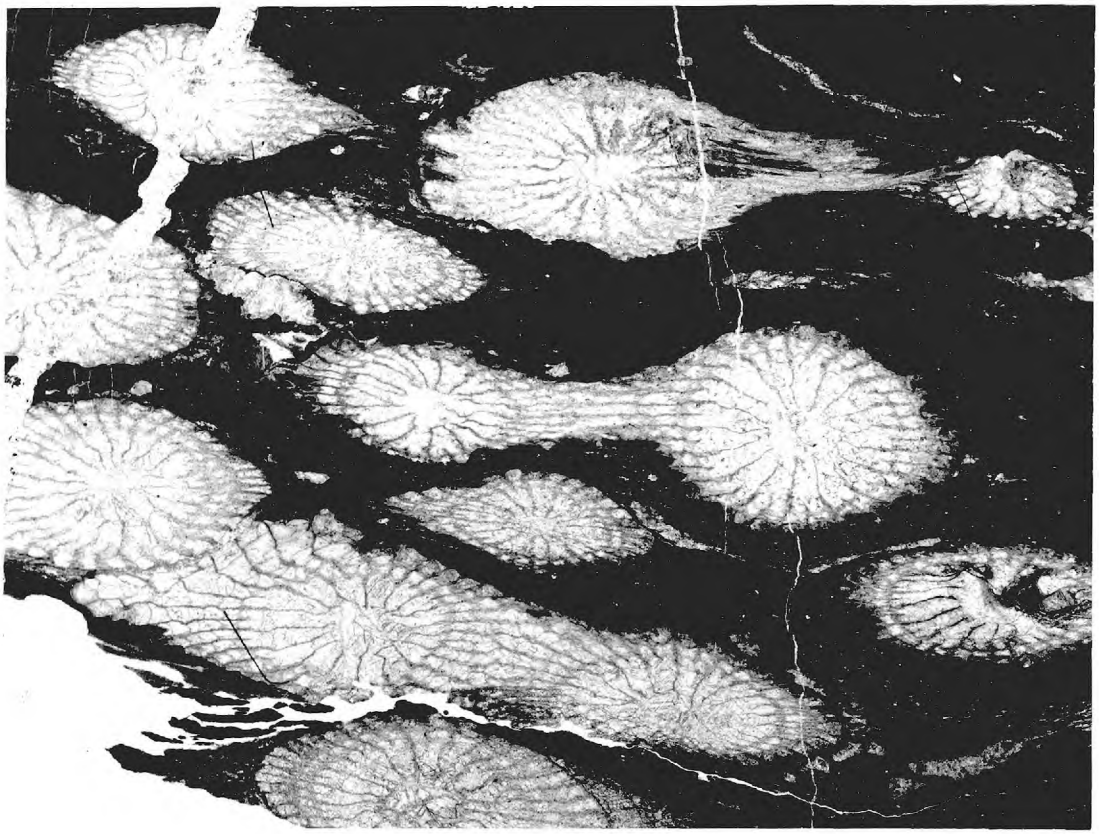
1. Thin section of specimen 17.36d from the Jenny Start Limestone of Hagginton Beach, showing a lateral bud diverging at about 90° from the parent corallite.....x 8

2. Transverse section of specimen 13.18 from the Jenny Start Limestone of Hagginton Beach. The tendency to plocoid form in the early stages after budding is seen in two pairs of corallites. The distortion of the corals and their solution at points of maximum pressure is typical of the vast majority of corals from the Ilfracombe Beds of North Devon.....x 6.5

PLATE 28



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PLATE 29 THAMNOPHYLLUM

Page 163

Thamnophyllum caespitosum (Goldfuss)

Transverse thin section of large corallum, specimen 8.5 from the Jenny Start Limestone of the Old Coast Road near Combe Martin.....x 2.5

PLATE 29

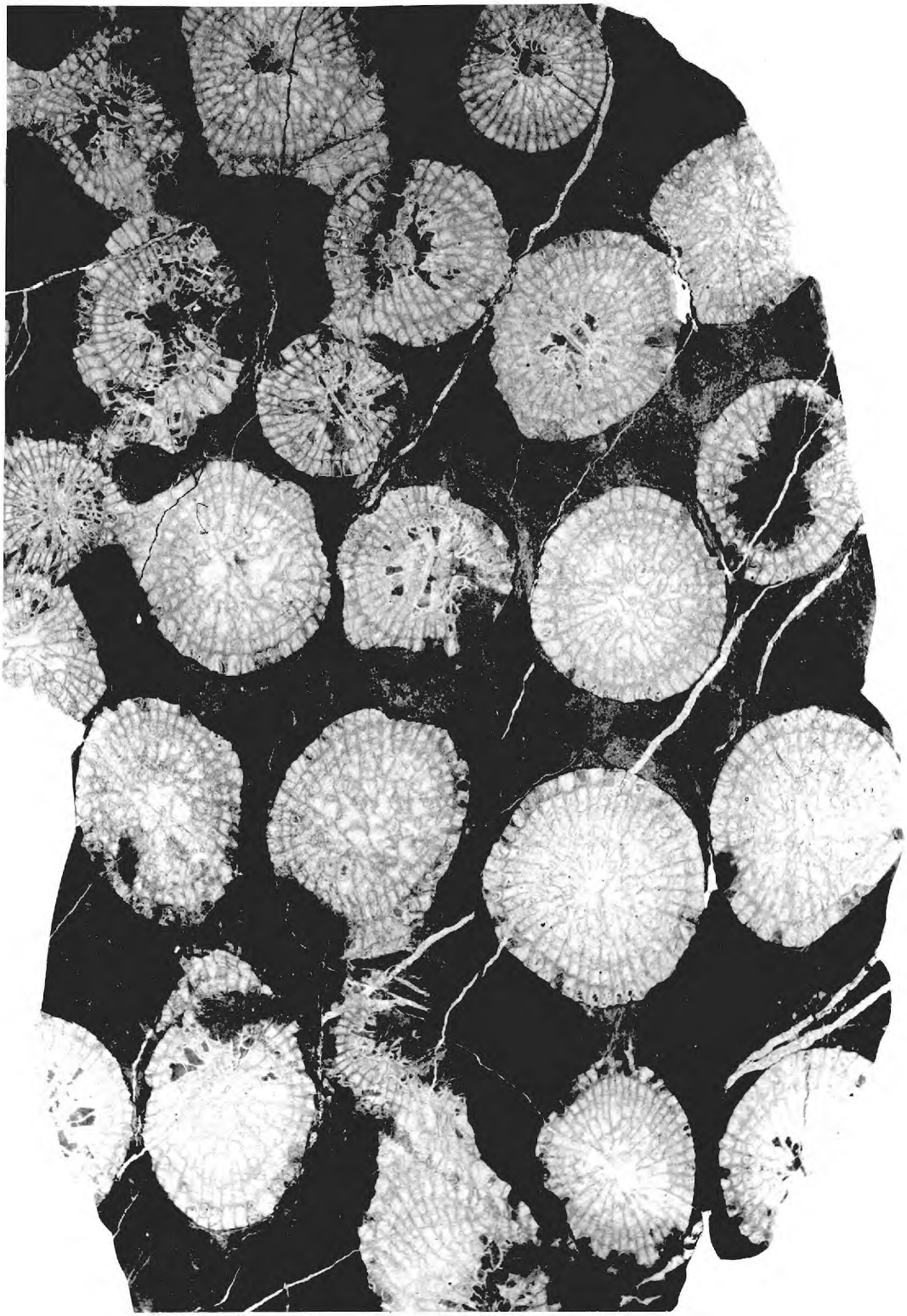


PLATE 30 SYRINGAXON

page

Figs. 1-2, 7. Syringaxon geniculata sp. nov. 129

1. Longitudinal polished section of specimen 4.46 from the Combe Martin Beach Limestone of the Parlour, showing the form of the central and outer tabulae.....x 3.3

2. Longitudinal polished section of the holotype (specimen 5.6) from the Combe Martin Beach Limestone of Newberry Beach.....x 7.5

7. Transverse polished section of the same.....x 7.5

Figs. 3-4. Syringaxon forte sp. nov. 128

3. Polished transverse section of a juvenile specimen from the calcareous shales in the middle part of the David's Stone Limestone.(No.6.8).....x 9

4. Polished transverse section of the holotype(6.2) from the same locality.....x 10

Fig. 5. Syringaxon rota sp. nov. 137

Polished transverse section of the holotype from the Combe Martin Beach Limestone of the Parlour. (Specimen No.5.11).....x 12

Fig. 6. Syringaxon latisepta sp. nov. 133

Polished transverse section of the holotype from the Combe Martin Beach Limestone of the Parlour, near Combe Martin. (Specimen No.5.10).....x 5

Fig. 8 Syringaxon parva sp. nov. 136

Polished transverse section of the holotype from the Combe Martin Beach Limestone of the Parlour. specimen No.4.6.....x 11

PLATE 30



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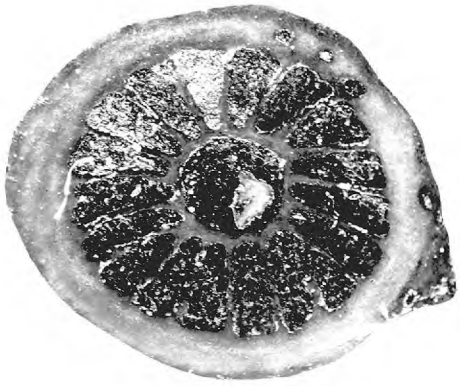


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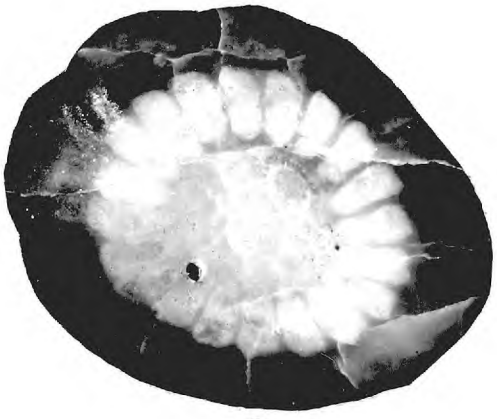
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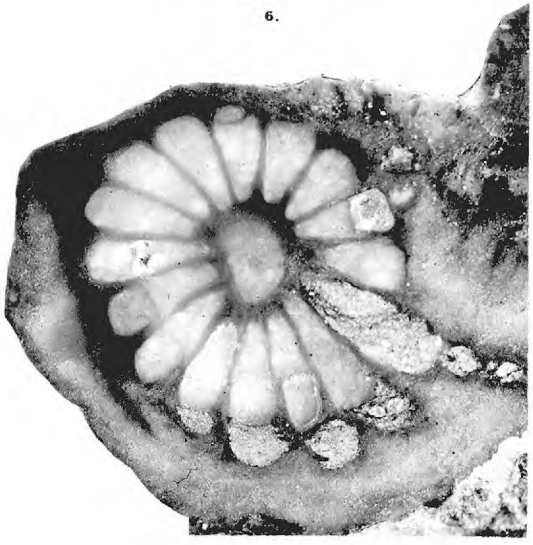
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PLATE 31 SYRINGAXON AND BARRANDEOPHYLLUM

Figs. 1,7. *Syringaxon grandis* sp. nov. 131

1. Polished transverse section of the holotype (15.7) from the David's Stone Limestone of Hele Bay..x 4.5

7. Polished longitudinal section of a paratype (6.8) from the David's Stone Limestone of Sandy Bay.x 7.5

Figs. 2, 5, 10-11. *Barrandeophyllum newberriense* sp. nov. 141

2. Polished transverse section of the paratype (13.46) from the Combe Martin Beach Limestone of Hagginton Beach.....x 7

5. Polished transverse section of the holotype (5.7) from the Combe Martin Beach Limestone of Newberry Beach.....x 7

10. Polished transverse calicular section of the paratype (13.46) from the Combe Martin Beach Limestone of Hagginton Beach.....x 7

11. Polished longitudinal section of specimen 13 46 (see fig.2).....x 3.5

Fig. 3. *Syringaxon geniculata* sp. nov. 129

Transverse polished section of specimen 4.4 from the Combe Martin Beach Limestone of Newberry Beach near Combe Martin.....x 13

Fig. 4, 8. *Syringaxon* cf. *smithi* Prantl 138

4. Transverse polished section of a juvenile specimen (6.23) from the David's Stone Limestone of David's Stone.....x 8

8. Transverse polished section of specimen 15.16 from the David's Stone Limestone of Hillsborough. .....x 8

Figs. 6,9. *Barrandeophyllum* cf. *symmetricum* Frech 143

6. Transverse polished section of specimen 6.4 from the David's Stone Limestone of David's Stone...x 8

9. Longitudinal polished section of the same.....x 8

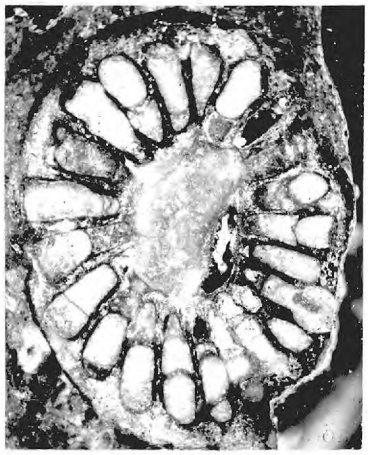
Fig. 12. *Meniscophyllum crescentum* sp. nov. 147

Polished transverse section of specimen 5.2 from the Combe Martin Beach Limestone of Newberry Beach.x 10

PLATE 31



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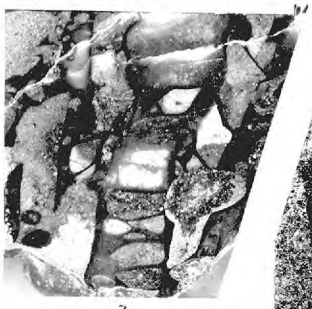




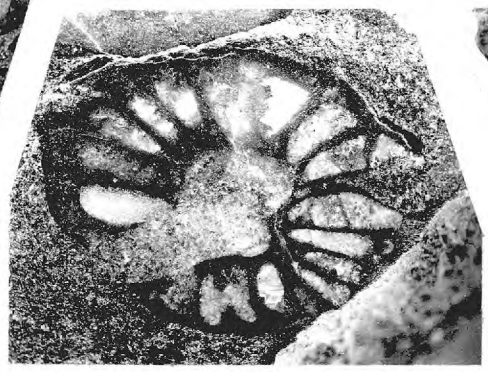
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PLATE 32 MENISCOPHYLLUM, SYRINGAXON, BARRANDEOPHYLLUM & AMPL XIPHYLLUM

page

Fig. 1. Meniscophyllum crescentum sp. nov. 147

Polished transverse section of the holotype (13.4) from the Combe Martin Beach Limestone of Hagginton Beach.....x 6

Figs. 2, 8-9. Barrandeophyllum intervallum sp. nov. 141

2. Transverse polished section of the holotype (5.9) from the Combe Martin Beach Limestone of The Parlour.....x 7

8. Transverse polished section of a paratype (5.9) from the same locality.....x 5

9. Longitudinal polished section of the same specimen.....x 5

Figs. 3-4, 7. Syringaxon grossa sp. nov. 132

3. Thin transverse section of the holotype (14.104). This probably illustrates a more juvenile stage than fig. 4 as it was cut just above the point at which the coral was rejuvenated.....x 5

4. Thin transverse section of the holotype cut just below the point of rejuvenation.....x 8

7. Longitudinal thin section of the holotype showing rejuvenation.....x 5
The holotype (specimen 14.104) was obtained from the Jenny Start Limestone of Rillage Point.

Fig. 5 Syringaxon geniculata sp. nov. 129

Transverse thin section of specimen 15.21 from the David's Stone Limestone of Hele Bay.....x 7

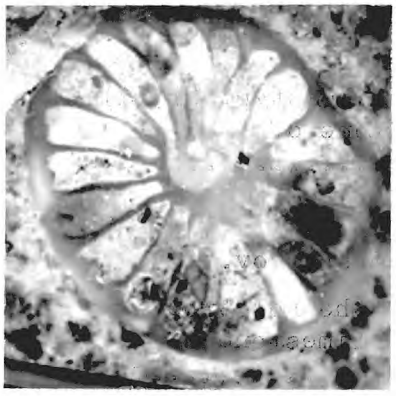
Figs. 6, 8-11. Amplexiphyllum spinum sp. nov. 146

6. Transverse polished section of the holotype (5.18) from the Combe Martin Beach Limestone of the Parlour. .....x 6

10. Longitudinal polished section of the holotype showing the thin, widely spaced and complete tabulae.x 6

11. Transverse polished section of specimen 5.21 from the same locality as the holotype.....x 5

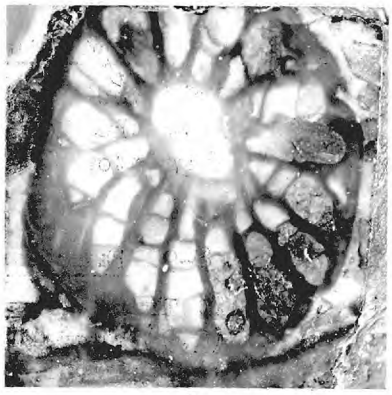
PLATE 32



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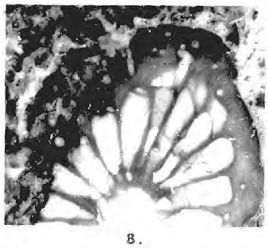
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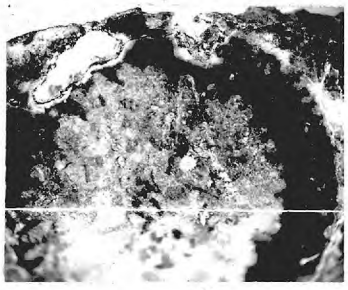
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PLATE 33 CYLINDROPHYLLUM AND STRINGOPHYLLUM

page

Figs. 1-3. *Cylindrophyllum* cf. *elongatum* Simpson 155

1. Transverse thin section of specimen 14.47a from the Jenny Start Limestone of Rillage....x 4
2. Longitudinal thin section of the same specimen.....x 4
3. Transverse thin section of specimen 14.92 from the Jenny Start Limestone of Rillage....x 4

Fig. 4. *Cylindrophyllum stonehousense* (Taylor) 156

Transverse thin section of specimen 14.91 from the Jenny Start Limestone of Rillage Point...x 3.5

Figs.5-6, 9-10. *Cylindrophyllum inequalis* sp. nov. 157

5. Longitudinal thin section of the holotype (10.81) from the Jenny Start Limestone of Widmouth...x 3
6. Transverse section of a paratype (10.82) from the same locality.....x 4.2
9. Longitudinal thin section of specimen (10.80) from the Jenny Start Limestone of Widmouth...x 4
10. Transverse section of the holotype (18.81) from the Jenny Sart Limestone of Widmouth.....x 3

Figs. 7-8. *Stringophyllum carinatum* sp. nov. 181

7. Transverse thin section of specimen 18.23 from the Jenny Start Limestone of Widmouth Point..x 3
8. Transverse thin section of the holotype (14.61) from the Jenny Start Limestone of Rillage...x 3

PLATE 33

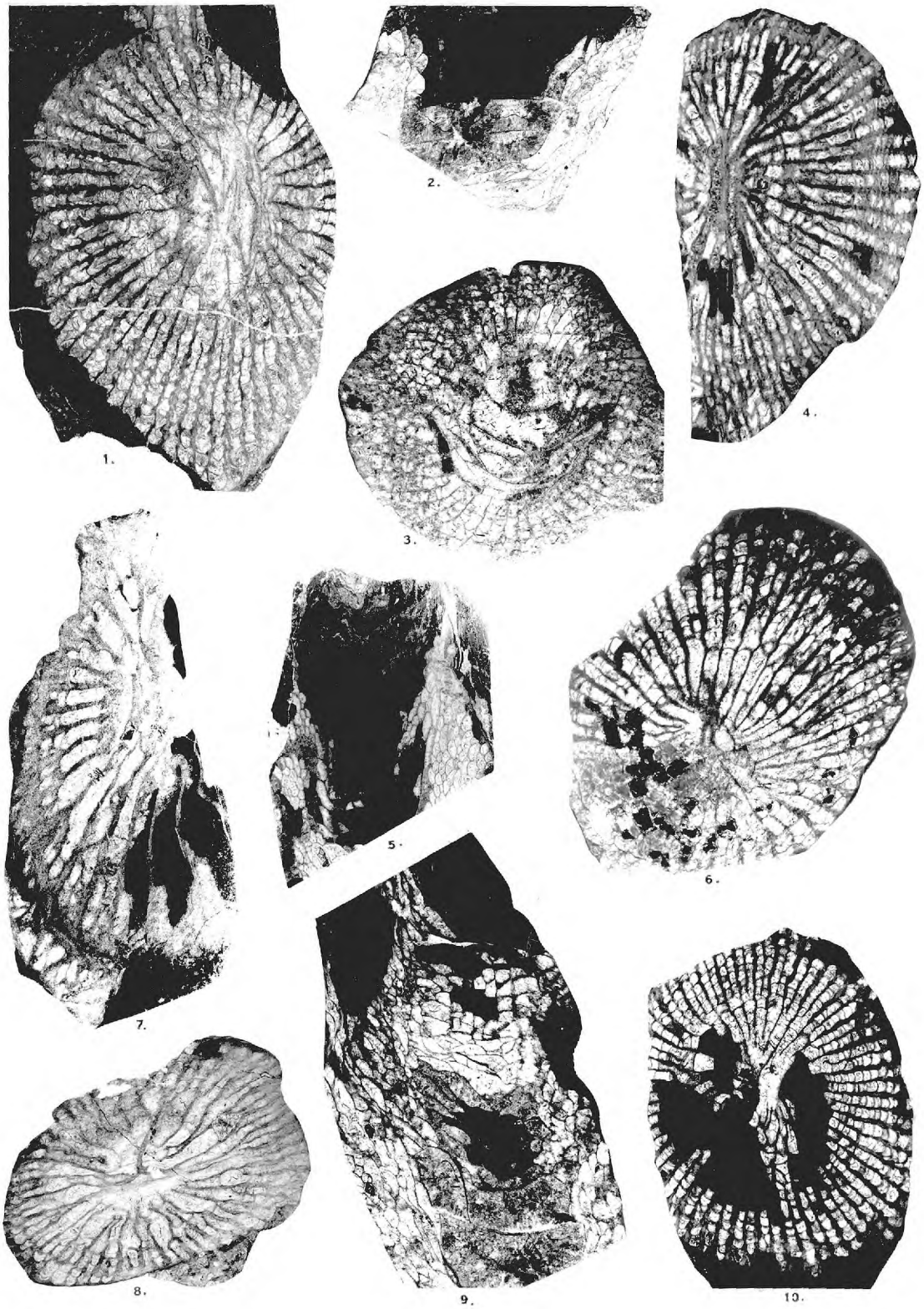


PLATE 34 STRINGOPHYLLUM

page

Figs. 1-3 Stringophyllum carinatum sp. nov. 181

1. Transverse thin section of a paratype (10.77) from the Jenny Start Limestone of Widmouth Quarry.....x 2

2. Transverse thin section of specimen 10.79 from the same locality.....x 2.4

3. Transverse thin section of specimen 14.39 from the Jenny Start Limestone of Rillage Point...x 3

Figs. 4, 6-9. Stringophyllum turbinatum sp. nov. 182

4. Transverse thin section of a paratype (10.88) from the Jenny Start Limestone of Widmouth...x 2

6,7. Transverse thin sections of the holotype specimen 11.1c-d, from the Jenny Start Limestone of Samson's Bay.....x 3

8. Longitudinal thin section of a paratype (18.25b) from the Jenny Start Limestone of Rillage Point; section is just off the median plane.....x 3

9. Transverse thin section of the same specimen.x 3

Fig. 5. Stringophyllum sp.

Transverse section of a specimen (19.11) from the Jenny Start Limestone of Rillage Quarry..x 4

PLATE 34

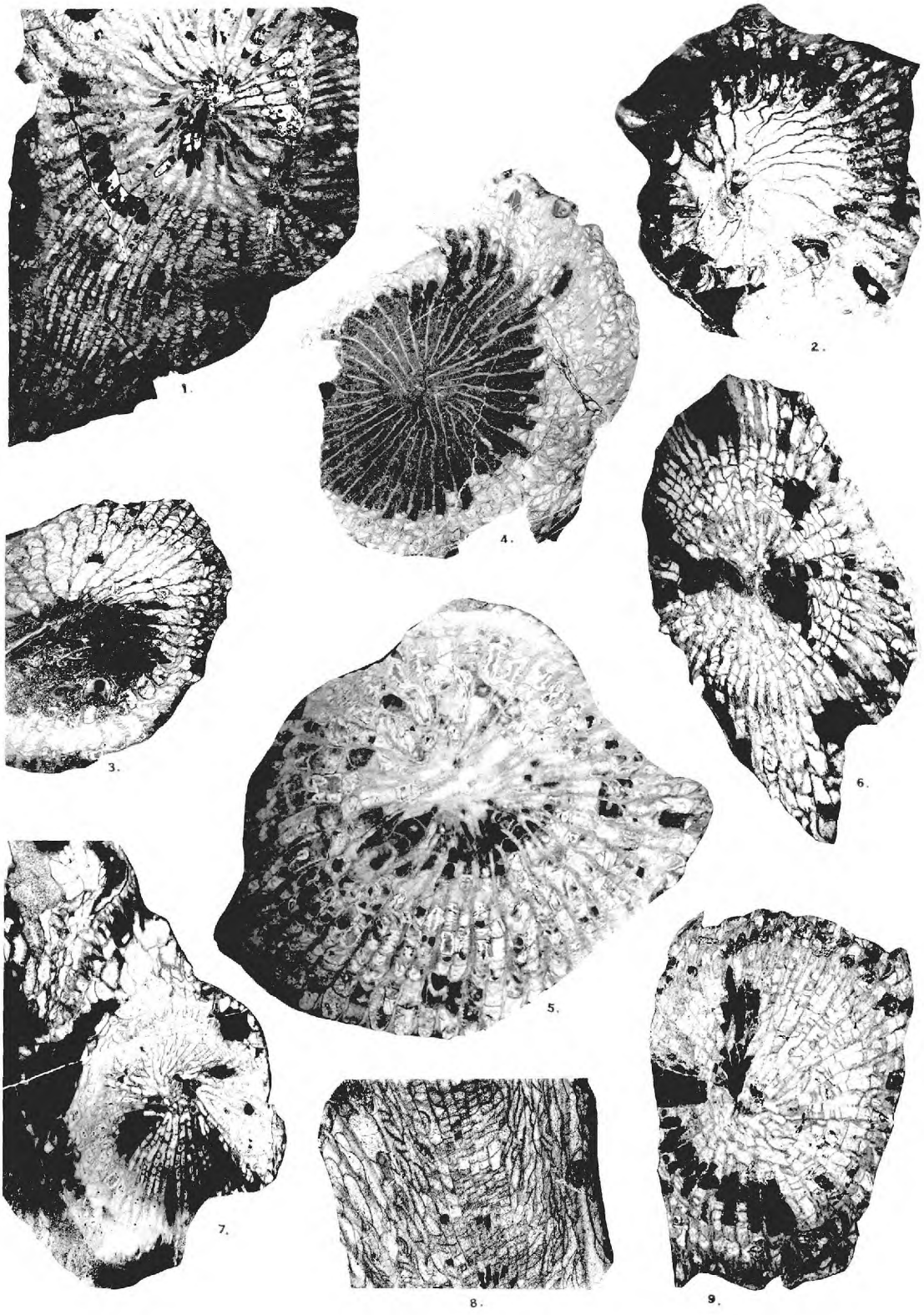


PLATE 35. ENTELOPHYLLUM, ACANTHOPHYLLUM AND STRINGOPHYLLUM

page

Figs. 1-2. *Entelophyllum samsoni* sp. nov. 120

1. Longitudinal thin section of the holotype (11.2) from the Jenny Start Limestone of Samson's Bay..x 3
2. Transverse section of a paratype (14.94a) from the Jenny Start Limestone of Rillage Point..... x 3

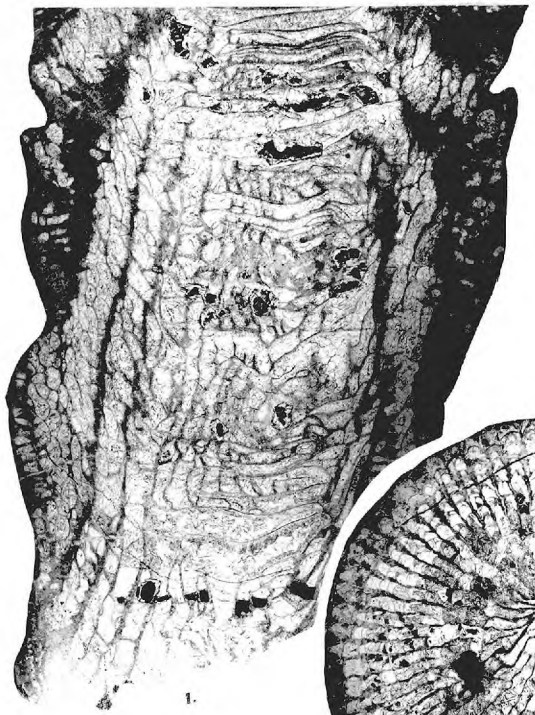
Figs. 3-6. *Acanthophyllum zonatum* sp. nov. 177

3. Longitudinal thin section of the holotype (10.17b) from the Jenny Start Limestone of Widmouth. x 2.5
4. Longitudinal thin section of specimen 18.26b from the Jenny Start Limestone of Rillage Quarry..x 2.5
5. Transverse thin section of the holotype (10.17a) .....x 2.5
6. Transverse thin section of specimen 18.26b...x 2.5

Fig. 7. *Stringophyllum* sp.

Transverse thin section of specimen 14.49 from the Jenny Start Limestone of Rillage Point..... x 3

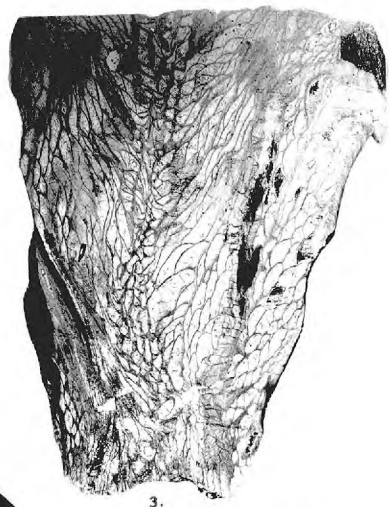
PLATE 35



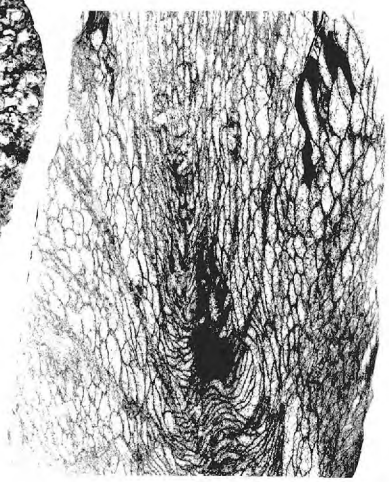
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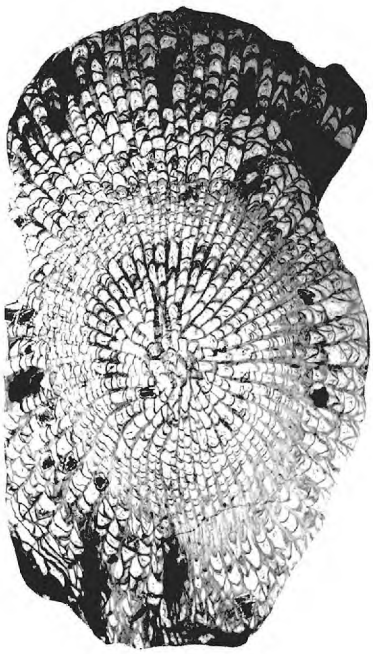
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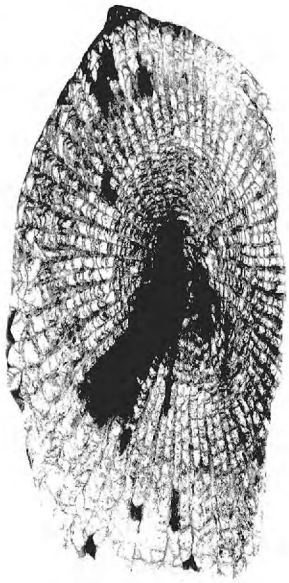
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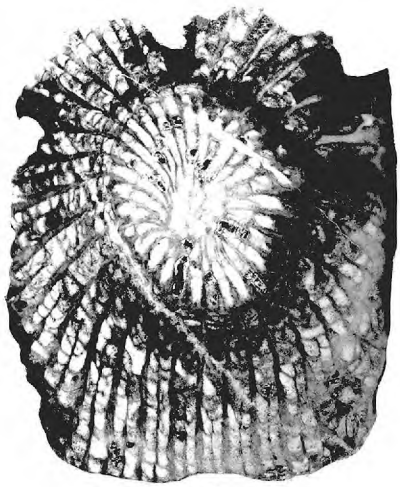
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PLATE 36 CHAETETES

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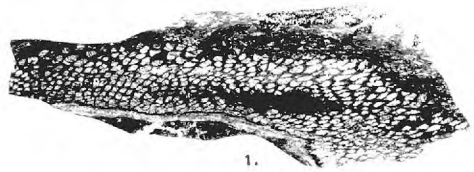
Figs. 1-2, 4-5. *Chaetetes multitabulata* sp. nov. 194

1. Transverse section of the holotype, specimen 6.30 from the David's Stone Limestone of Sandy Cove..x 4
2. Longitudinal thin section of the holotype.....x 4
4. Specimen 15.11 from the David's Stone Limestone of Hillsborough showing colonies of *C. multitabulata* growing on a larger ?bryozoan colony. The specimen also shows penecontemporaneous borings which have been subsequently infilled with calcite and pyrite crystals.....x 4
5. Thin section of specimen 15.29 from the David's Stone Limestone of Hillsborough, showing transverse and longitudinal sections..... x 4

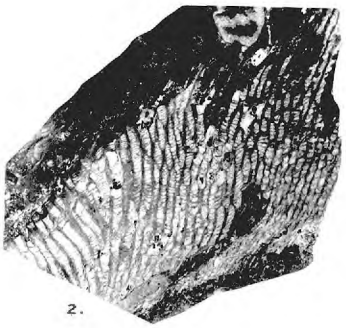
Fig. 3. *Chaetetes* cf. *rotundus* (Lecompte) 195

Longitudinal and partly transverse thin section of specimen 15.1 from the David's Stone Limestone of Hillsborough..... x 4.3

PLATE 36



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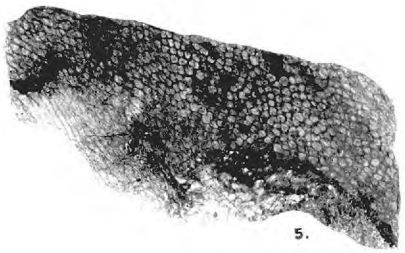
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PLATE 37 THAMNOPORA

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Fig. 1. Thamnopora polymorpha (Goldfuss) 211

Thin section of specimen 15.1.16 showing longitudinal and transverse thin sections; the specimen is part of a large corallum from the David's Start Limestone of Hillsborough.....x 3

PLATE 37



PLATE 38 THAMNOPORA

page

Figs. 1-5 Thamnopora polymorpha (Goldfuss) 211

1. Longitudinal thin section of specimen 14.1 from the David's Stone Limestone to the W. of the Coastguard Station above Hagginton Beach.....x 3

2. Transverse thin section of the same specimen...x 4

3. Longitudinal thin section of specimen 6.50 from the David's Stone Limestone of Sandy Cove. The coral tissue is almost entirely recrystallized.....x 3

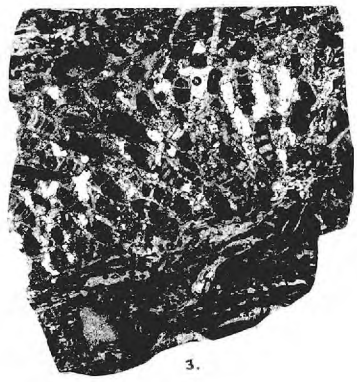
4. Longitudinal thin section of specimen 15.1.15 from the David's Stone Limestone of Hillsborough....x 3

5. Specimen 6.54 showing a broken corallum weathering out from the limestone at David's Stone; a small rugose coral, probably Barrandeophyllum is also weathering out on the same surface.....x 3

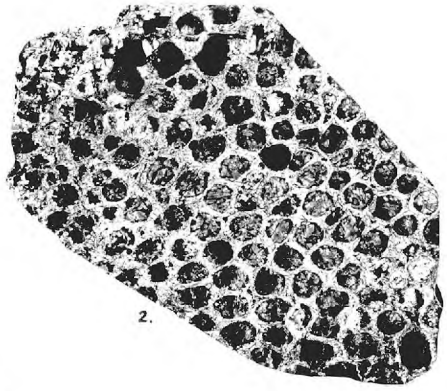
PLATE 38



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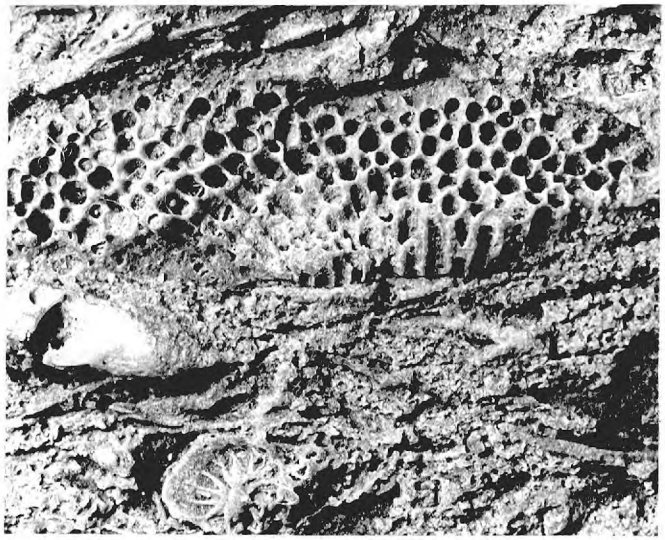
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PLATE 39 THAMNOPORA

Page

Figs. 1-4 Thamnopora tumefacta (Lecompte) 212

1. Longitudinal and partial transverse thin section of specimen 6.28 from the David's Stone Limestone of David's Stone.....x 3
2. Transverse thin section of the same specimen...x 3
3. Transverse thin section of specimen 6.35 from the David's Stone Limestone of David's Stone...x 3
4. Longitudinal section of the same specimen.....x 3

Figs. 5, 7-12 Thamnopora dubia (de Blainville) 210

5. Transverse thin section of specimen 6.27a from the David's Stone Limestone of Sandy Cove.....x 3
7. Longitudinal thin section of specimen 14.89 from the Jenny Start Limestone of Rillage Quarry x 3
8. Transverse section of specimen 6.27 from the David's Stone Limestone of David's Stone.....x 3
9. Longitudinal thin section of specimen 10.32 from the Jenny Start Limestone of Widmouth Quarry x 3
10. Longitudinal thin section of specimen 14.73 from the Jenny Start Limestone of Rillage Quarry....x 3
11. Transverse section of specimen 13.71 from the Jenny Start Limestone of Hagginton Beach.....x 3
12. Longitudinal and partial transverse thin section of the same specimen showing the strong development of spines in the area of bifurcation.....x 3

Fig. 6 Thamnopora ?dubia (de Blainville) 210

Polished longitudinal section of specimen 9.8 from the Rillage Limestone of Smallmouth. The coral structure is entirely recrystallized.....x 3

PLATE 39



PLATE 40 THAMNOPORA

Page

Figs. 1-4, 7, 8 Thamnopora cronigera (d'Orbigny) 209

1. Longitudinal and partial transverse thin section of specimen 10.98 from the Jenny Start Limestone of Widmouth Quarry.....x 3
2. Longitudinal thin section of specimen 10.35a from the same locality.....x 3
3. Longitudinal, and 4. Transverse thin sections of specimen 19.8 from the Jenny Start Limestone of Rillage Point.....x 3
7. Transverse thin section of specimen 10.35 from the Jenny Start Limestone of Widmouth Quarry.....x 3
8. Longitudinal thin section of specimen 14.98 from the Jenny Start Limestone of Rillage Point x 3

Figs. 5-6, 9 Thamnopora boloniensis (de Blainville) 206

5. Longitudinal thin section of specimen 6.53 from the David's Stone Limestone of David's Stone.....x 3
6. Longitudinal and partial transverse thin section of specimen 6.52 from the David's Stone Limestone of David's Stone.....x 3
9. Longitudinal and partial transverse thin section of specimen 14.23 from the Jenny Start Limestone of Rillage Quarry.....x 3

PLATE 40

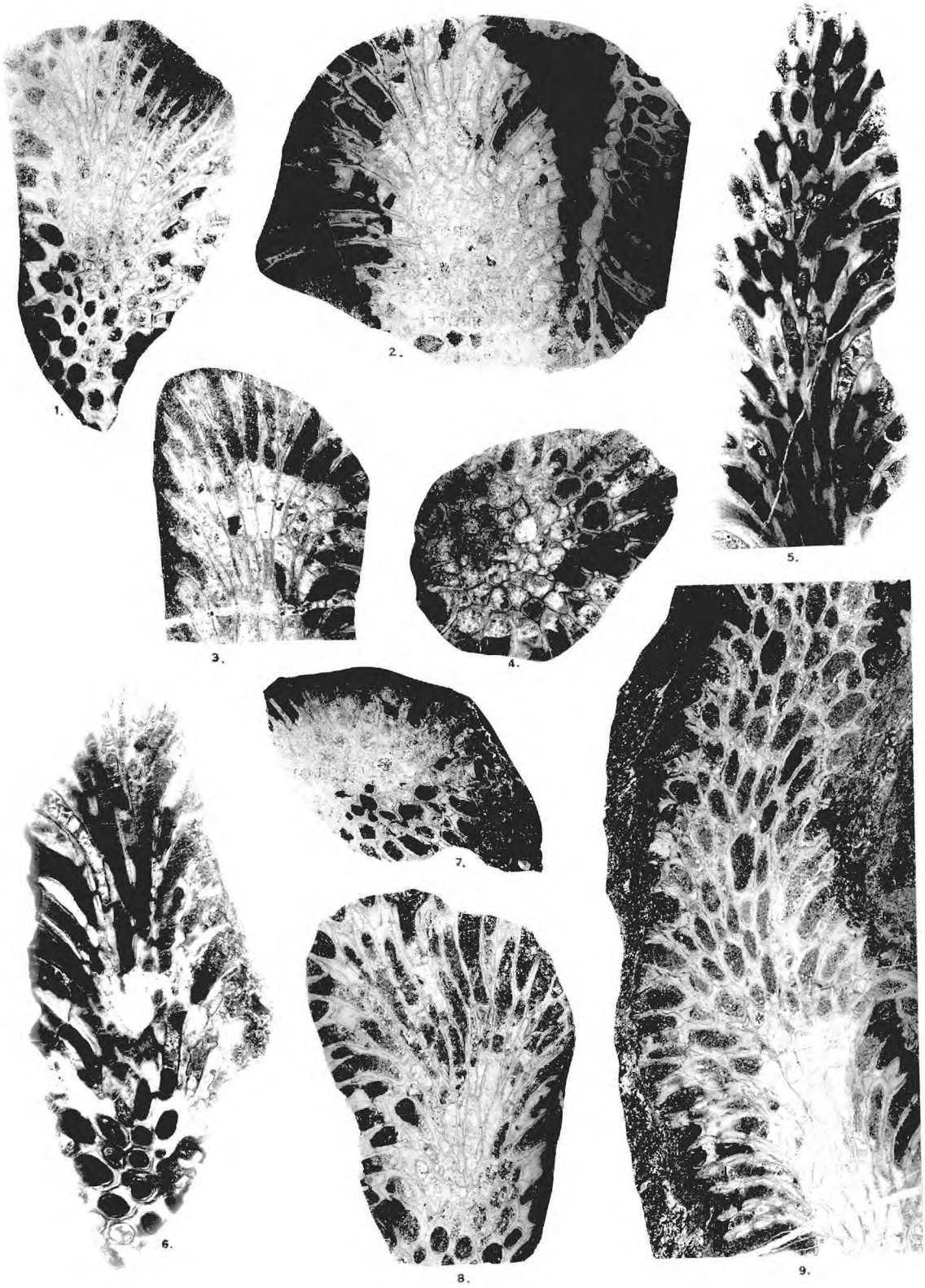


PLATE 41 THAMNOPORA

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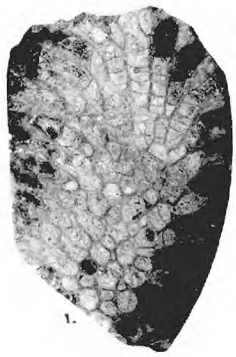
Figs. 1-2, 6-7 Thamnopora irregularis Lecompte 1939 211

1. Transverse and partial longitudinal thin section of specimen 13.82 from the Jenny Start Limestone of Hagginton Beach.....x 3
2. Longitudinal section of the same specimen....x 3
6. Oblique thin section of specimen 14.97 from the Jenny Start Limestone of Rillage Point...x 3
7. Oblique thin section of specimen 10.94 from the Jenny Start Limestone of Widmouth Quarry.x 3

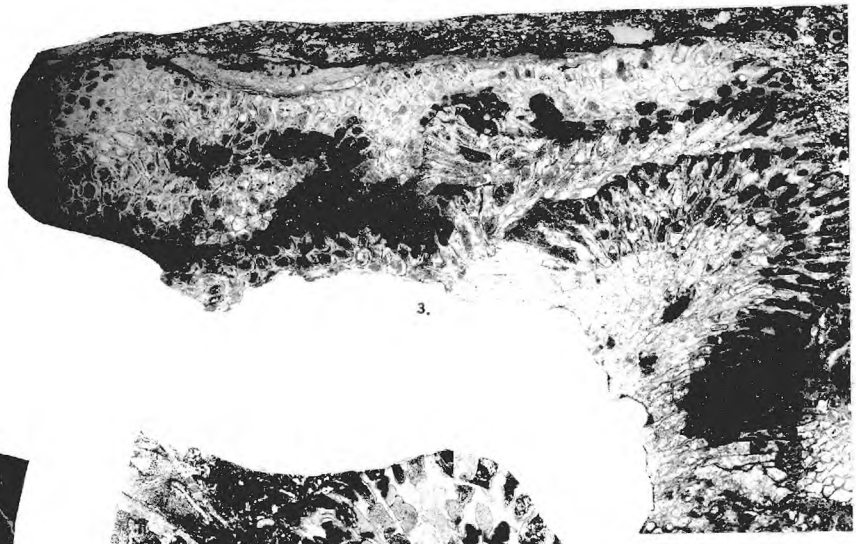
Figs. 3-5 Thamnopora cervicornis (de Blainville) 208

3. Thin section of specimen 5.34 from the Combe Martin Beach Limestone of The Parlour. The section shows both longitudinal and transverse sections.....x 3
4. Longitudinal thin section of specimen 8.5 from the Rillage limestone of Smallmouth.....x 3
5. Transverse polished section of specimen 3.50 from the Combe Martin Beach Limestone of The Parlour. (Alveolites suborbicularis is seen overgrowing the Thamnopora colony).....x 3

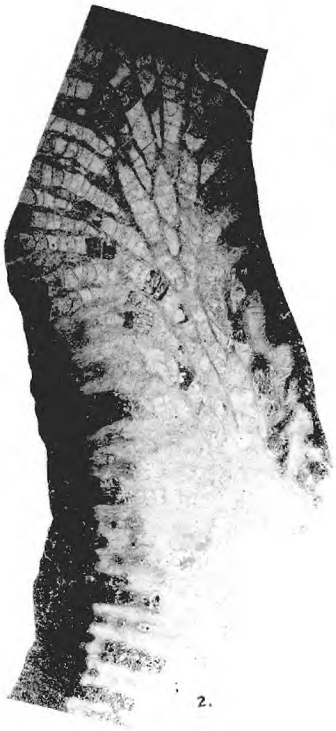
PLATE 41



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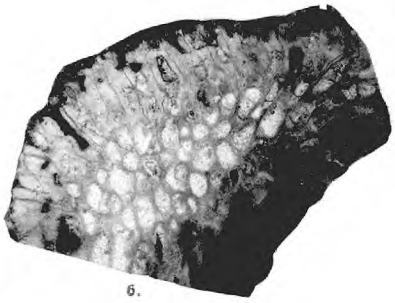
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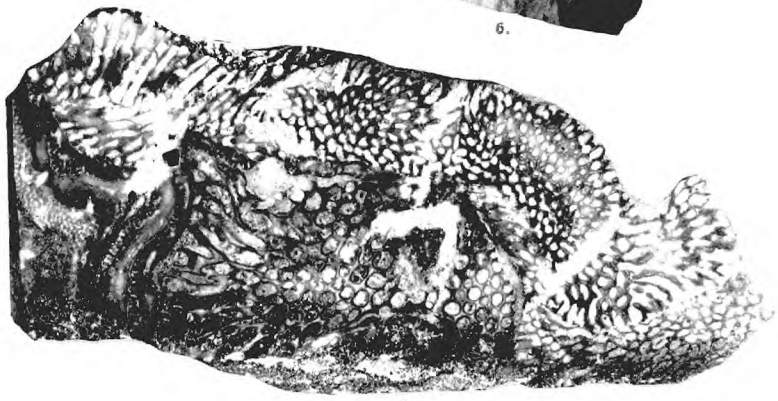
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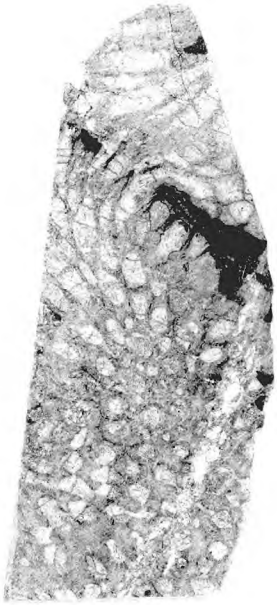
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PLATE 42 THAMNOPORA

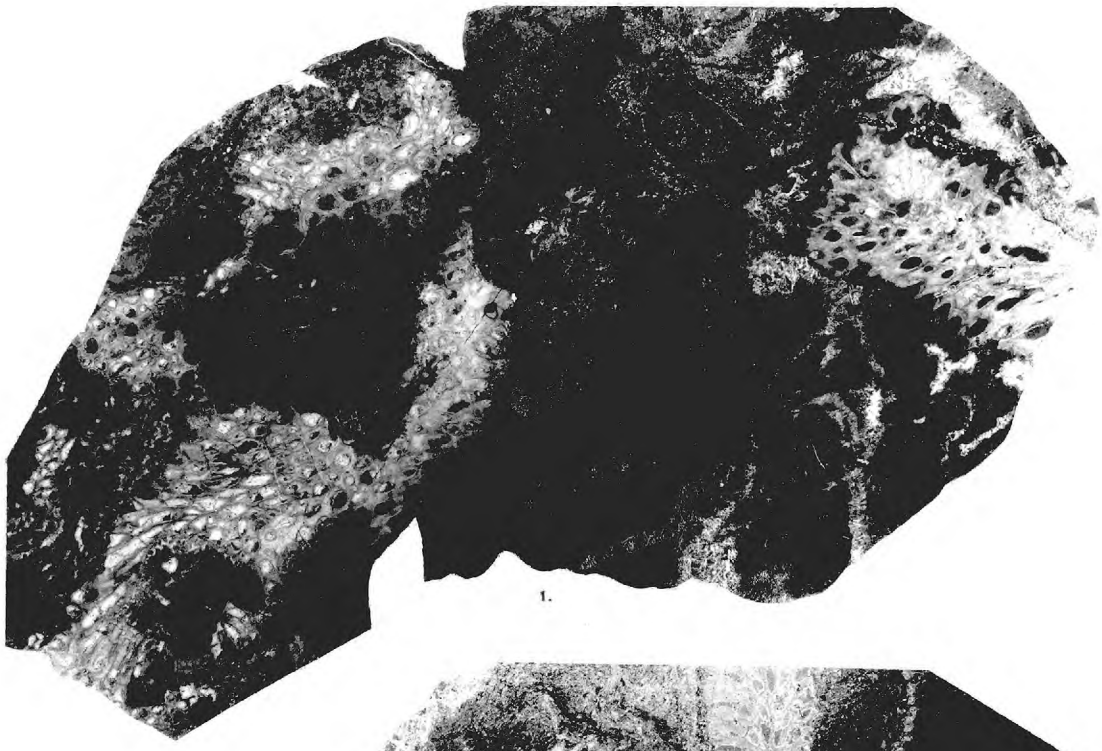
page

Figs. 1-2. *Thamnopora irregularis* Lecompte 211

1. Thin section through specimen 7.21 from the Jenny Start Limestone of the Old Coast Road, near Combe Martin.....x 2.5

2. Thin section through specimen 7.13 from the same locality.....x 2.5

PLATE 42



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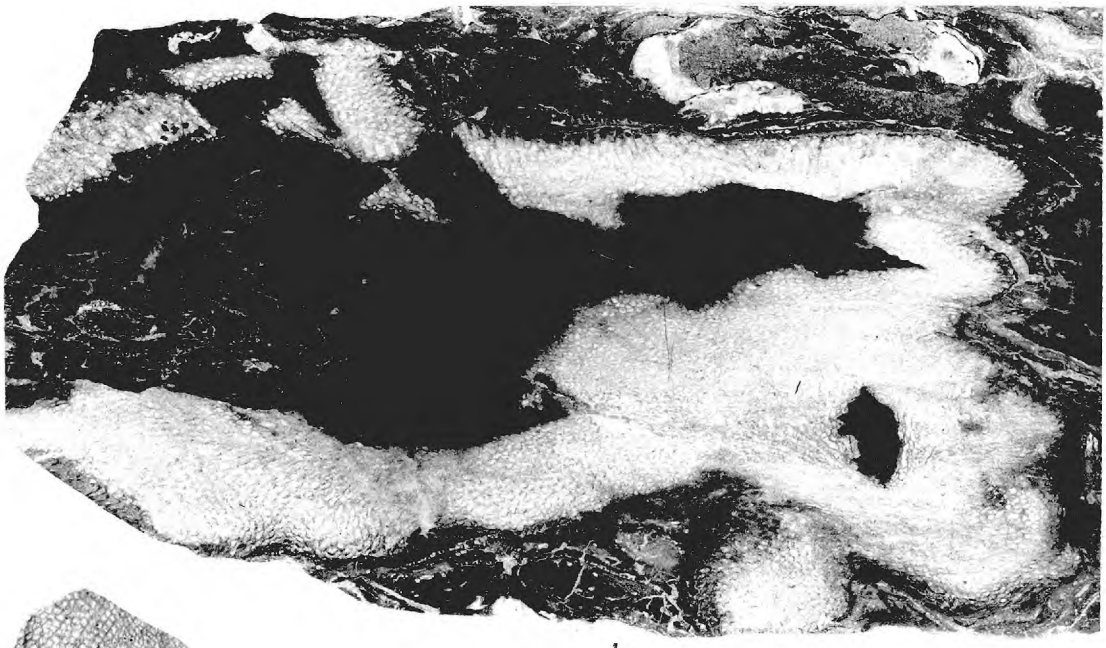
PLATE 43 ALVEOLITES

Page

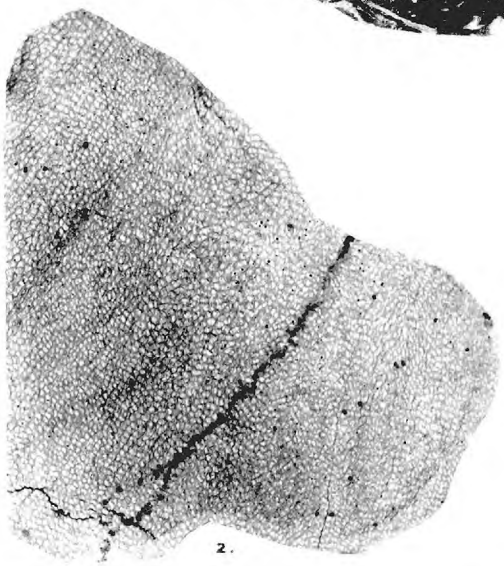
Figs. 1-4 *Alveolites suborbicularis* Lamarck 197

1. Transverse thin section of specimen 20.7 from the Jenny Start Limestone of Widmouth Quarry.....x 1.8
2. Transverse thin section of specimen 15.12 from the David's Stone Limestone of Broadstrand Beach, Hillsborough.....x 1.5
3. Longitudinal thin section of specimen 20.7 (see also Fig.1) from the Jenny Start Limestone of Widmouth Quarry.....x 1.5
4. Transverse thin section of specimen 15.33 from the David's Stone Limestone of Hillsborough.....x 1.5

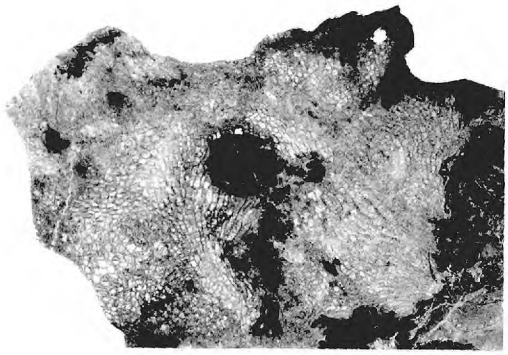
PLATE 43



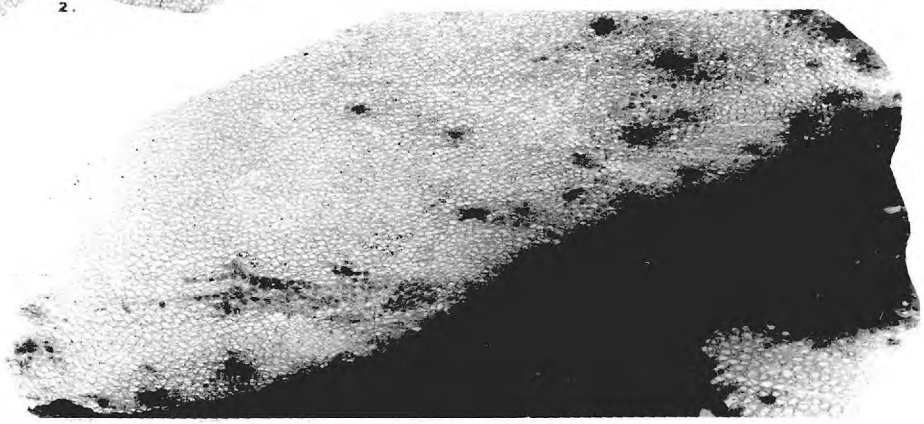
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PLATE 44 ALVEOLITES

Page

Alveolites suborbicularis Lamarck 197

Photograph of the exterior surface of a large corallum - specimen 18.59 from the Jenny Start Limestone of Rillage Quarry.....x 0.6

PLATE 44



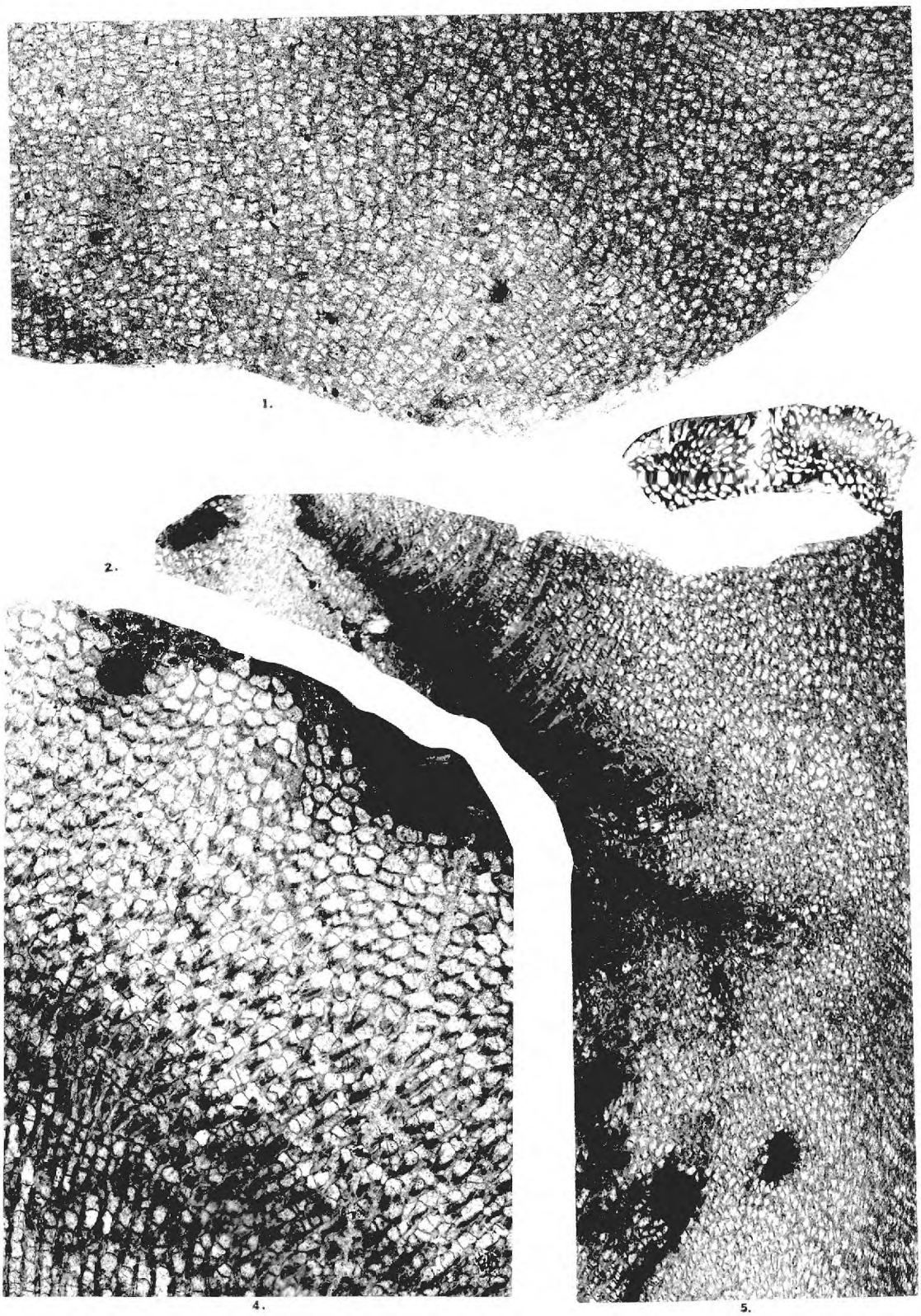
PLATE 45 ALVEOLITES

Page

Figs. 1-5 *Alveolites suborbicularis* Lamarck 197

1. Transverse and partly longitudinal thin section of specimen 15.33 from the David's Stone Limestone of Broadstrand Beach, Hillsborough.....x 4
2. Polished longitudinal section of specimen 3.50 from the Combe Martin Beach Limestone of The Parlour.....x 2.5
3. Polished transverse section of the same specimen x 2.5
4. Transverse and longitudinal thin section of specimen 10.76 from Jenny Start Limestone of Widmouth Quarry.....x 4
5. Transverse and longitudinal thin section of specimen 15.34 from the David's Stone Limestone of Broadstrand Beach, Hillsborough.....x 4

PLATE 45



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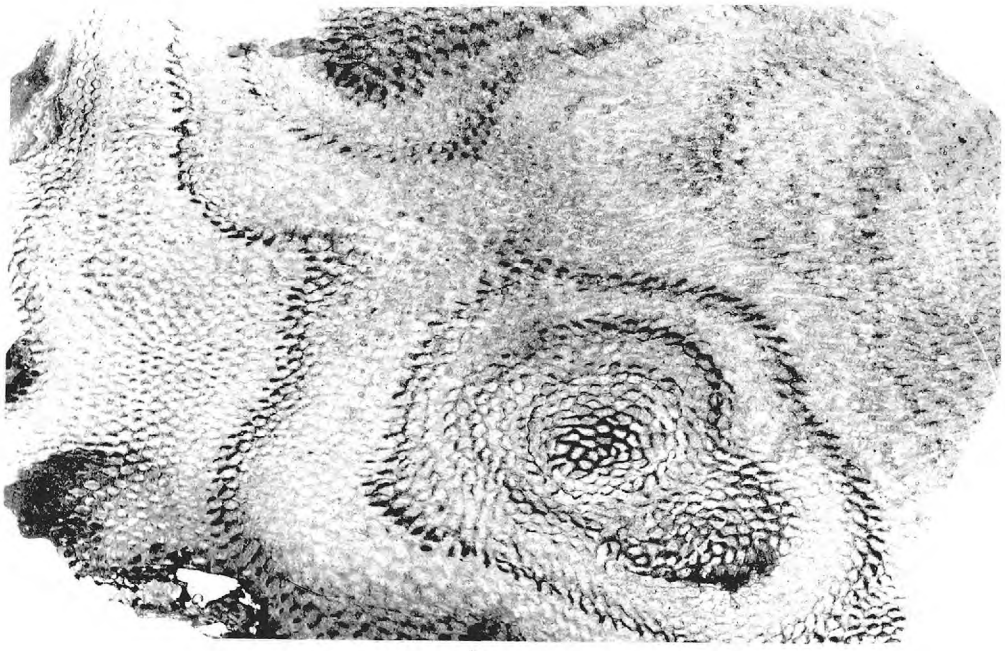
PLATE 46 ALVEOLITES

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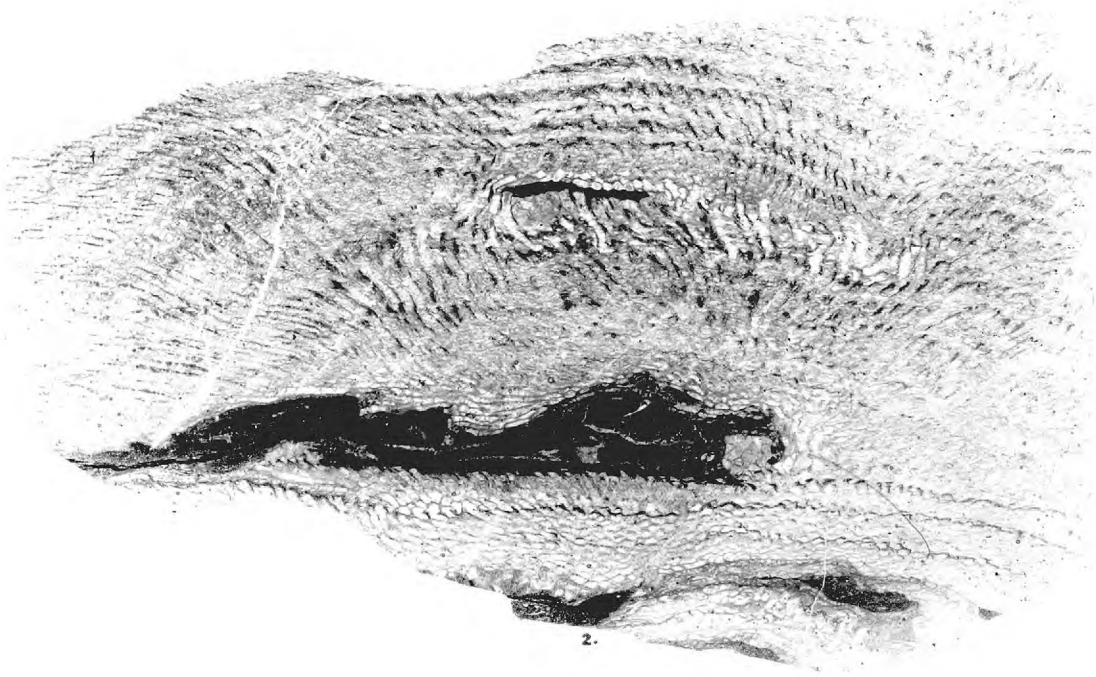
Figs. 1-2 *Alveolites suborbicularis* Lamarck forma *gemmans* 198

1. Transverse thin section of specimen 14.29 from the Jenny Start Limestone of Rillage Quarry.....x 2.5
2. Longitudinal section of the same specimen.....x 2.5

PLATE 46



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PLATE 47 ALVEOLITES AND THAMNOPORA

Page

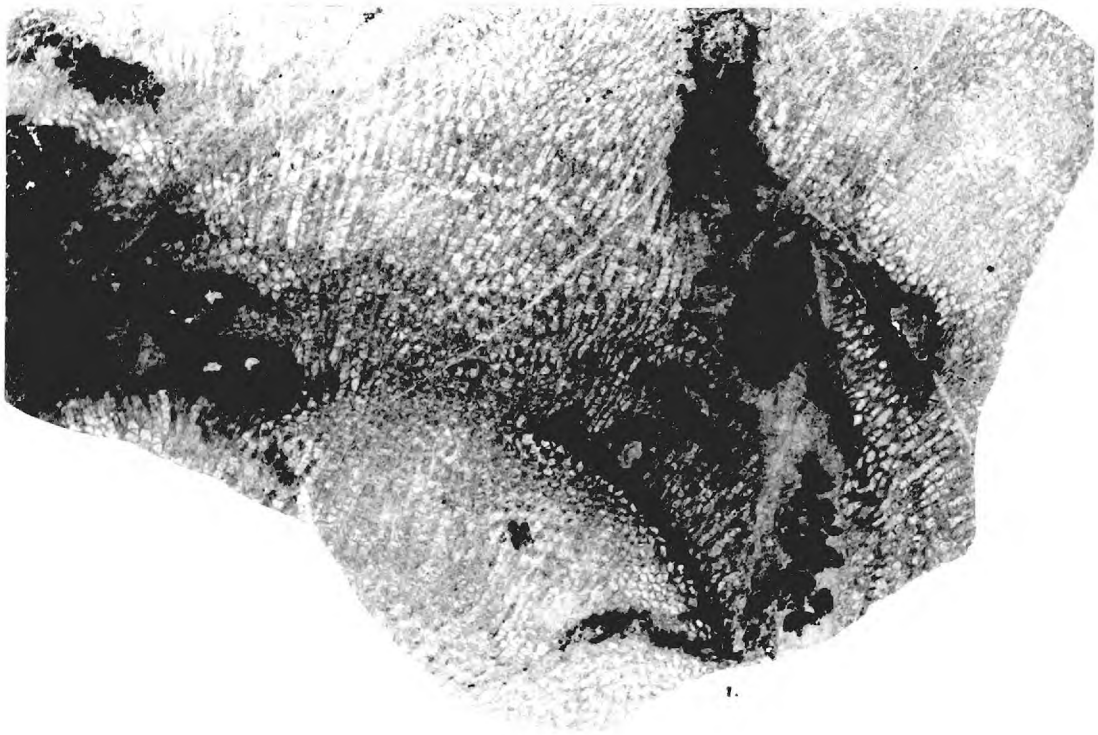
Figs. 1-2 *Alveolites multiporiferatus* Lecompte 199

1. Longitudinal thin section of specimen 18.13 from the Jenny Start Limestone of Widmouth Quarry.....x 3

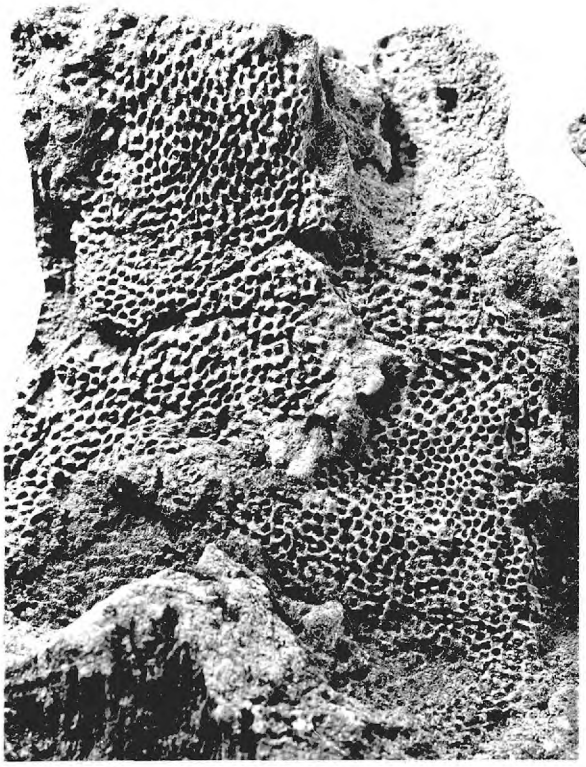
2. The external surface of the same specimen showing the form of the calices with the occasional break-down of the walls between adjacent corallites.....x 2.4

Fig 3 *Thamnopora ?boloniensis* (de Blainville) 206

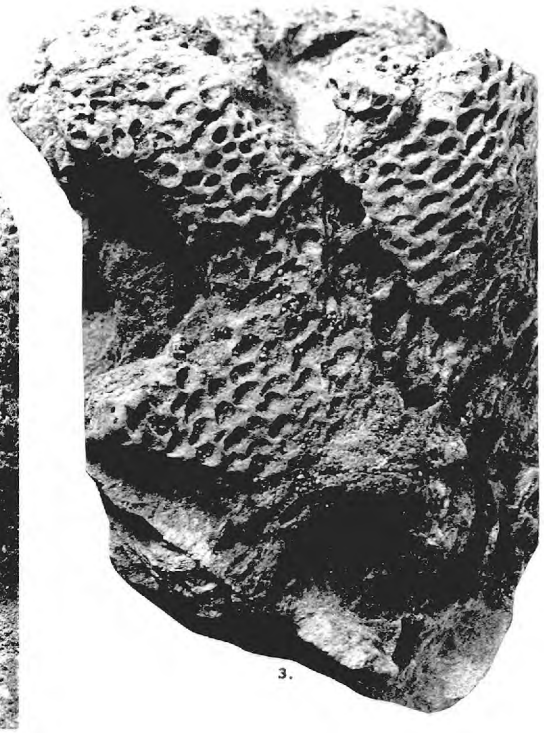
Exterior surface of a corallum which has been distorted by tectonic pressure; from the Jenny Start Limestone of Widmouth Head.....x 2.4



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PLATE 48 COENITES AND CHAETETES

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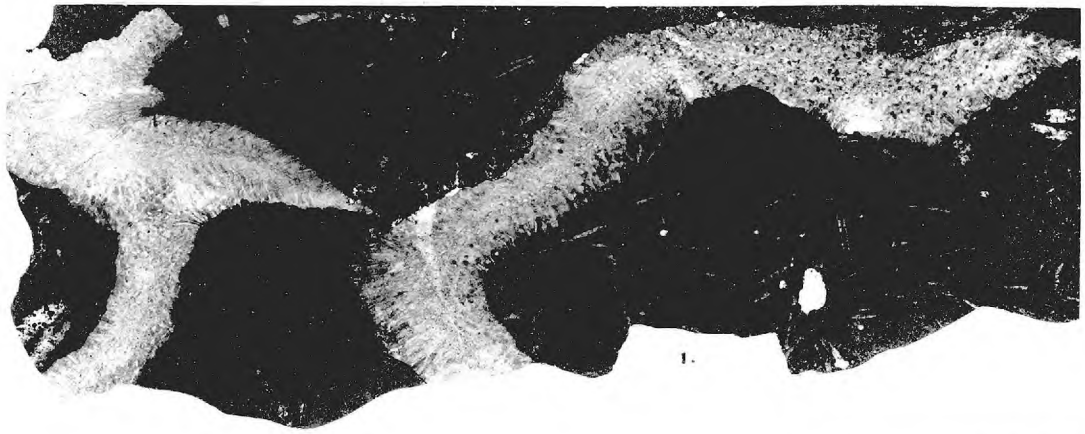
Figs. 1-2, 5 *Coenites escharoides* (Steininger) 203

1. Longitudinal thin section through specimen 13.139 from the Jenny Start Limestone of Hagginton Beach.....x 3
2. Longitudinal thin section of specimen 18.7 from the Jenny Start Limestone of Widmouth Head.....x 3
5. Longitudinal thin section of specimen 10.93 from the Jenny Start Limestone of Widmouth Head.....x 3

Figs. 3-4 *Chaetetes lonsdalei* Etheridge and Foord 193

3. Transverse section of specimen 15.37 from the David's Stone Limestone of Hele Bay.....x 3
4. Longitudinal section of the same specimen.....x 3

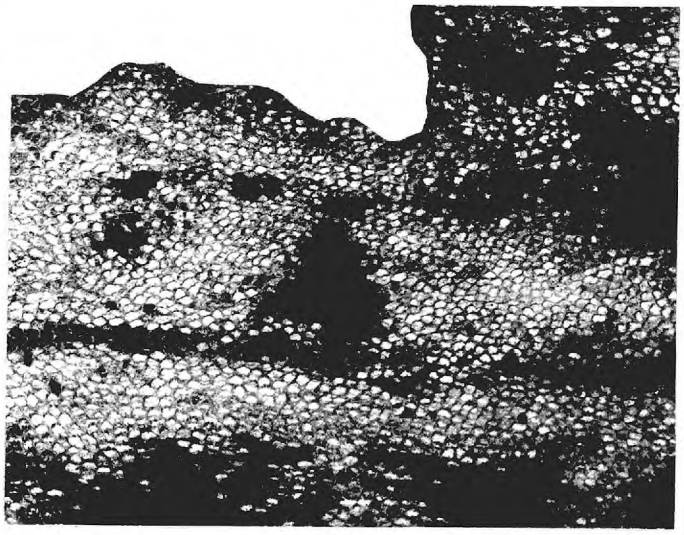
PLATE 48



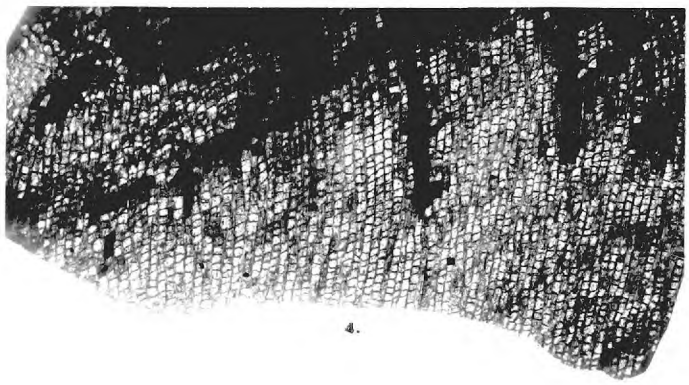
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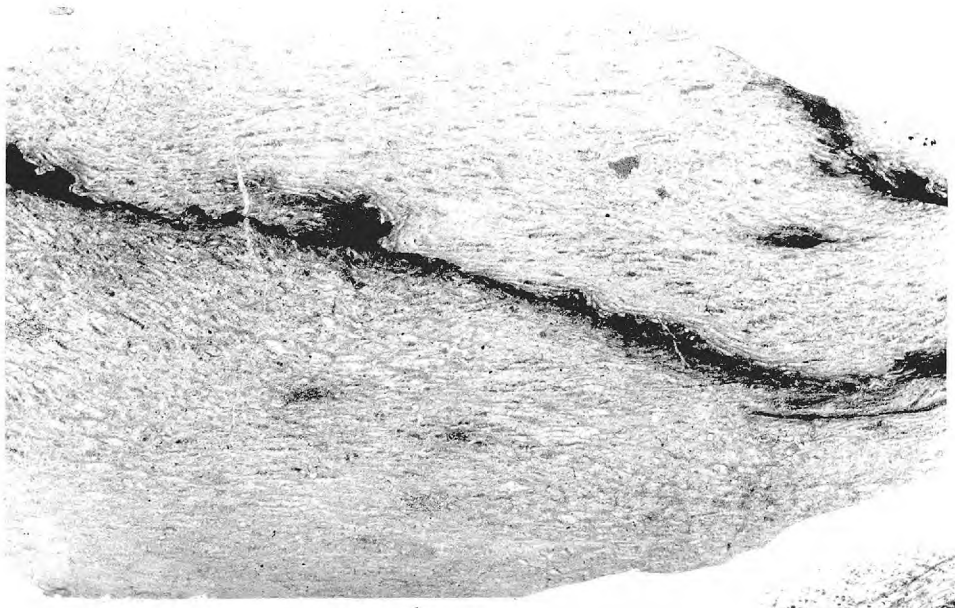
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PLATE 49 COENITES

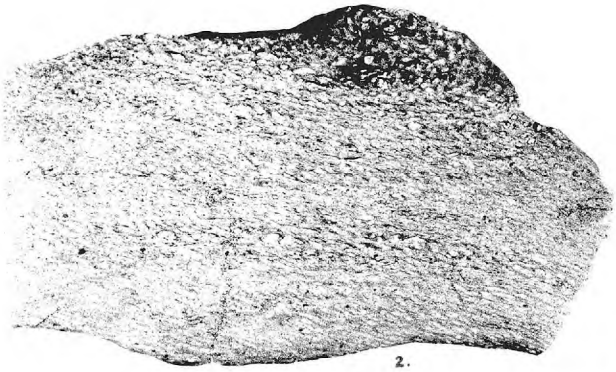
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Figs. 1-4 *Coenites gradatus* Lecompte 204

1. Longitudinal and partly transverse thin section of specimen 15.39 from the David's Stone Limestone of Hele Bay.....x 3
2. Longitudinal thin section of specimen 15.36 from the David's Stone Limestone of the same locality.x 3
3. Transverse and longitudinal thin section of specimen 15.27 from the David's Stone Limestone of Broadstrand Beach (Hillsborough).....x 3
4. Transverse and partly longitudinal thin section of specimen 15.35 from the David's Stone Limestone of Broadstrand Beach (Hillsborough). The specimen shows penecontemporaneous borings.....x 2.5



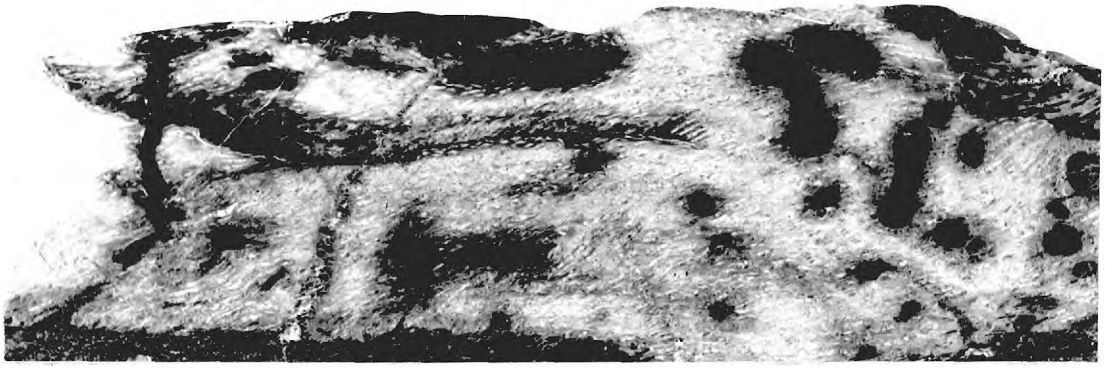
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PLATE 50 COENITES

page

Figs. 1-4. *Coenites* sp. 204

1. Thin section through the corallum of specimen 11.10 from the Jenny Start Limestone of Samson's Beach.....x 1.5

2-4. Enlargements of the same specimen showing details of the form of the calice, the septal spines (fig.4) and the axial and peripheral thickening.....x 6

PLATE 50



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PLATE 51 ALVEOLITES, AULOPORA AND PLEURODICTYUM

Figs.		Page
1, 4	*Alveolites obtortus* Lecompte	200

1. Transverse and longitudinal thin section through specimen 10.50 from the Jenny Start Limestone of Widmouth Quarry.....x 3

4. Longitudinal and transverse thin section of specimen 18.12 from the same locality.....x 3

Fig. 2 *Aulopora tubaeformis* Goldfuss 213

Weathered external surface of specimen from the David's Stone Limestone of David's Stone...x 3

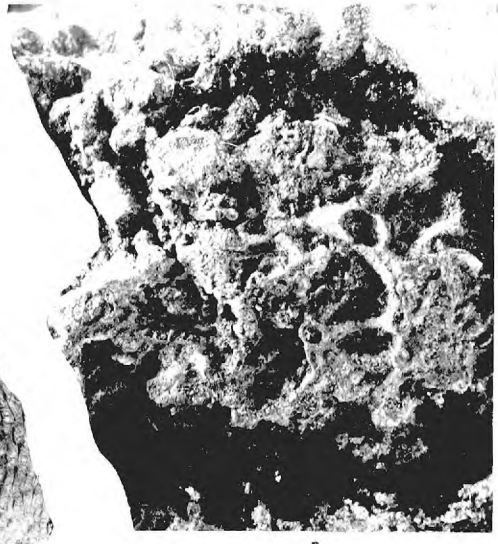
Fig. 3 *Pleurodictyum* sp. 213

Specimen R.6421 in the collection of the British Museum (Nat.Hist.) showing a mould of the coral. The specimen is probably from the Combe Martin Beach Limestone of Hagginton Beach.....x 6

PLATE 51



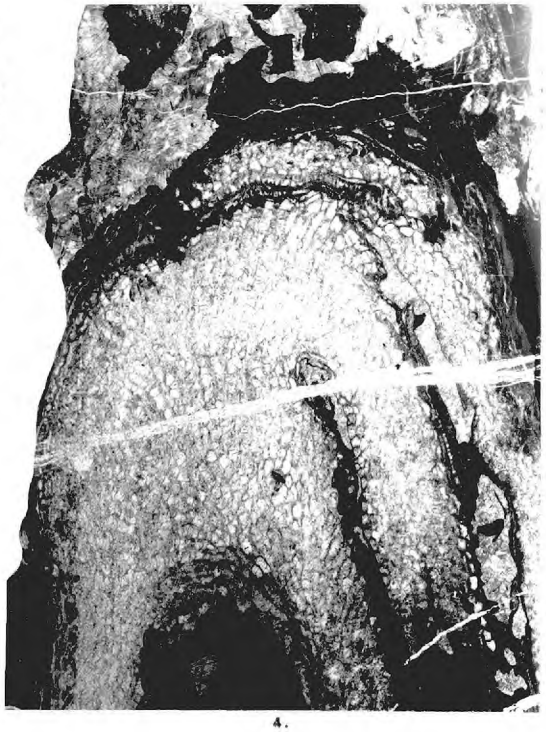
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PLATE 52 COENITES and AULOPORA

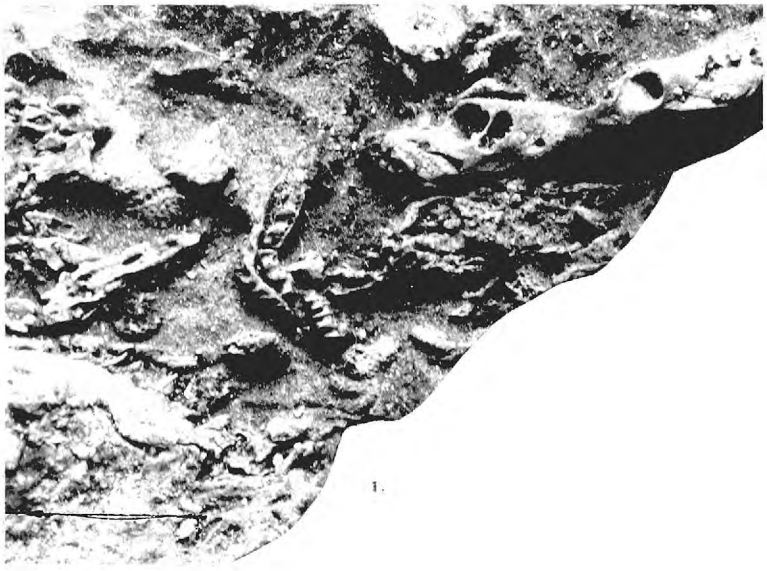
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Fig. 1 Aulopora tubaeformis Goldfuss 113

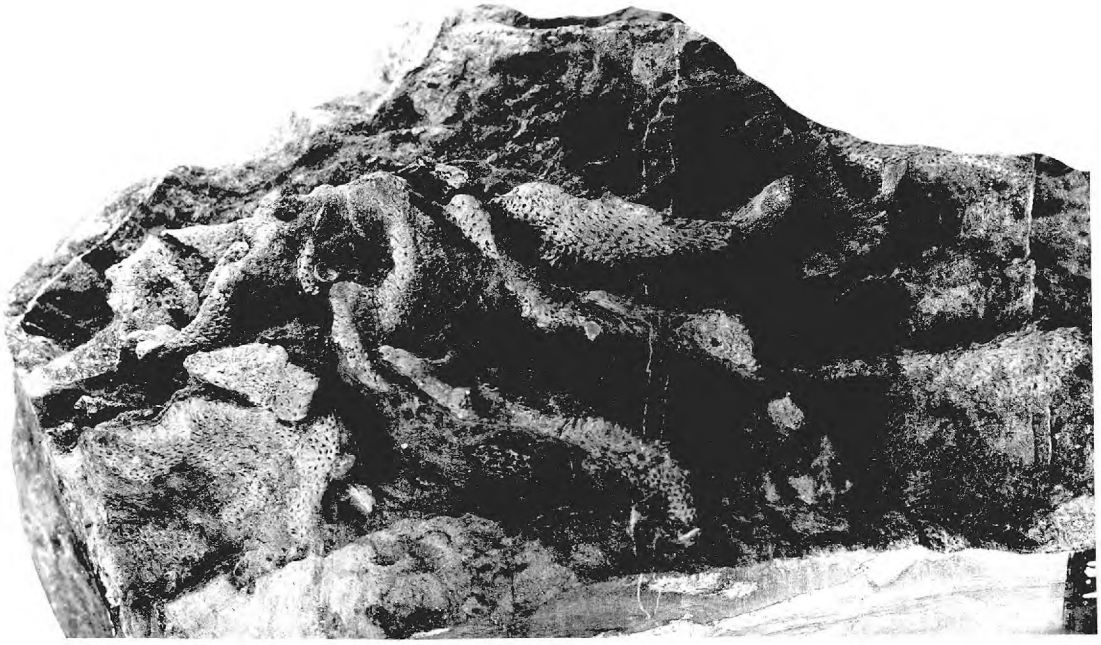
A severely eroded fragment showing two corallites from the David's Stone Limestone of David's Stone.x 5

Fig. 2 Coenites escharoides (Steininger) 203

Exterior surface of several coralla showing their lamellar form and the slit-like nature of the calices.....x 1.5



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2.