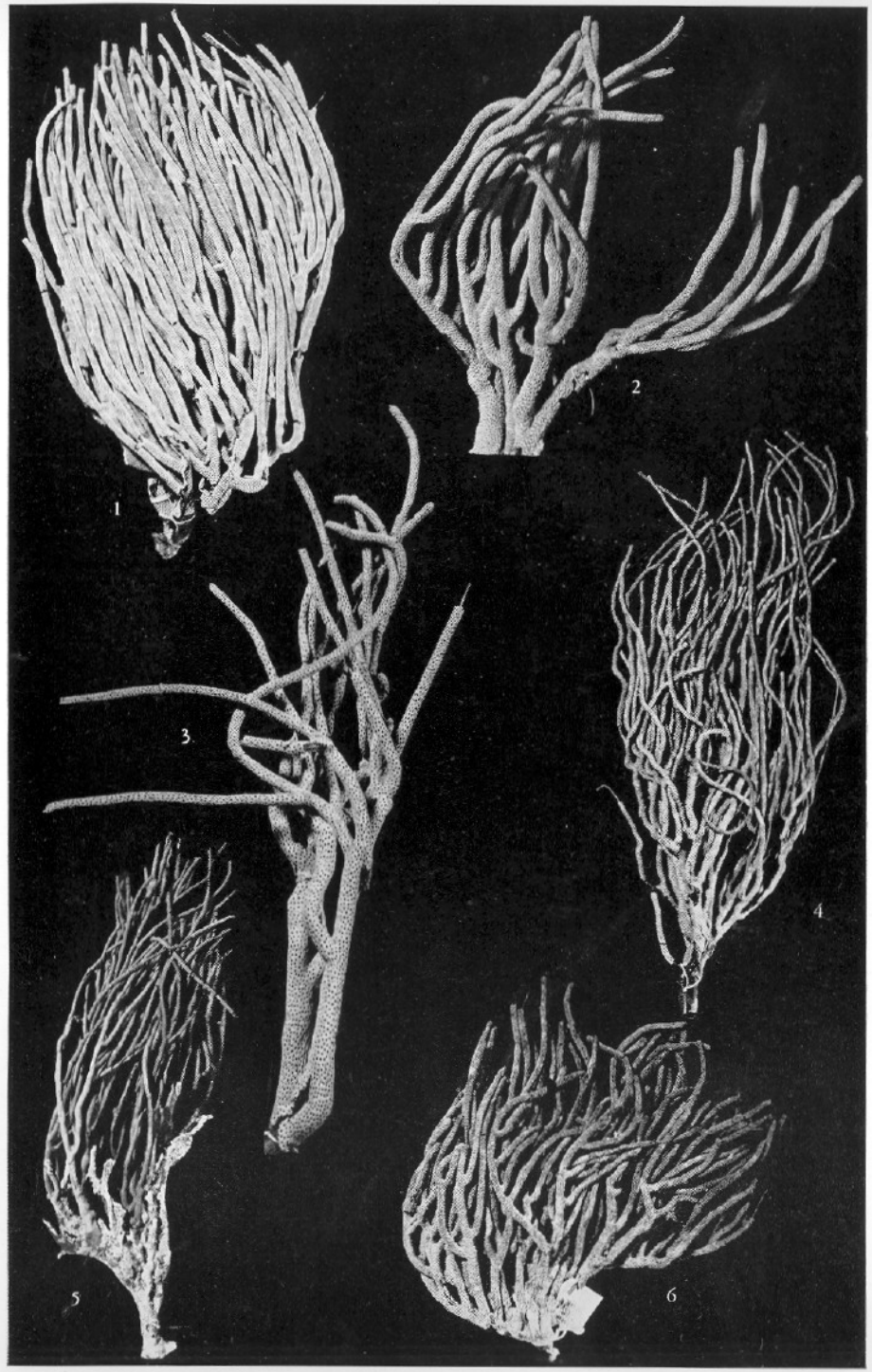


PLATE I

1. *Pseudoplexaura porosa* (Houttuyn), stout form, from the Florida Keys. Height, 45 cm. (USNM 50497)
2. *Pseudoplexaura porosa* (Houttuyn), typical form, from Bahamas. Height, 28 cm. (14386)
3. *Pseudoplexaura wagenaari* (Stiasny), from Florida Keys. Height, 30 cm. (50761)
4. *Eunicea* (*Eunicea*) *palmeri* spec. nov., from Florida Keys. Height, 50 cm. (50760)
5. *Plexaura homomalla* (Esper), forma *kükenthali* Moser, from the Florida Keys. Height, 39 cm. (50477)
6. *Plexaura homomalla* (Esper), typical form, from Curaçao. Height, 25 cm. (50308)

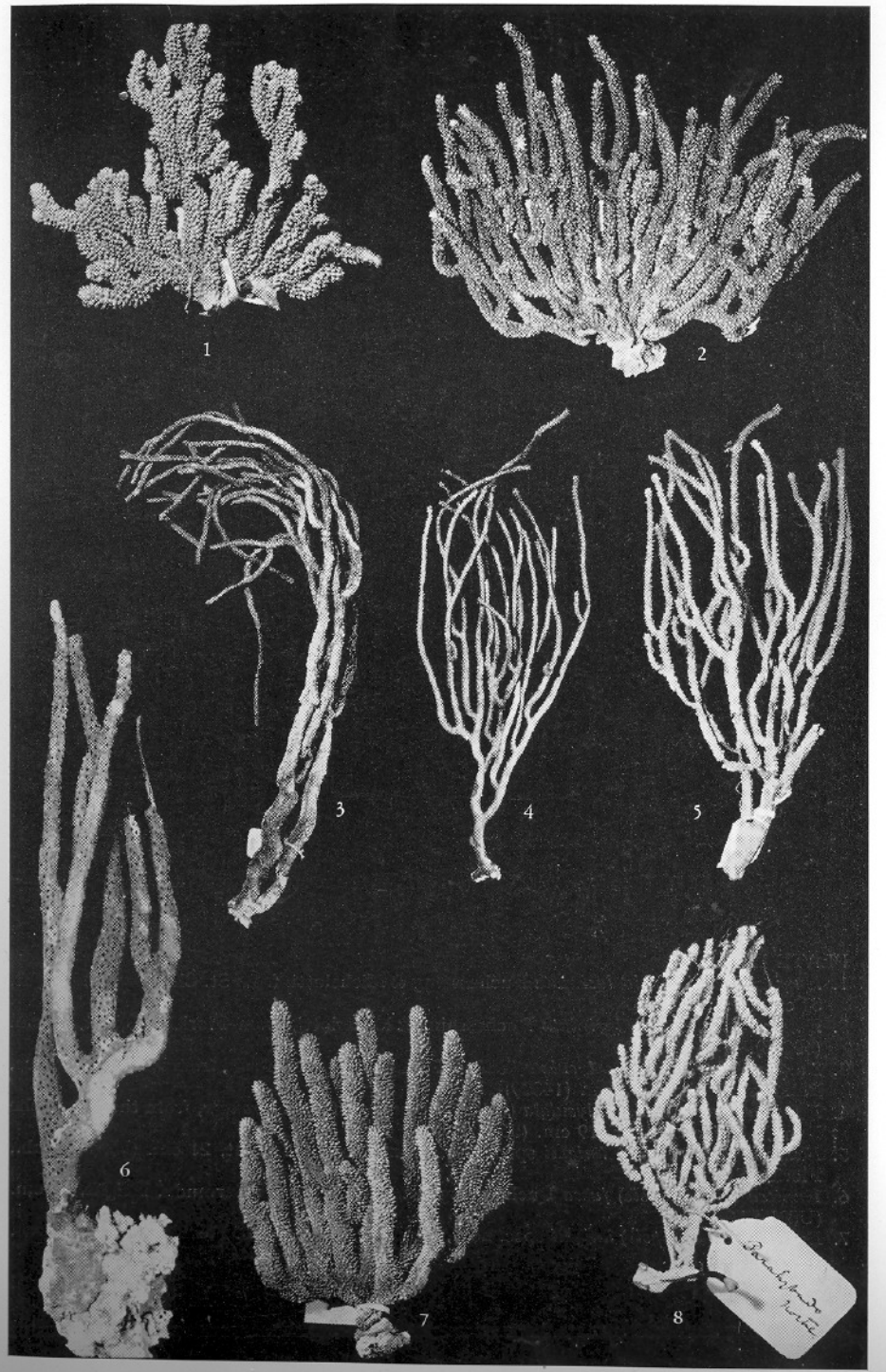


PLATE II

1. *Eunica* (*Eunicea*) *mammosa* Lamouroux, from the Bahamas. Height, 16 cm. (USNM 14367)
2. *Eunicea* (*Eunicea*) *succinea* (Pallas), typical form, from St. Barthélemy. Height, 19 cm. (50318)
3. *Eunicea* (*Euniceopsis*) *asperula* Milne Edwards & Haime, from Key West, Fla. Height, 55 cm. (50752)
4. *Eunicea* (*Eunicea*) *palmeri* spec. nov., from Biscayne Bay, Fla. Height, 30 cm. (Holotype, 50747)
5. *Eunicea* (*Eunicea*) *succinea* (Pallas), forma *plantaginea* (Lamarck), from St. John. Height, 30 cm. (50266)
6. *Eunicea* (*Euniceopsis*) *tourneforti* Milne Edwards & Haime, forma *atra* Verrill, from Bermuda. Height, 22 cm. (50080)
7. *Eunicea* (*Euniceopsis*) *tourneforti* Milne Edwards & Haime, typical form, from the Dry Tortugas. Height, 28 cm. (USNM 50275)
8. *Muriceopsis sulphurea* (Donovan), from Brazil. Height 11 cm. (5285)

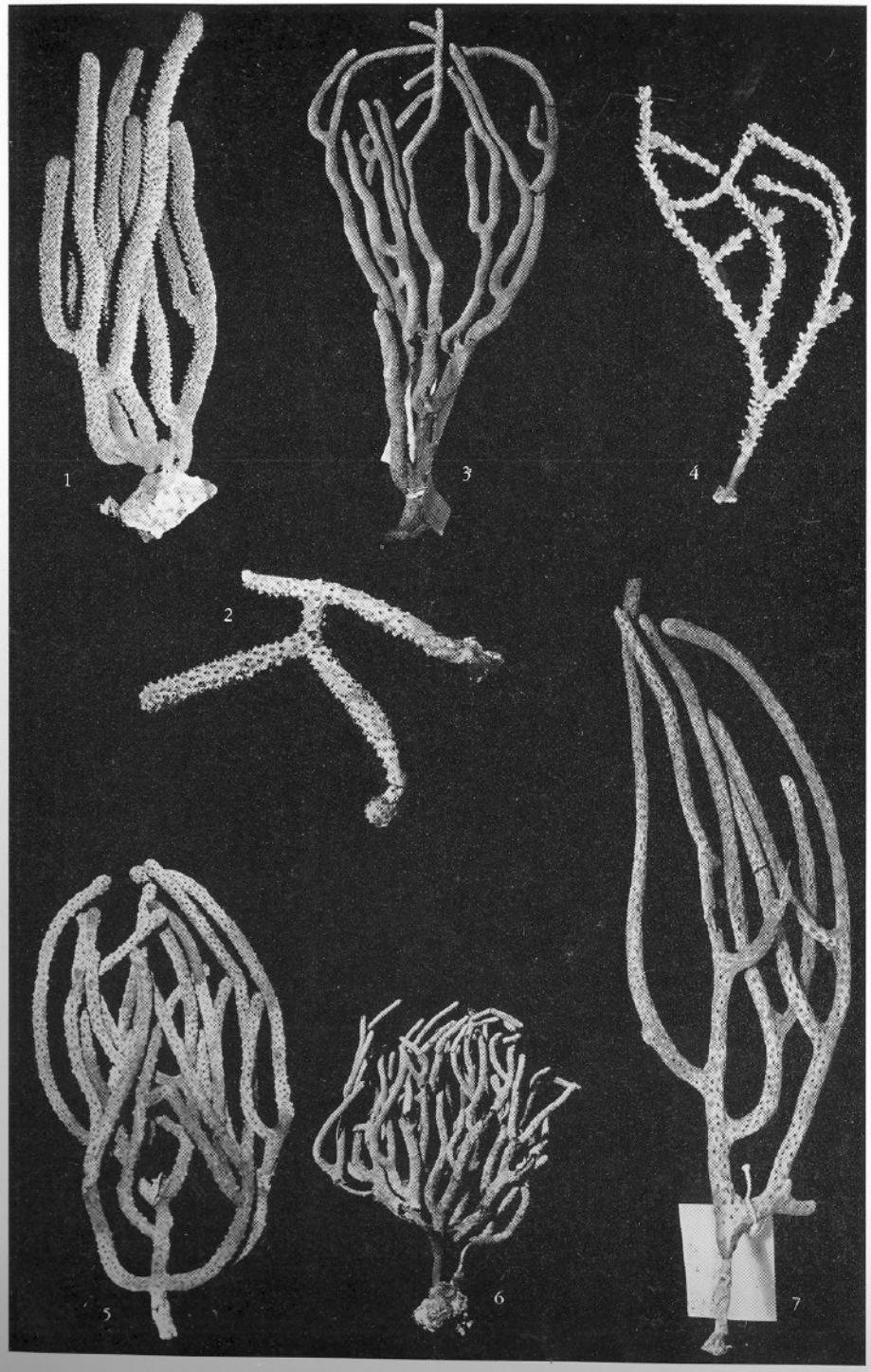


PLATE III

1. *Eunicea* (*Euniceopsis*) *laciniata* Duchassaing & Michelotti, from St. Christopher. Height, 31 cm. (USNM 50330)
2. *Eunicea* (*Euniceopsis laciniata* Duchassaing & Michelotti, from Florida. Height, 14 cm. (50373).
3. *Eunicea* (*Euniceopsis*) *calyculata* (Ellis & Solander), typical form, from New Providence, Bahamas. Height, 47 cm. (14389)
4. *Eunicea* (*Euniceopsis*) *calyculata* (Ellis & Solander), forma *coronata*, from the Campeche Bank, Mexico. Height, 19 cm. (50686)
5. *Eunicea* (*Euniceopsis*) *knighti* spec. nov., from Florida. Height, 21 cm. (Marine Lab., Florida State Univ.)
6. *Eunicea* (*Euniceopsis*) *fusca* Duchassaing & Michelotti, from Bermuda. Height, 17 cm. (USNM 50077)
7. *Eunicea* (*Euniceopsis*) *knighti* spec. nov., from the Gulf coast of Florida. Height, 24 cm. (50692)

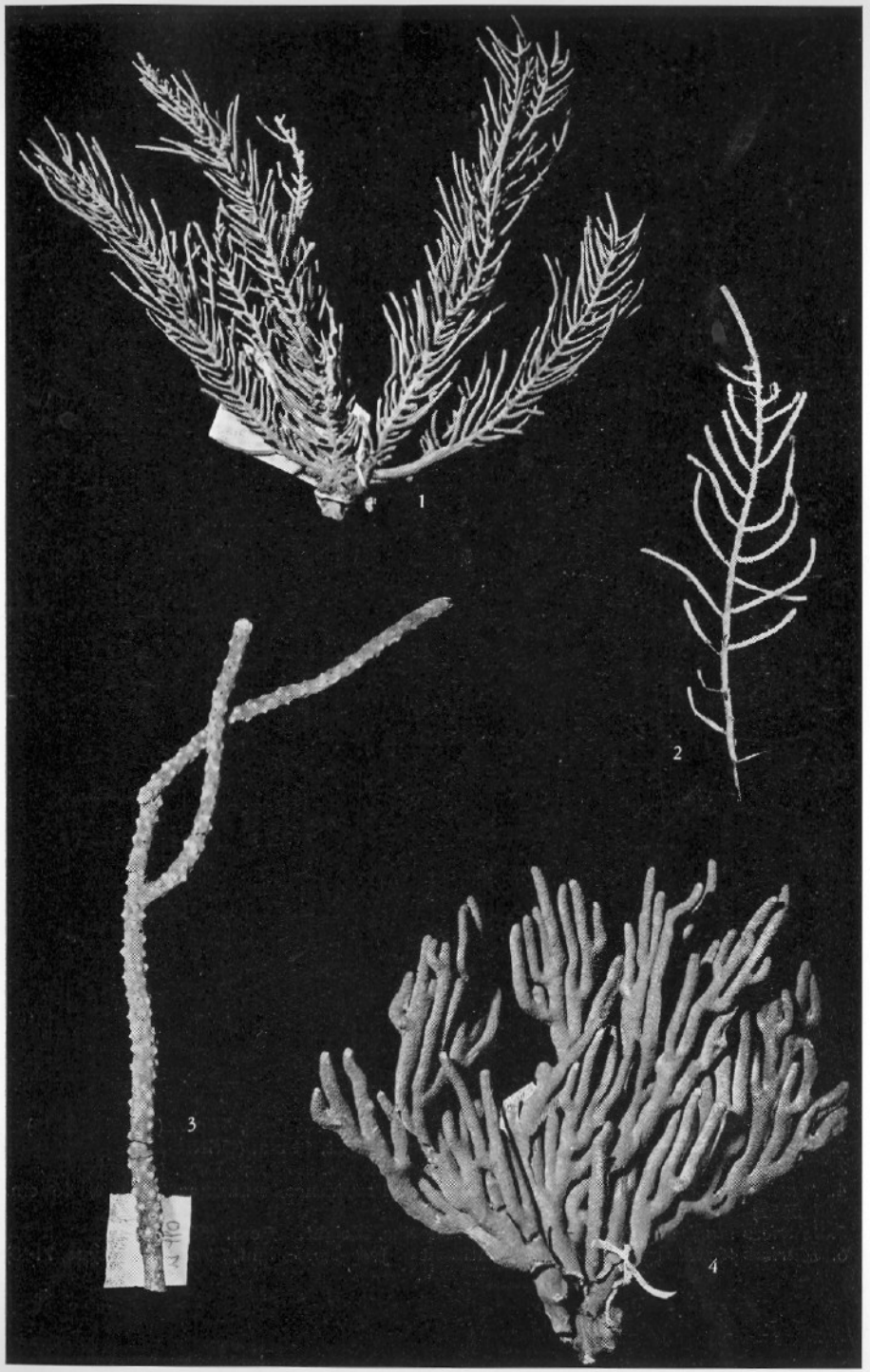


PLATE IV

1. *Muriceopsis flavida* (Lamarck), from Dominica. Height, 27 cm. (USNM 50344)
2. *Muriceopsis petila* spec. nov., from Florida, off Fernandina. Height, 15.5 cm. (Holotype, 50382)
3. *Eunicea* (*Euniceopsis*) *clavigera* spec. nov., from Bermuda. Height, 27 cm. (50076)
4. *Plexaura flexuosa* Lamouroux, from the Bahamas. Height, 20 cm. (50352)

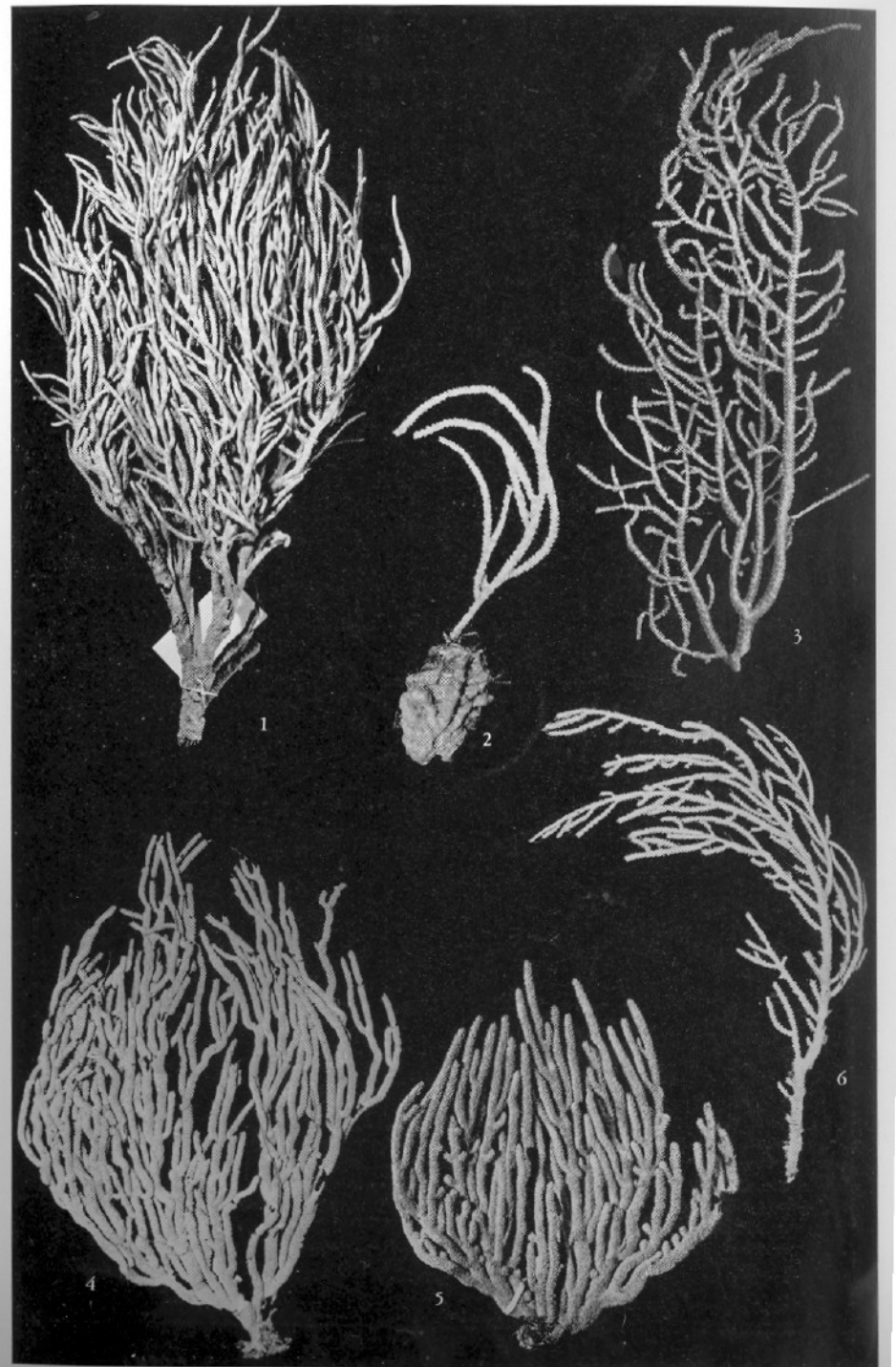


PLATE V

1. *Muricea elongata* Lamouroux, from the Florida Keys. Height, 47 cm. (USNM 50724)
2. *Muricea laxa* Verrill, from the Dry Tortugas. Height, 11 cm. (USNM 50240)
3. *Muricea pendula* Verrill, from Gulf coast of Florida. Height, 37 cm. (44222)
4. *Muricea atlantica* (Kükenthal), from New Providence, Bahamas. Height, 46 cm. (50557)
5. *Muricea muricata* (Pallas), from St. Eustatius. Height, 27 cm. (50313)
6. *Muricea pinnata* spec. nov., from southeast of Jamaica. Height, 26 cm. (Holotype, 7148)

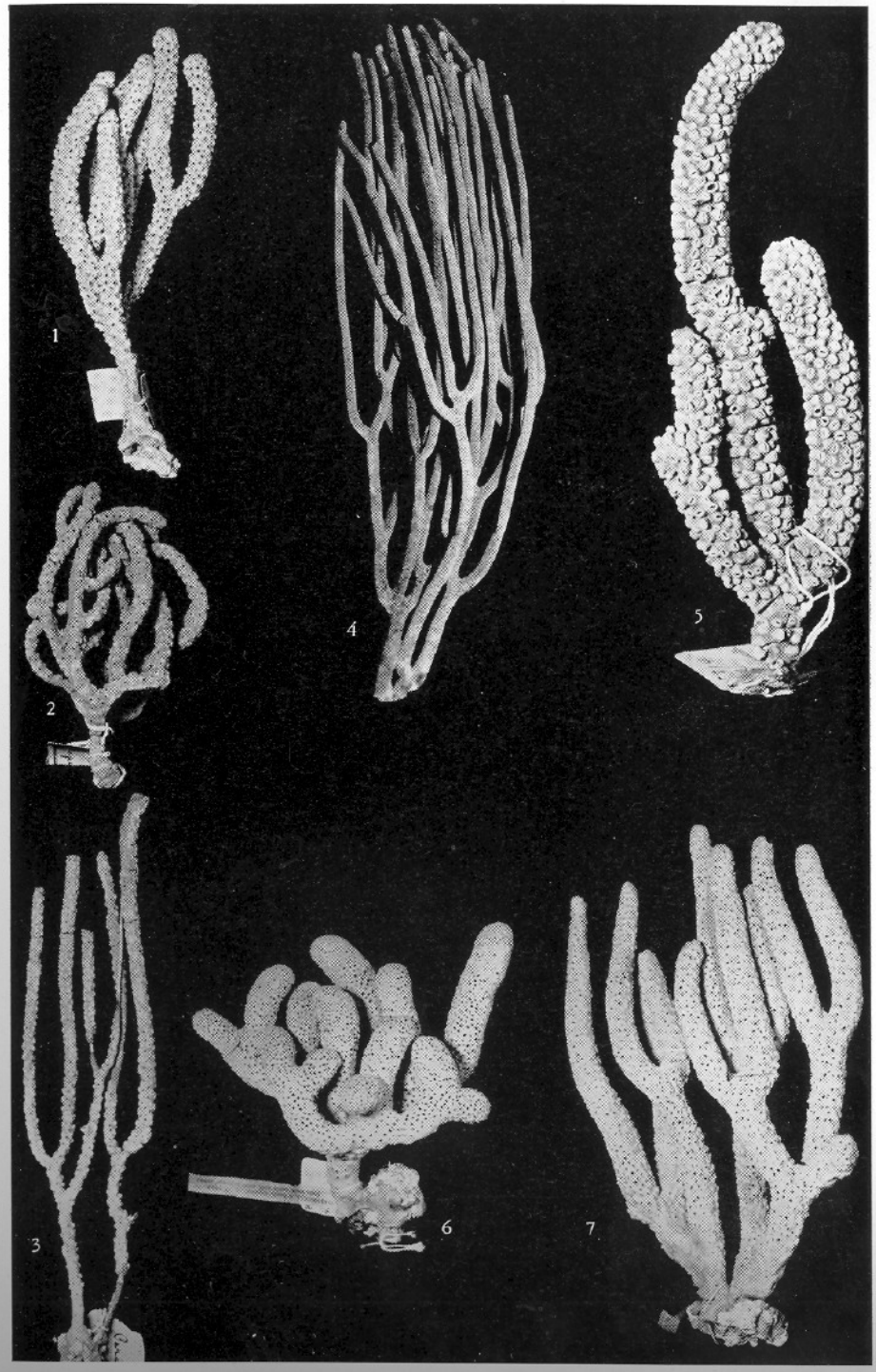


PLATE VI

1. *Plexaurella pumila* Verrill, from Brazil. Height, 15 cm. (USNM 5267)
2. *Plexaurella pumila* Verrill, from Bahia, Brazil. Height, 12 cm. (5279)
3. *Plexaurella pumila* Verrill, from Parahyba do Norte, Brazil. Height, 21 cm. (5268)
4. *Plexaurella grisea* Kunze, from St. Christopher. Height, 56 cm. (50534)
5. *Plexaurella grandiflora* Verrill, from Brazil. Height, 16 cm. (5314)
6. *Plexaurella dichotoma* (Esper), from Anguilla. Height, 11 cm. (50410)
7. *Plexaurella dichotoma* (Esper), from Anguilla. Height, 19 cm. (50410)

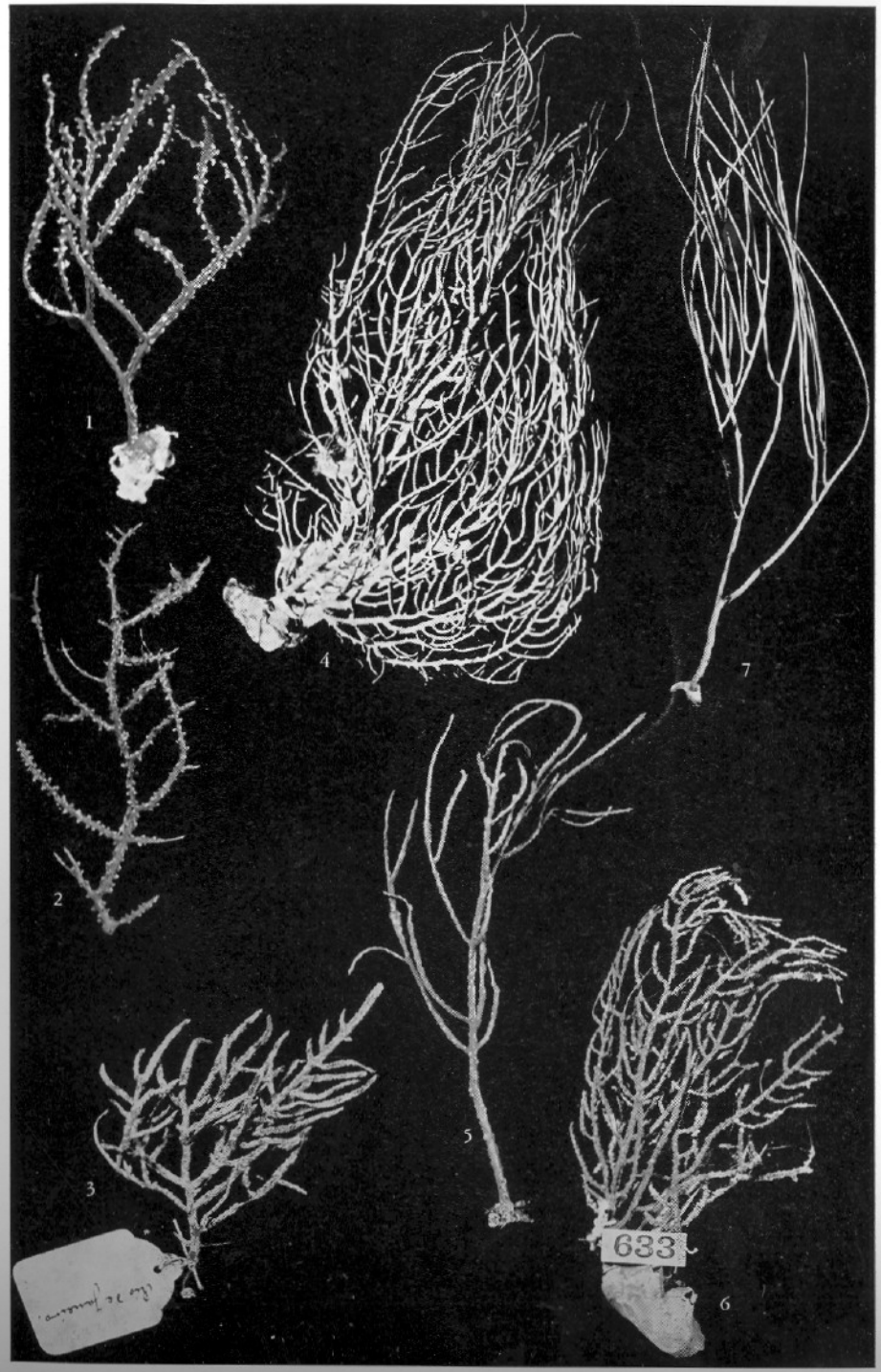


PLATE VII

1. *Lophogorgia violacea* (Pallas), from Paqueta, Brazil. Height, 10 cm. (USNM 17329)
2. *Lophogorgia* sp. indet., from Paqueta, Brazil. Height, 9 cm. (50226)
3. *Lophogorgia violacea* (Pallas), from Rio de Janeiro. Height, 10.5 cm. (50225)
4. *Lophogorgia hebes* (Verrill), from Texas. Height, 40 cm. (49751)
5. *Lophogorgia cardinalis* spec. nov., from the Florida coast near Palm Beach. Height, 13 cm. (49711)
6. *Lophogorgia punicea* (Milne Edwards & Haime), from Rio de Janeiro. Height, 14 cm. (633)
7. *Leptogorgia virgulata* (Lamarck), from the Gulf coast of Florida. Height, 35 cm. (6915)

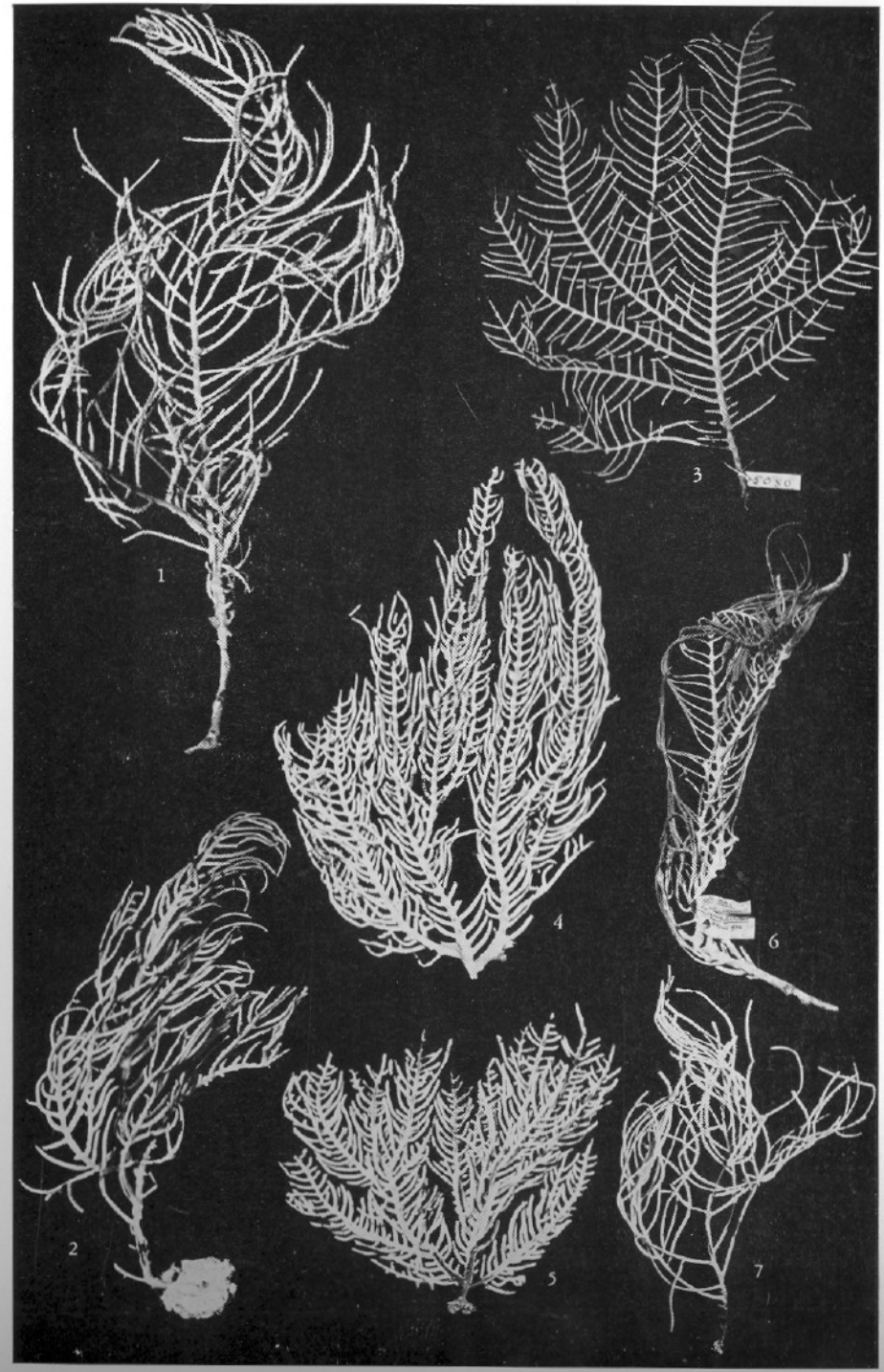


PLATE VIII

1. *Pseudopterogorgia albatrossae* spec. nov., from between Jamaica and Haiti. Height, 40 cm. (Holotype, USNM 50233)
2. *Pseudopterogorgia elisabethae* spec. nov., from Cuba. Height, 26 cm. (Holotype, 34679)
3. *Pseudopterogorgia bipinnata* (Verrill) from Cumaná, Venezuela. Height, 22 cm. (Holotype, MCZ 5080)
4. *Pseudopterogorgia hummelincki* spec. nov., from Anguilla. Height, 20 cm. (Paratype, USNM 50204)
5. *Pseudopterogorgia hummelincki* spec. nov., from Anguilla. Height, 12.5 cm. (Holotype, 50203)
6. *Pseudopterogorgia americana* (Gmelin), from Curaçao. Height, 30 cm. (52053)
7. *Pseudopterogorgia navia* spec. nov., from Hispaniola. Height, 20 cm. (USNM 50070)

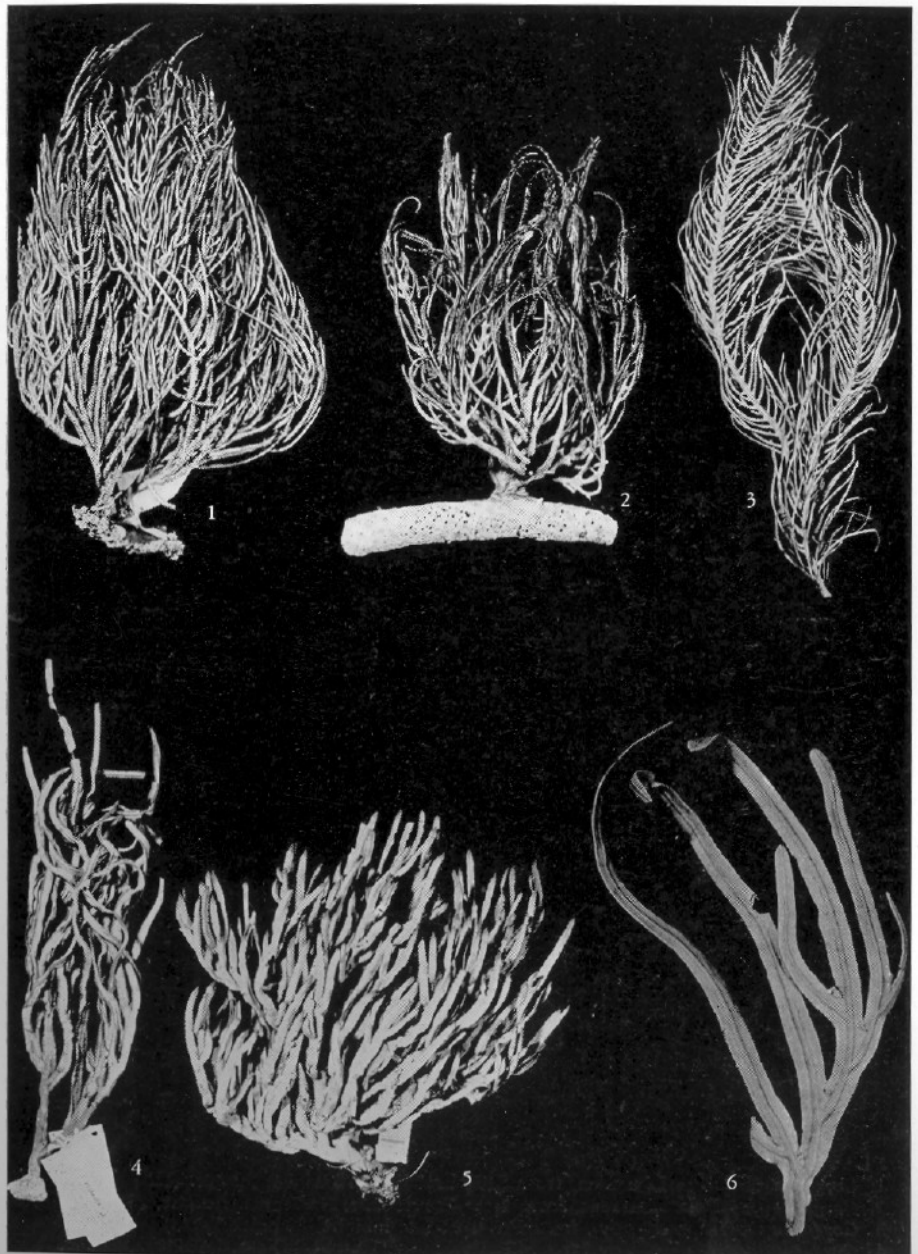


PLATE IX

1. *Pseudopterogorgia rigida* (Bielschowsky), from the Dry Tortugas. Height, 28 cm. (USNM 50211)
2. *Pseudopterogorgia americana* (Gmelin), from Bonaire. Height, 20 cm. (50206)
3. *Pseudopterogorgia acerosa* (Pallas), from Curaçao. Height, 50 cm. (Car. Marien-Biol. Inst.)
4. *Pterogorgia anceps* (Pallas). Height, 35 cm. (USNM 8855)
5. *Pterogorgia citrina* (Esper), from St. Eustatius. Height, 17 cm. (50195)
6. *Pterogorgia guadalupensis* Duchassaing & Michelotti, from the Florida Keys. Height, 24 cm. (44233)

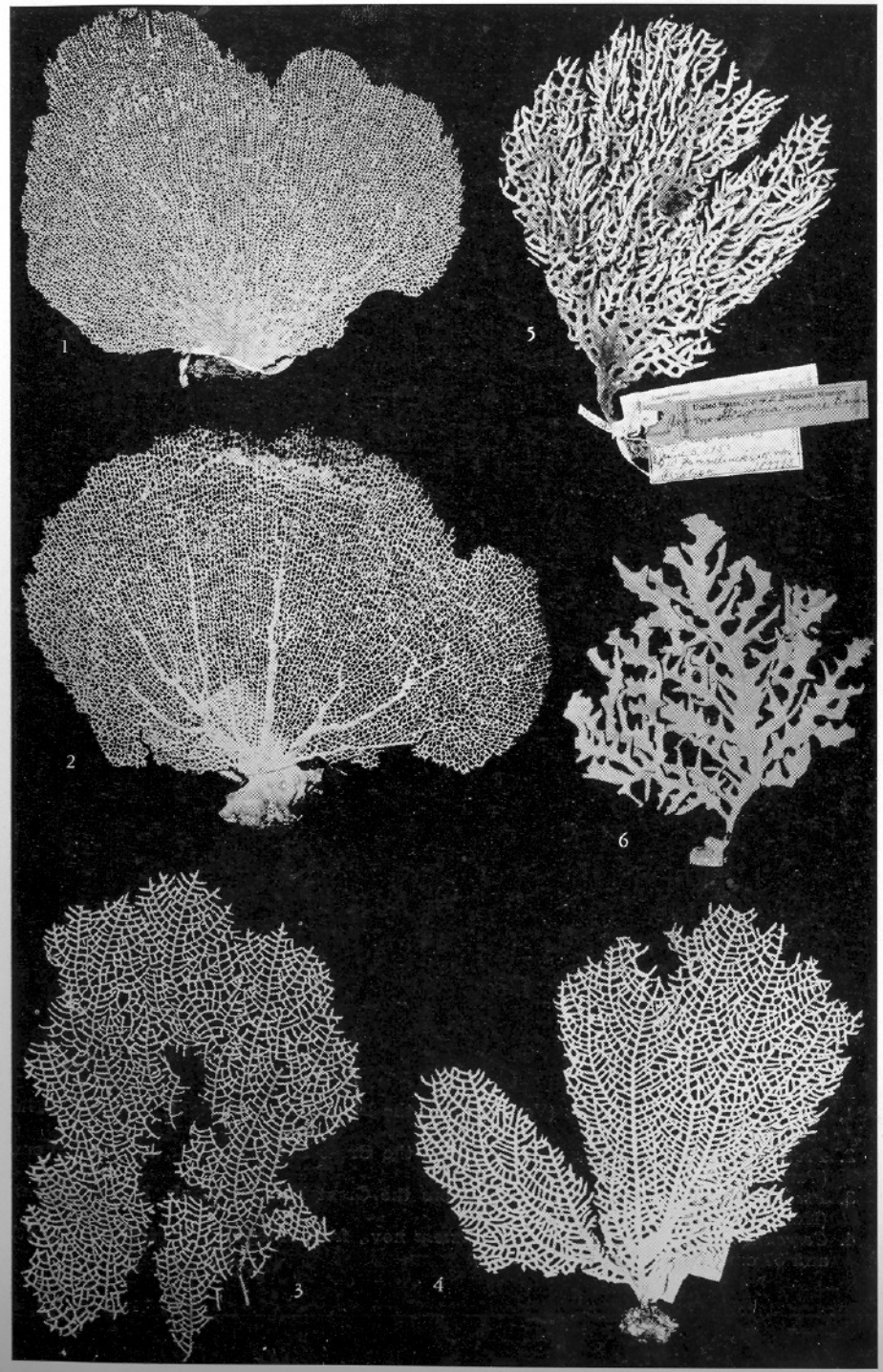


PLATE X

1. *Gorgonia ventalina* Linnaeus, from St. Barthélemy. Height, 28 cm. (USNM 50222)
2. *Gorgonia flabellum* Linnaeus, from New Providence, Bahamas. Height, 27 cm. (14365)
3. *Gorgonia mariae* spec. nov., from Puerto Rico. Height, 26 cm. (50073)
4. *Gorgonia mariae* spec. nov., from St. Eustatius. Height, 20 cm. (Holotype, 50421)
5. *Gorgonia mariae* spec. nov., forma *cymosa* nov., from St. Martin. Height, 17 cm. (Paratype, 50423)
6. *Phyllogorgia dilatata* (Esper), from Brazil. Height, 24 cm. (5252)

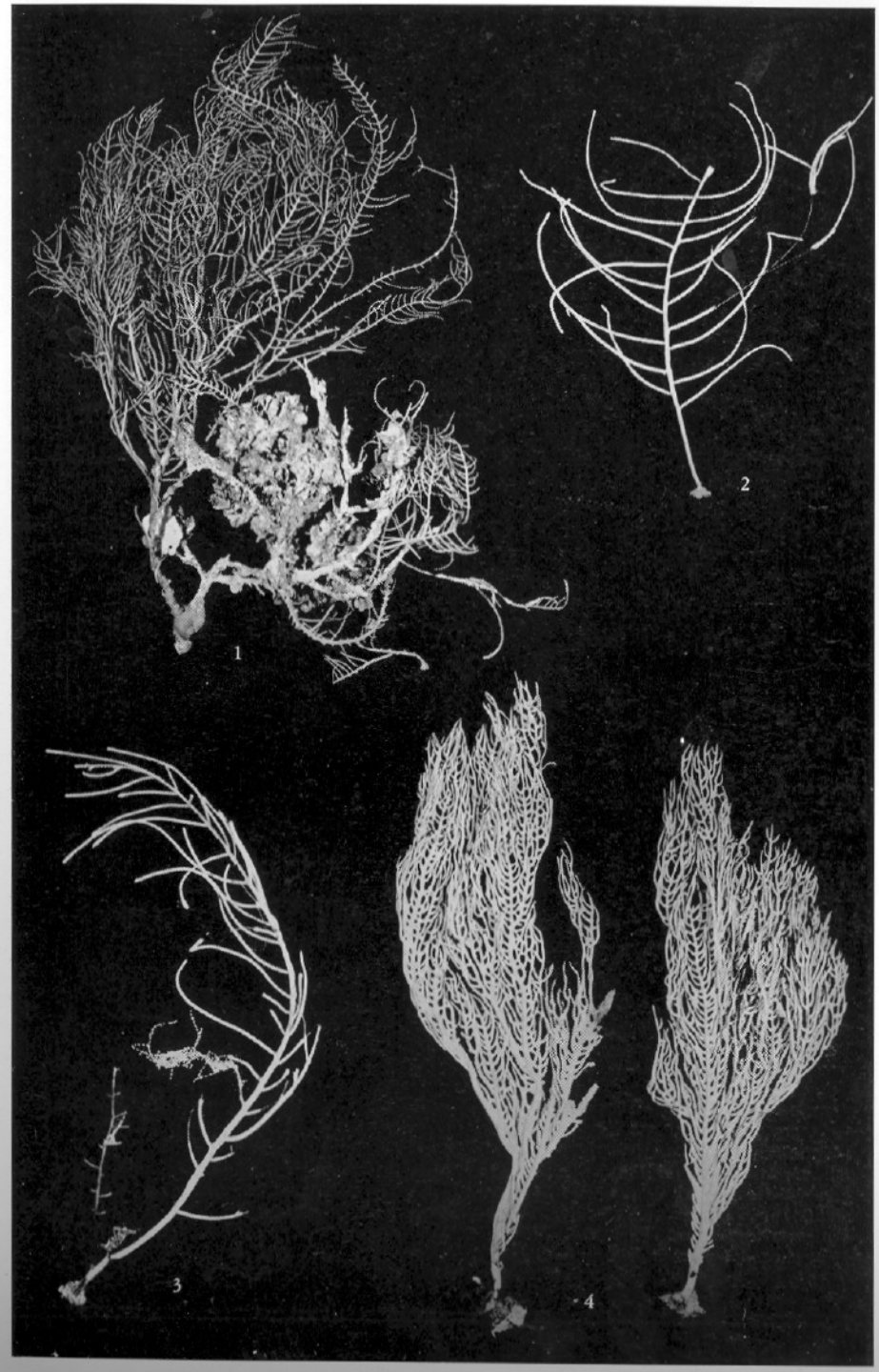
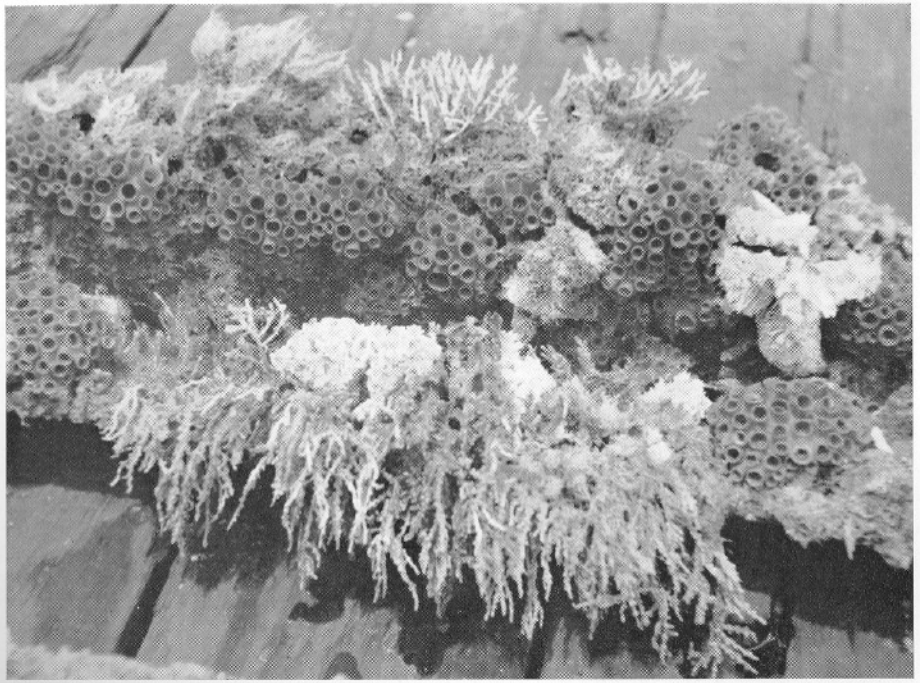


PLATE XI

1. *Pseudopterogorgia bipinnata* (Verrill), from the Florida Keys. Height, 45 cm. (USNM 50214)
2. *Pseudopterogorgia hystrix* spec. nov., from the Great Bahama Bank, Height, 20 cm. (Paratype, 50386)
3. *Pseudopterogorgia hystrix* spec. nov., from the Great Bahama Bank. Height 35 cm. (Holotype, 50385)
4. *Gorgonia maviae* spec. nov., forma *plumosa* nov., from Anegada. Height 40 cm (left) and 37 cm (right). (Paratypes, 51027)



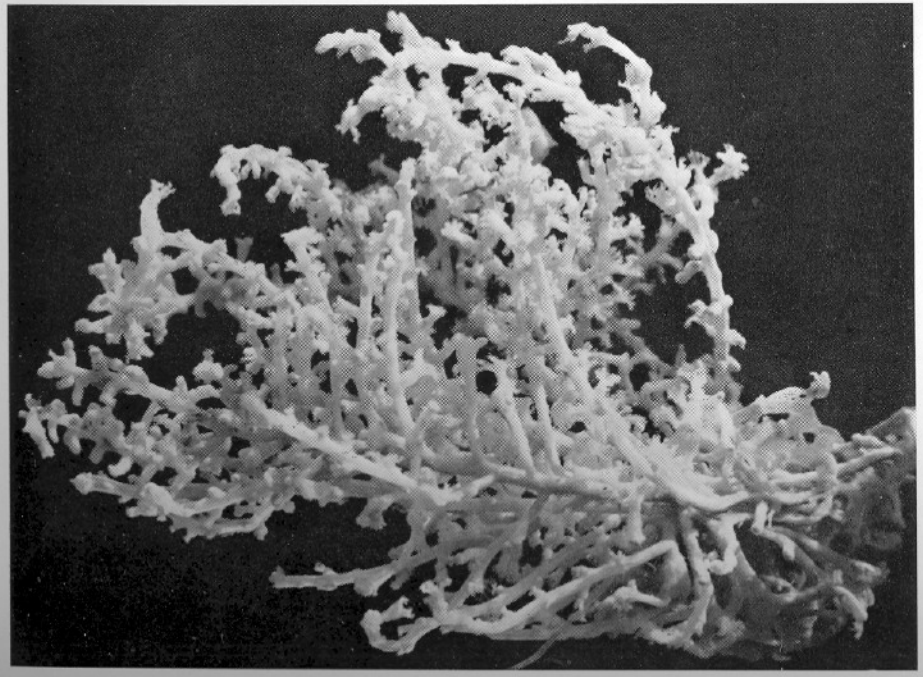


PLATE XII

Above, *Telesto riisei* (Duchassaing & Michelotti), together with *Tubastraea tenuilamellosa* (Milne Edwards & Haime), on iron beam of wharf near Oranjestad, Aruba. (USNM 50375) Photograph by P. Wagenaar Hummelinck.

Below, *Telesto riisei* (Duchassaing & Michelotti), from Florida: taken from bottom of ship anchored 1 year in Biscayne Bay (USNM 44065).

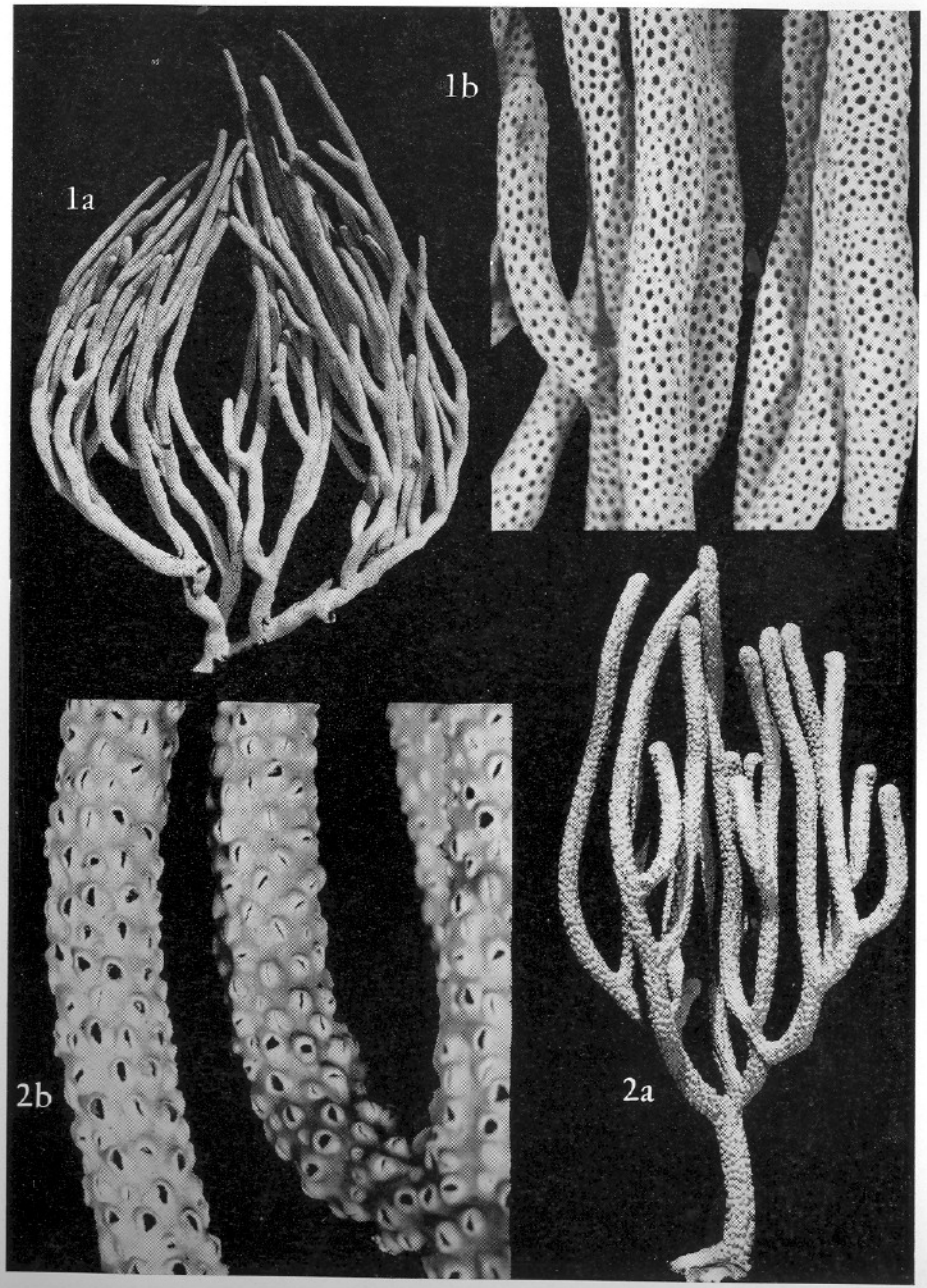


PLATE XIII

1a. *Pseudoplexaura crucis* spec. nov., from Virgin Islands. Height, 34 cm. (Holotype, USNM 51718) 1b. The same, detail of branches.

2a. *Plexaurella nutans* (Duchassaing & Michelotti), from Soldier Key, Florida. Height, 47 cm. (51725) 2b. The same, detail of branches.

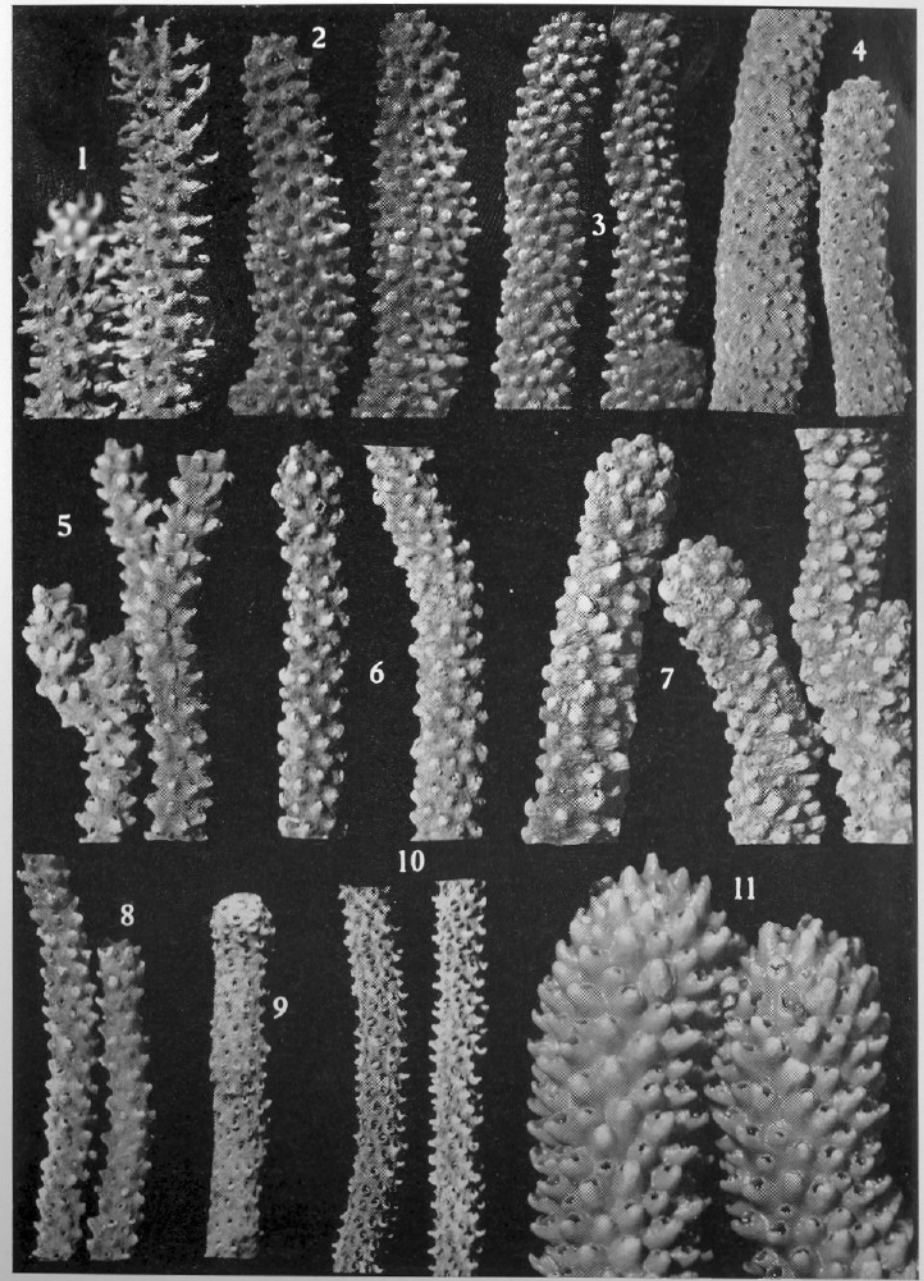


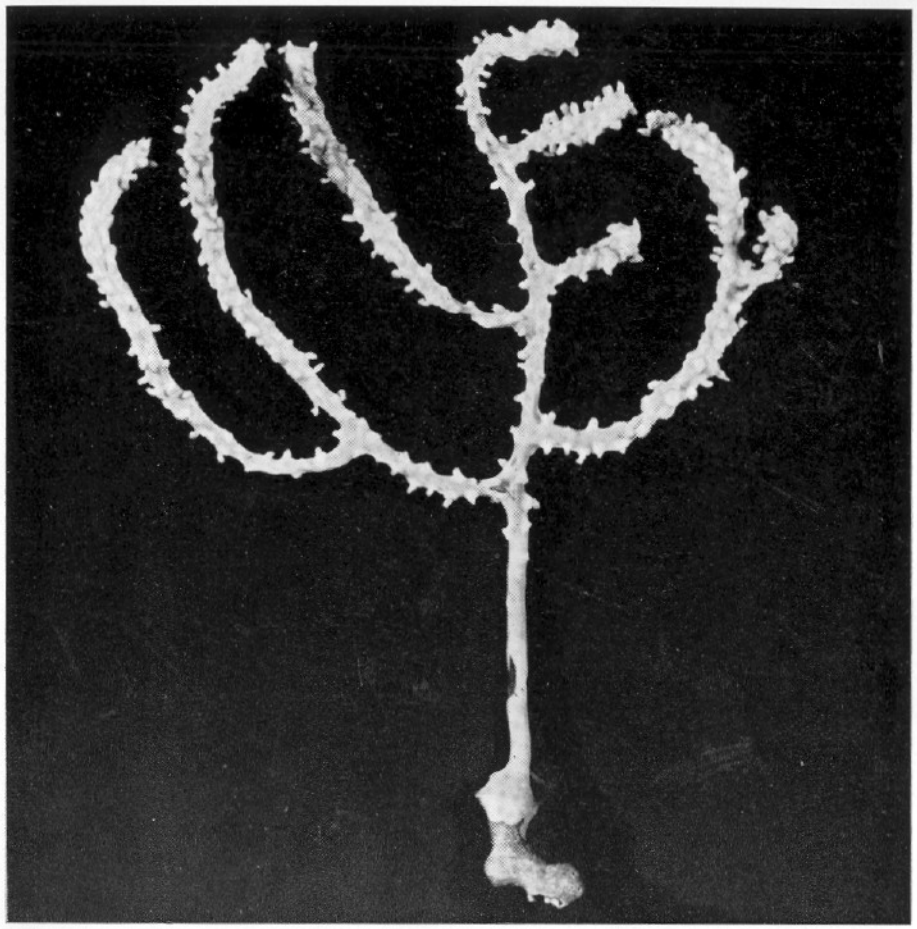
PLATE XIV

1–4. *Eunicea tourneforti* Milne Edwards & Haime. Details of four specimens from Soldier Key, Florida, showing variation in calyces. 1. A typical, broad specimen 22 cm. tall. (UMML) 2. A specimen 20 cm. tall, with less prominent calyces. (USNM 51727) 3. A tall, bushy colony 39 cm. tall, with crowded calyces. This is the specimen shown on Pl. XXI. (51728) 4. A bushy colony 38 cm. tall, with inconspicuous calyces. (51729)

5–7. *Eunicea tourneforti* Milne Edwards & Haime. Details of three specimens from the same locality in Bermuda, showing variation in calyces. 5. A candelabrum-shaped colony 20 cm. tall, with slender branches. (51730) 6. A narrower colony 24 cm. tall, with stouter branches. (51731) 7. A stout colony 22 cm. tall, with thick branches and blunt, crowded calyces. (51732)

8–10. *Eunicea asperula* Milne Edwards & Haime. Details of three specimens from Soldier Key, Florida, showing variation in calyces. 8. An upright, bushy colony 43 cm. tall, with prominent calyces. (51733) 9. A straggling colony 42 cm. tall, with inconspicuous calyces. (UMML) 10. A slender, upright colony 44 cm. tall, with crowded, sharp calyces. (USNM 51734)

11. *Eunicea laciniata* Duchassaing & Michelotti. Two branch tips of an exceptionally stout colony from Yucatan. (51459)



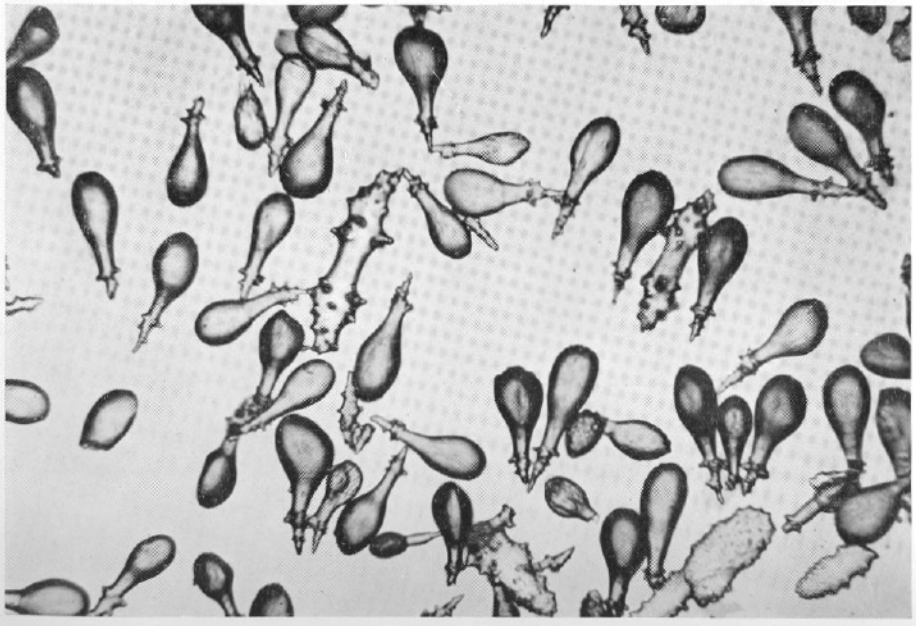


PLATE XV

Eunicella modesta Verrill, from Fernandina, Florida, 440 fathoms. Above, the entire colony. Height, 12 cm. Below, spicules; mostly balloon clubs of surface layer, but two double spindles of inner layer near middle of field, and three broken anthocodial rods at lower right. (USNM 10505)

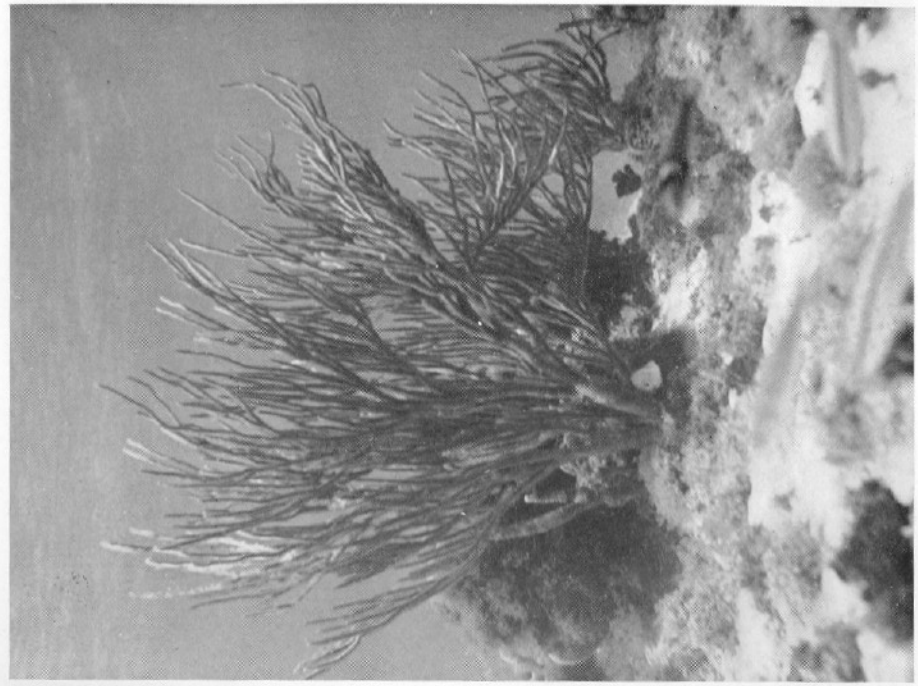




PLATE XVI
Left, *Plexaura homomalla* (Esper). Living colony photographed under water at Buck Island, St. Croix, VIII. 1960. (Branch, USNM 51735)
Right, *Plexaura flexuosa* Lamouroux. Living colony photographed under water at Buck Island, St. Croix, VIII. 1960. (Branch, 51736)
Both photographs by R. E. Schroeder.

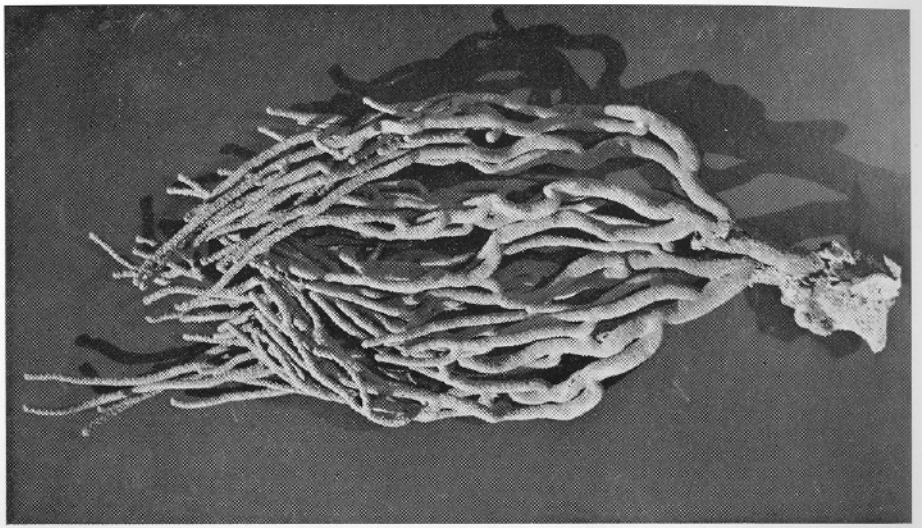
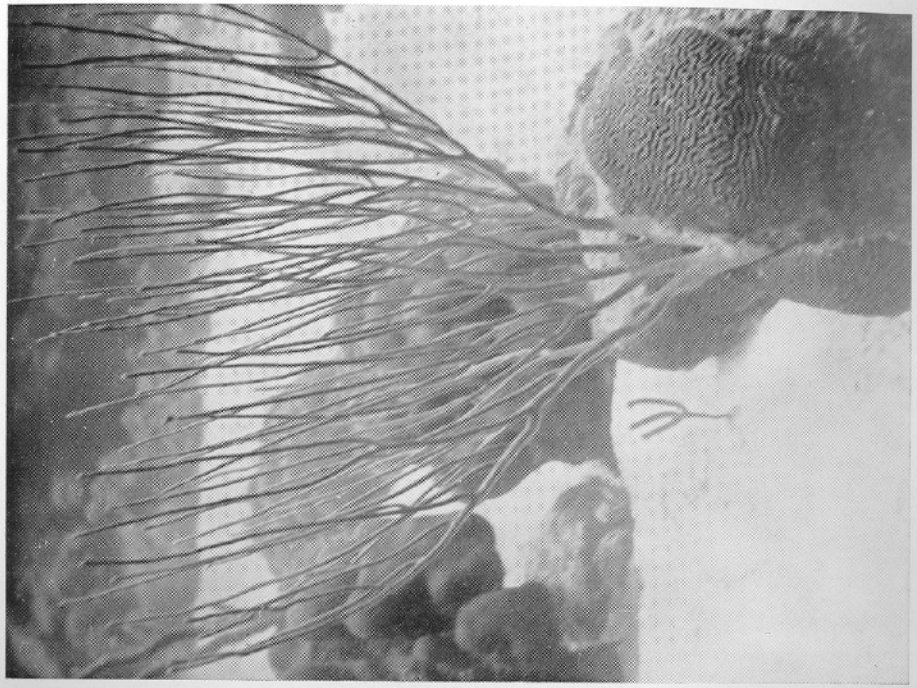




PLATE XVII
Left, *Plexaura flexuosa* Lamouroux. Living colony photographed under water at Soldier Key, Florida, 10. X. 1960.
Right, the same colony prepared as a dry specimen. Height, 41 cm. (USNM 51737)



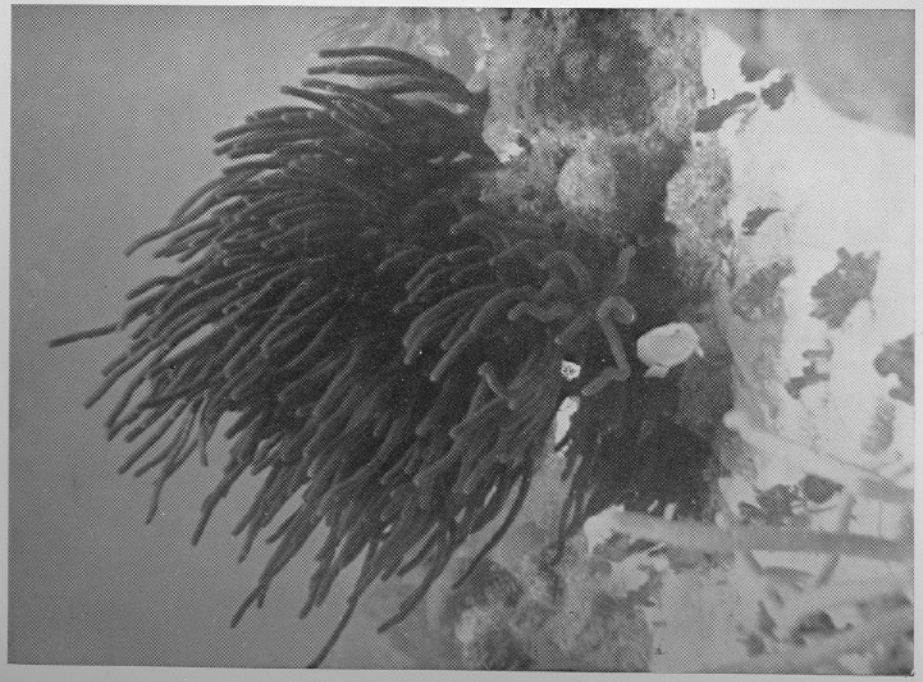


PLATE XVIII
Left, *Pseudoplexaura porosa* (Houttuyn). Living colony photographed under water at Buck Island, St. Croix, VIII. 1960. (Branch, USNM 51703)
Right, *Pseudoplexaura flagellosa* (Houttuyn). Living colony photographed under water at Buck Island, St. Croix, VIII. 1960. (Branch, 51711)
Both photographs by R. E. Schroeder.



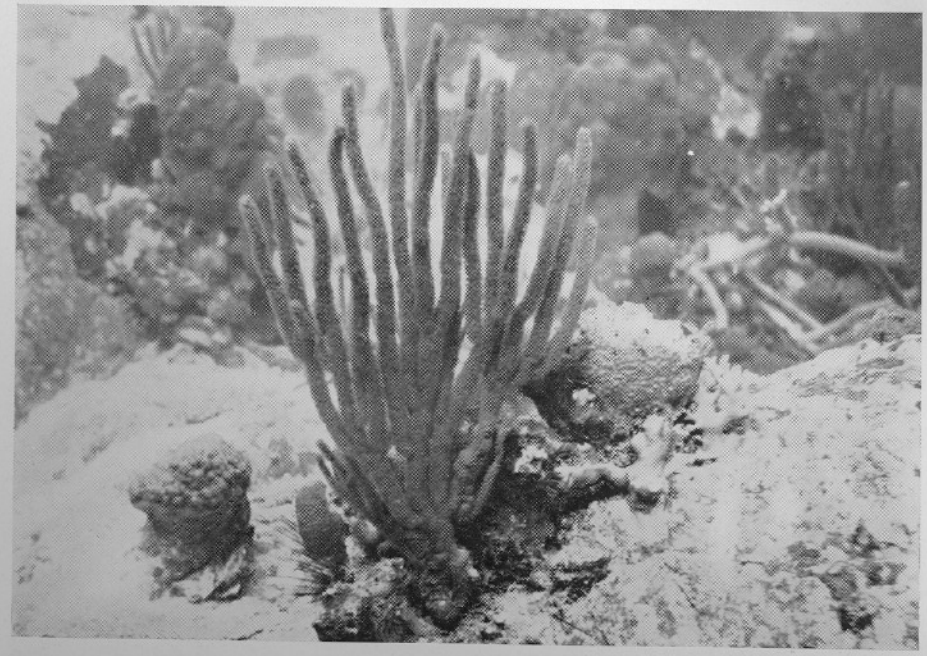
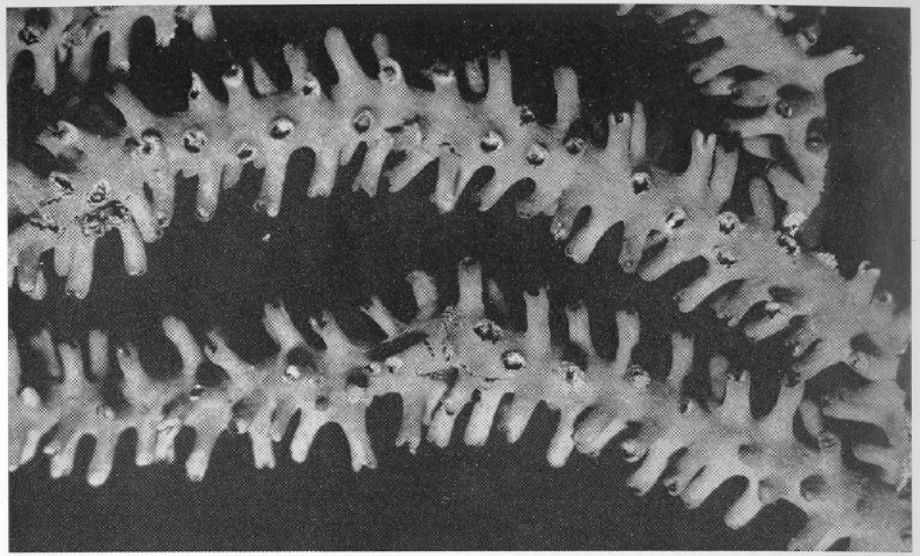
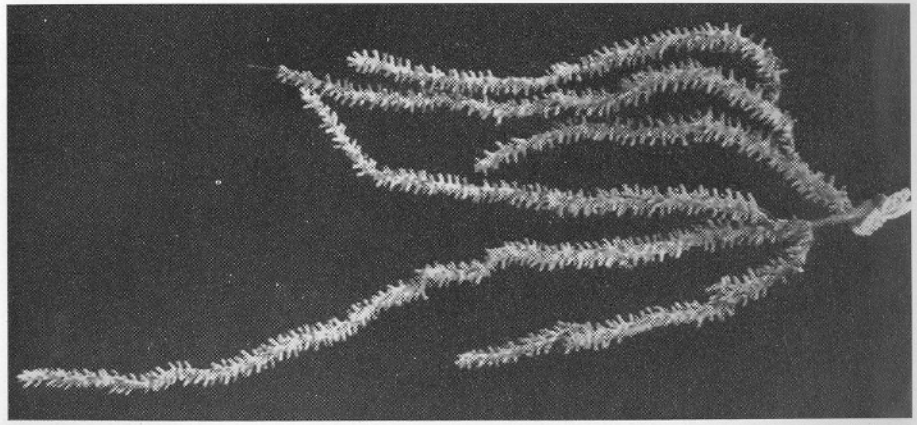


PLATE XIX

Top, *Pseudopterogorgia americana* (Gmelin). Living colony photographed under water at Soldier Key, Florida, 10. X. 1960. Height, 57 cm. (USNM 51738)

Bottom, *Pseudoplexaura wagenaari* (Stiasny). Living colony photographed under water at St. John, XI. 1960. (Branch, 51724.) Photograph by R. E. Schroeder.





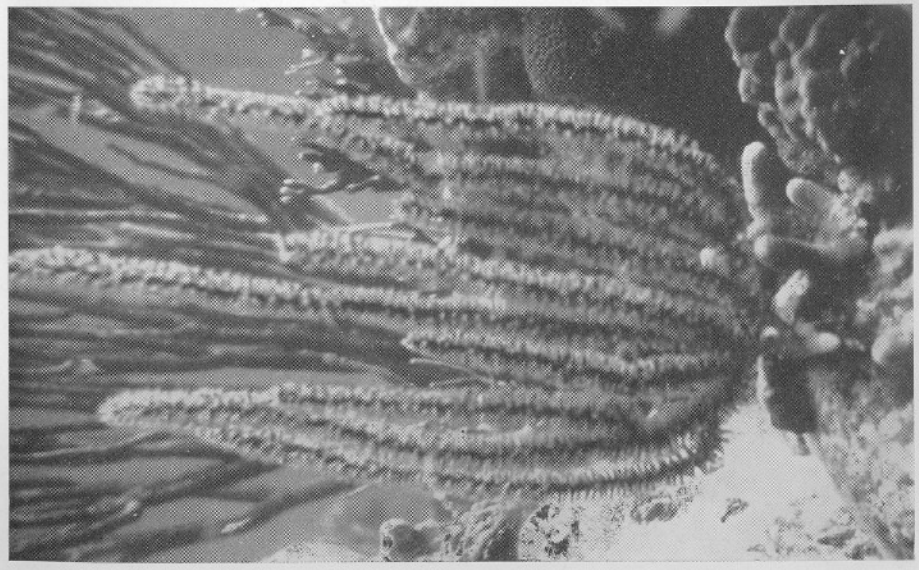


PLATE XX

Left, *Eunicea laxispica* (Lamarck). Living colony photographed under water at St. John, XI. 1960. Photograph by R. E. Schroeder.

Middle, the same colony prepared as a dry specimen. The three branches at left of living specimen have been removed. Height, 30 cm. (USNM 51739)

Right, Details of same, showing calyces.

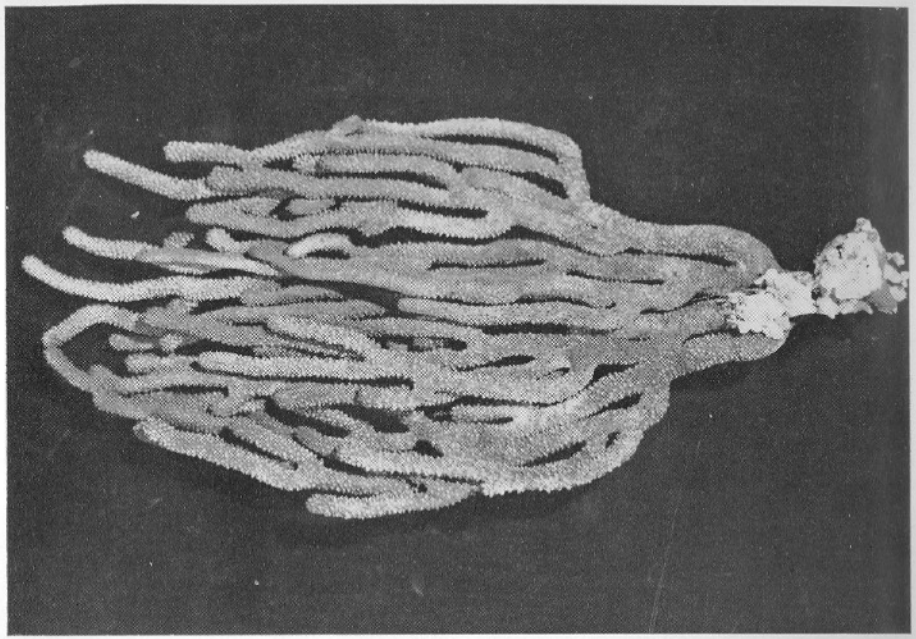
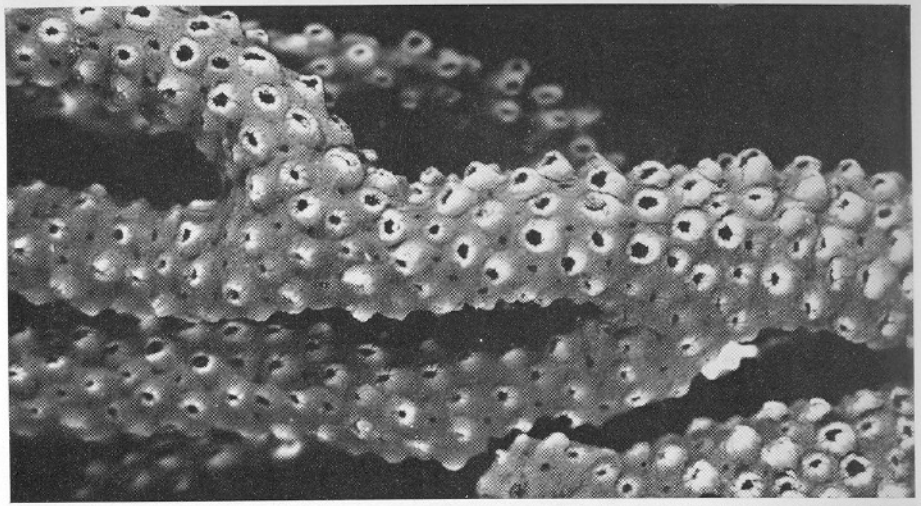




PLATE XXI
Left, *Eunicea tourneforti* Milne Edwards & Haime. Living colony photographed under water at Soldier Key, Florida, 10. X. 1960. Polyps partially expanded.
Right, the same colony preserved as a dry specimen. Height, 39 cm. (USNM 51728)



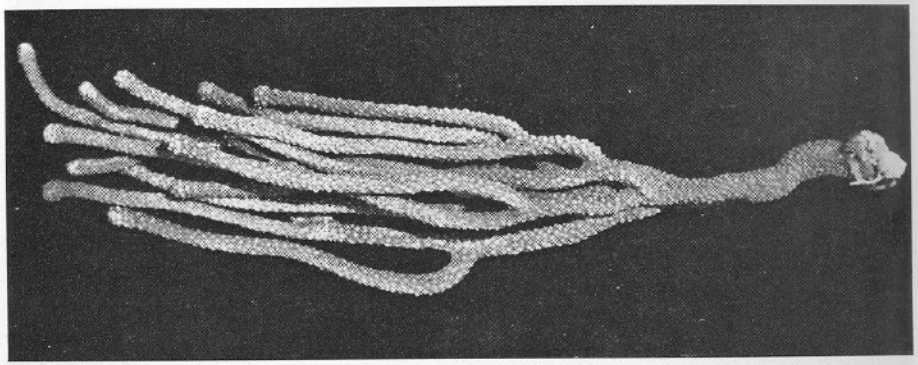




PLATE XXII

Left, *Eunicea calyculata* (Ellis & Solander). Living colony photographed under water at Soldier Key, Florida, 10. X. 1960. Polyps almost fully expanded.
Middle, the same colony prepared as a dry specimen. Height, 40 cm. (USNM 51740)
Right details of same showing calyces.

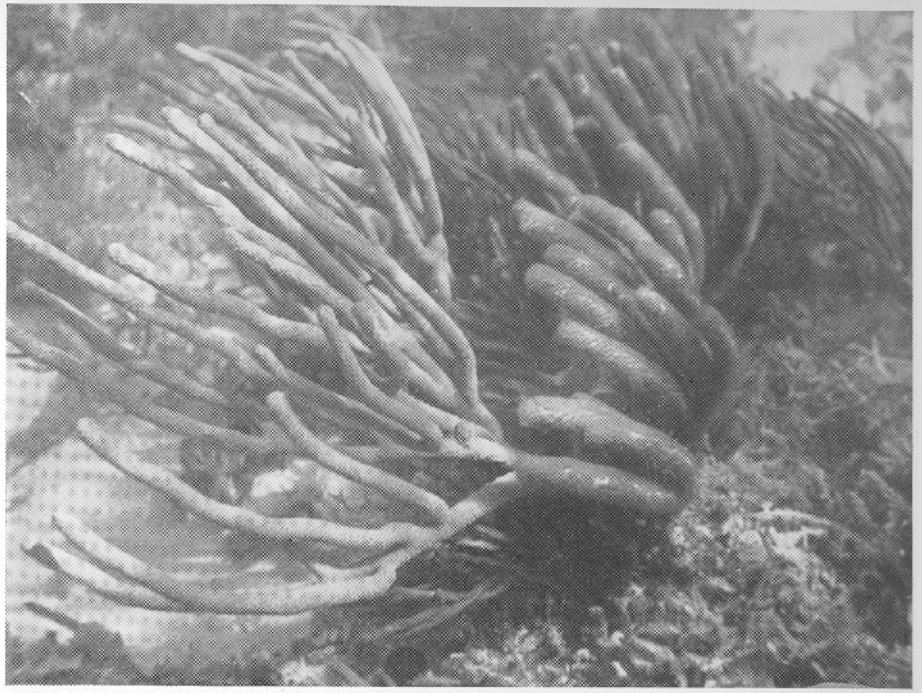
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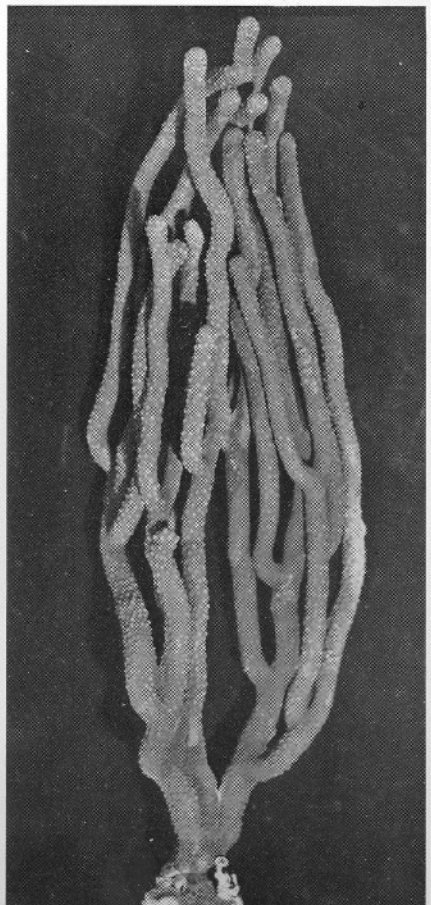
PLATE XXIII

Top, living colonies of *Eunicea calyculata* (Ellis & Solander) (left, polyps retracted) and *Plexaurella dichotoma* (Esper) (right, polyps fully expanded), photographed at Soldier Key, Florida, 10. X. 1960.

Bottom left, the same colony of *E. calyculata* prepared as a dry specimen. Height, 37 cm. (USNM 51741)

Bottom right, the same colony of *P. dichotoma* preserved as a dry specimen. Height, 26 cm. (51742)





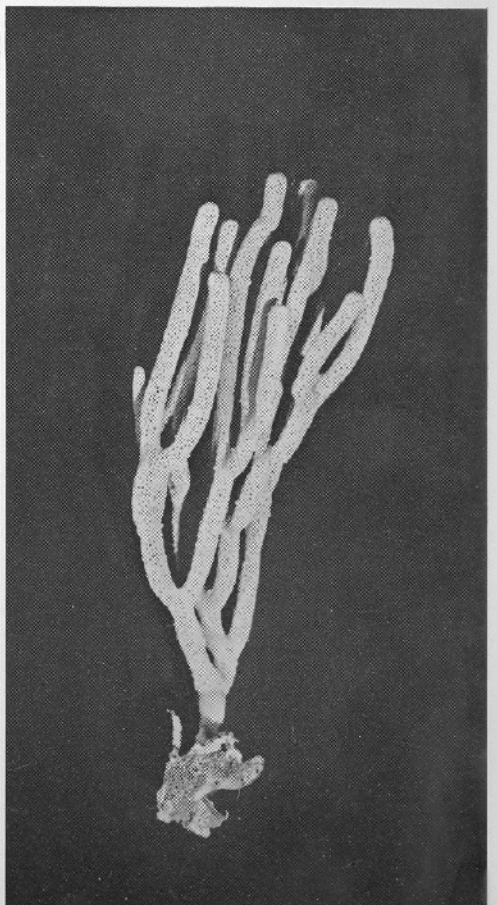


PLATE XXIV

Left, *Eunicea tourneforti* Milne Edwards & Haime, forma *atra* Verrill. Living candelabrum-shaped colony photographed under water at Buck Island, St. Croix, VIII. 1960. (Branch, USNM 51723)

Right, *Plexaurella dichotoma* (Esper). Living colony photographed under water at Buck Island, St. Croix, VIII. 1960. (Branch, USNM 51743)

Both photographs by R. E. Schroeder.

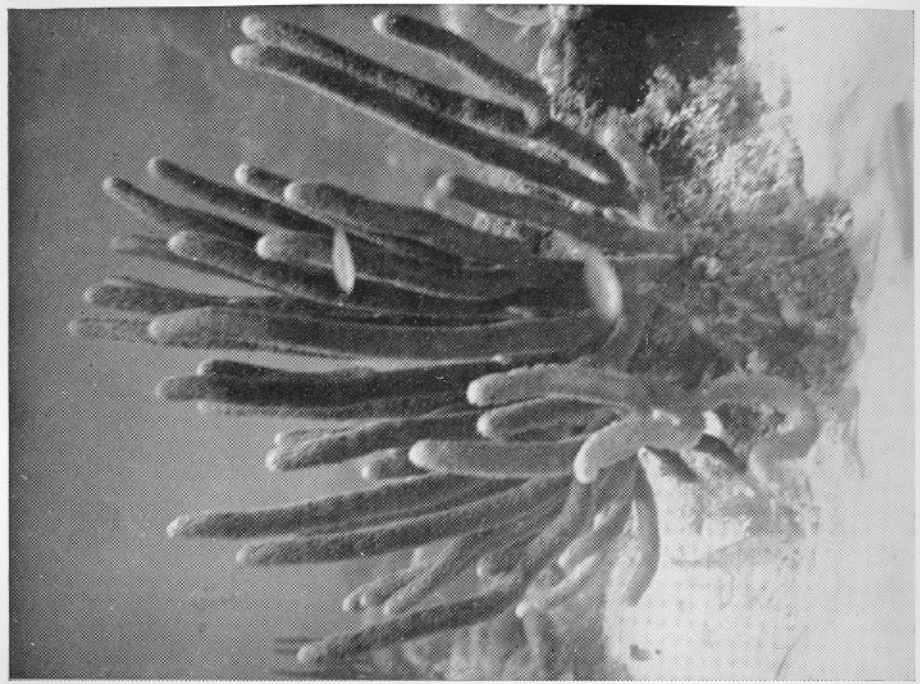
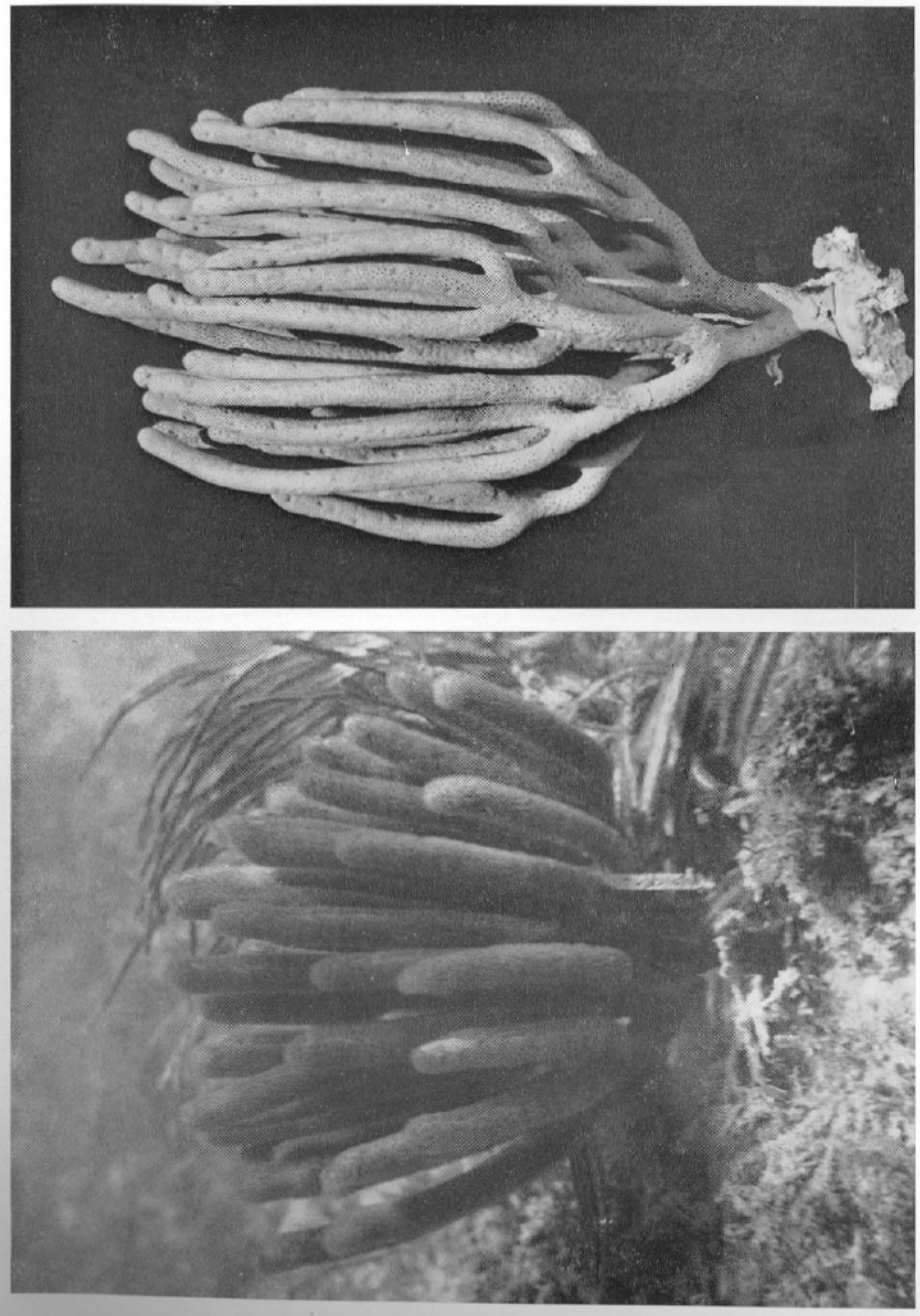




PLATE XXV

Left, *Plexaurella dichotoma* (Esper). Living colony, polyps fully expanded, photographed under water at Soldier Key, Florida, 10. X. 1960.
Right, the same colony prepared as a dry specimen. Height, 30 cm. (USNM 51744)



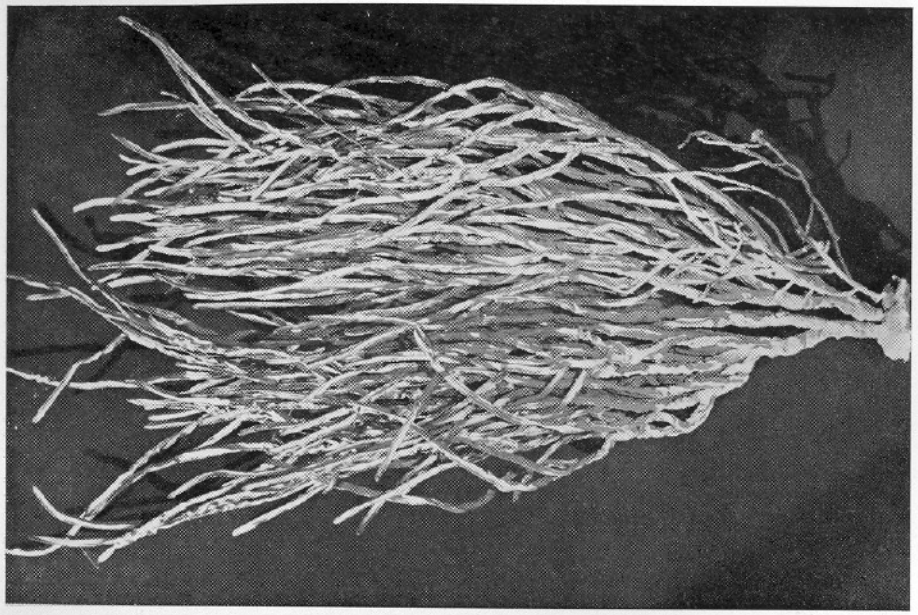
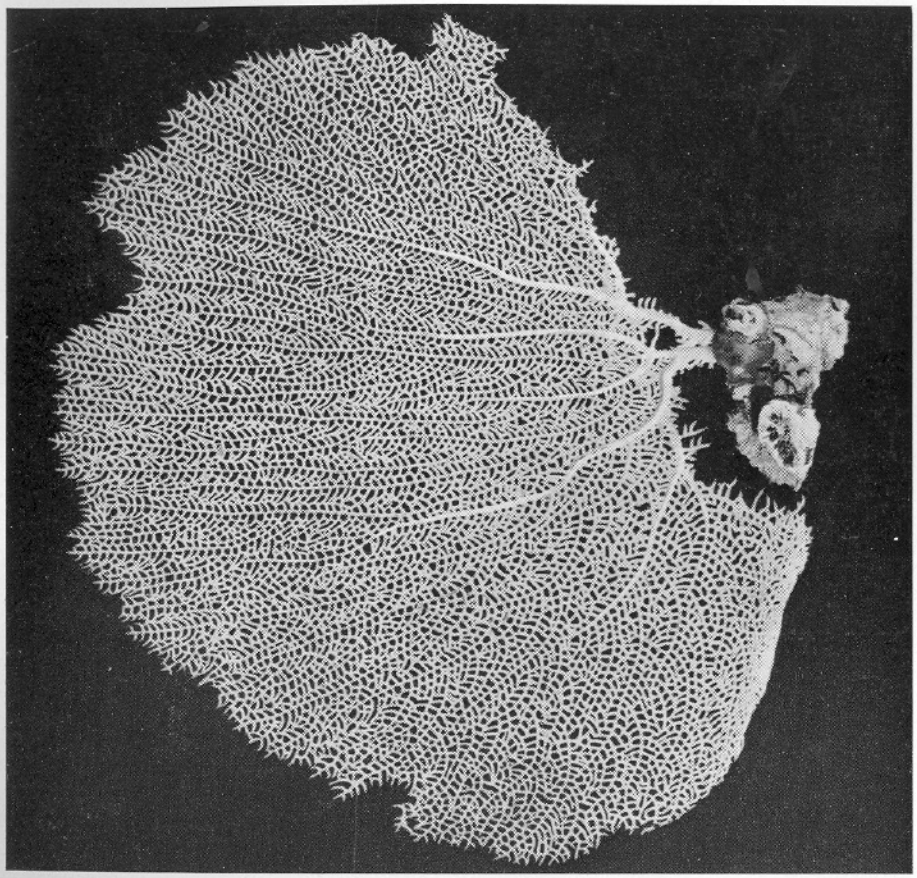




PLATE XXVI
Left, *Ptevogorgia anceps* (Pallas). Living colony, fully expanded, photographed under water at Soldier Key, Florida, 10. X. 1960.
Right, the same colony prepared as a dry specimen. Height, 55 cm. (USNM 51745)



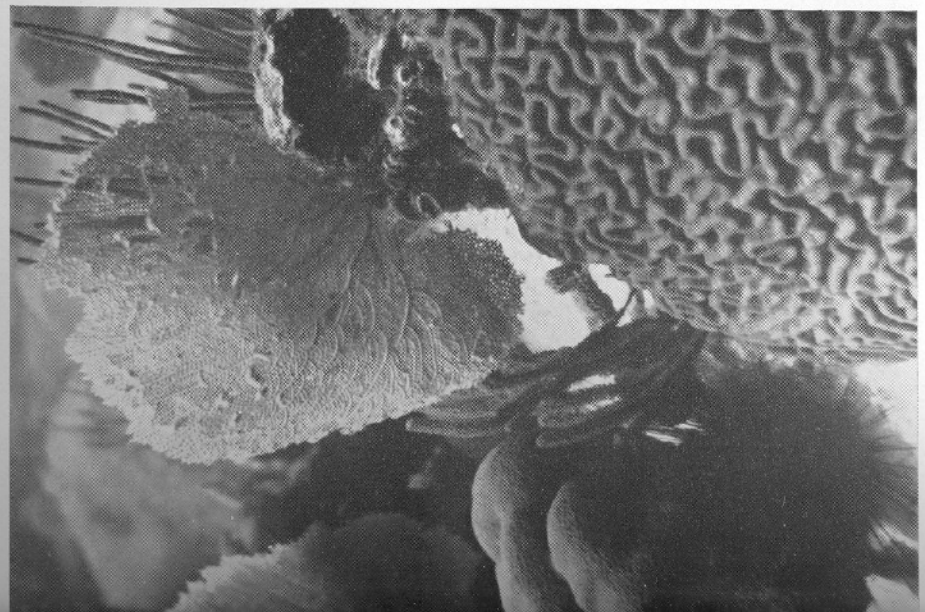


PLATE XXVII
Left, *Gorgonia ventalina* Linnaeus. Living colony photographed under water at St. John, XI. 1960. Photograph by R. E. Schroeder.
Right, the same colony prepared as a dry specimen. Height, 25 cm. (USNM 51746)