AN ANNOTATED BIBLIOGRAPHY
OF NORTH AMERICAN
UPPER CRETACEOUS CORALS
1785 - 1950
By BOB F. PERKINS

FONDREN SCIENCE SERIES
NUMBER 3

SOUTHERN METHODIST UNIVERSITY PRESS
DALLAS
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Fondren Science Series, Number 3

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1951
FONDREN SCIENCE SERIES

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Part I: Systematic Description, by S. P. Welles
(May 10, 1949) . . . . . . . . . . . . . . . . $1.50
Part II: The Elasmosaur and Its Environment,
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Dallas County, Texas, by Bob F. Perkins
(April 17, 1951) . . . . . . . . . . . . . . . . $1.00

No. 3. An Annotated Bibliography of North American Upper
Cretaceous Corals, 1785-1950, by Bob F. Perkins
(April 30, 1951) . . . . . . . . . . . . . . . . $2.50

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INTRODUCTION

Although more than one hundred species of corals have been described from the Upper Cretaceous formations of North America, there has been no attempt, to date, to compile a bibliographic index of the species. The author feels that such an index would be useful to paleontologists in future identifications.

The following bibliography includes a list, with annotations, of all available literature on North American corals of Upper Cretaceous age; a catalogue of genera and species; and a plate showing the distribution of species.

The author wishes to express his gratitude to Dr. Lloyd H. Shinners of Southern Methodist University for his advice and aid in the solution of the many nomenclatural problems encountered in the preparation of the bibliography. To Miss Elizabeth Julian and other members of the Fondren Library staff acknowledgments are also made for the assistance they rendered in locating and obtaining many of the volumes included in the bibliography.

The author wishes also to express his gratitude to Dr. John W. Wells of Cornell University and Dr. C. C. Albritton, Jr., of Southern Methodist University for reading the manuscript and offering many helpful suggestions.

Literature examined was obtained from the following libraries:
University of Illinois Library, Urbana, Illinois
Indiana University Library, Bloomington, Indiana
University of Iowa Library, Iowa City, Iowa
Louisiana State University Library, University, Louisiana
Harvard University, Museum of Comparative Zoology Library, Cambridge, Massachusetts
University of Michigan Library, Ann Arbor, Michigan
Agricultural and Mechanical College of Texas Library, College Station, Texas
Southern Methodist University Library, Dallas, Texas
Rice Institute Library, Houston, Texas
Texas Christian University Library, Fort Worth, Texas
University of Texas Library, Austin, Texas
University of Washington Library, Seattle, Washington
ABBREVIATIONS

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https://scholar.smu.edu/fondrenscienceseires/vol1/iss2/1
GENERAL REFERENCES


BIBLIOGRAPHY

ADKINS, WALTER SCOTT
Listing and in most cases descriptions of the Cretaceous fossils of Texas. Included are the descriptions of two corals, Hindeastraea discoidea White and Microbacia mineolensis Stephenson, from the Navarro of Kaufman and Wood counties, Texas.

BOLSCHE, WILHELM
Descriptions of the fossils of the Cretaceous formations of New Jersey. Included are the descriptions of two species of coral, Astraedia cretacea Bolsche and Parasmilia ballanophylloides Bolsche.

DALLAS PETROLEUM GEOLOGISTS
Geology of Dallas County, Texas. Field and Laboratory, vol. 10, no. 1, pp. 1-135, 3 pls., December, 1941.
General geology of Dallas County, Texas. An annotated check list of the fossils of the Eagle Ford formation includes one coral, Isastrea discoidea White.

DUNCAN, PETER MARTIN
Descriptions of two Upper Cretaceous corals, Heliastraea cyathiformis Duncan and Porites reussiana Duncan, with note of three others. These forms are listed by Duncan as being Lower Cretaceous in age; however, later authors have found them to all be Upper Cretaceous.

Summary of Duncan’s work on the fossil corals of the West Indies. Includes the descriptions of several new species of coral, none of which are Cretaceous in age. A chart, showing the geologic and geographic distribution of the various genera and species of fossil corals that have been described from the islands, includes the following Cretaceous forms: Diploria crassolamellosa Duncan, Heliastraea exsulca Reuss, Caitho-seris haidingeri Reuss, and Porites reussiana Duncan.

DURHAM, JOHN WYATT
Descriptions of twelve species and one variety of Cretaceous and Tertiary corals of the Pacific coast. One Upper Cretaceous form, Flabellum fresnoense Durham, is described.

FELIX, JOHANNES
Catalogue of Upper Cretaceous corals. Includes complete synonymy and [7]
FELIX, JOHANNES — Continued


FRECH, FELIX

Charles White: On Hindeastraea, a new generic form of Cretaceous Astraeidae, Neues Jahrbuch, Band I, 1889, p. 322. Review of White's paper (see White 4) on Hindeastraea discoidea from the Ripley group of Texas. The reviewer does not accept the new genus and refers the species to Isastrea.

GABB, WILLIAM MORE


HAUG, EMIL


HILL, ROBERT THOMAS


2. Check list of the invertebrate fossils from the Cretaceous formations of Texas, accompanied by notes on their geographic and geologic distribution, 16 pp., Austin, Texas, 1889. List includes one species of Upper Cretaceous coral, Isastrea discoidea White, from the shales at Eagle Ford, Texas.

HOFFMEISTER, JOHN EDWARD

A new fossil coral from the Cretaceous of Texas. U. S. Natl. Mus. Proc., vol. 76, art. 23, 3 pp., 2 pls., 1929. Description of Hindeastraea collinensis Hoffmeister from the Wolfe City sand of the Taylor marl, Collin Co., Texas. Included in addition to plates of H. collinensis are plates of H. discoidea White, the type of the genus.
BIBLIOGRAPHY OF UPPER CRETACEOUS CORALS

JOHNSON, CHARLES WILLISON

   List (no descriptions) of several invertebrate Cretaceous fossils from the Matawan Clay marls of New Jersey. The specimens were taken from an artesian well-boring at Mount Laurel, New Jersey. One coral, Platytrochus speciosus Gabb and Horn, is included in the listing.

   The content of this paper is essentially the same as Johnson 1.

   List includes one species of Upper Cretaceous coral, Trochocyathus woolmani Vaughan.

LOGAN, WILLIAM NEWTON

   Classification and description of the Upper Cretaceous invertebrates of Kansas. Includes note of an unidentified and undescribed coral from the Lincoln marble (Ft. Benton group) of Lincoln County, Kansas.

   Description of several invertebrate fossils from the Upper Cretaceous of Kansas. Included is a description of a new species of coral, Astrocoenia conica Logan, from the Lincoln marble (Ft. Benton group) of Mitchell County, Kansas.

MEEK, FIELDING BRADFORD

1. (and Hayden, F. V.) Description of new fossil species of Mollusca collected by Dr. F. V. Hayden in the Nebraska Territory together with a complete catalogue of all the remains of Invertebrata hitherto described and identified from the Cretaceous and Tertiary formations of that region. Phil. Acad. Nat. Sci. Proc., vol. 8, pp. 265-286, 1856.
   The catalogue includes two unidentified and undescribed corals from the upper zones of the Cretaceous of the Nebraska Territory.

   The catalogue includes one Upper Cretaceous coral, Micrabacia coronula Goldfuss.

3. Check list of the invertebrate fossils of North America; Cretaceous and Jurassic. Smiths. Misc. Coll. 7 (177), 40 pp., 1864.

Published by SMU Scholar,
MEEK, FIELDING BRADFORD — Continued

The list includes two species of Upper Cretaceous corals, Websteria cretacea Meek and Hayden and Microstizia millepunctata Meek.


Brief description of the Cretaceous and Tertiary stratigraphy of the upper Missouri country. Descriptions of the Cretaceous and Tertiary invertebrate fossils, including the following Upper Cretaceous corals: Micrabacia americana Meek and Hayden, Websteria cretacea Meek and Hayden, and Microstizia millepunctata Meek.

NOMLAND, JÖRGEN O.


Descriptions of two Upper Cretaceous corals, Trochocyathus oregonensis Nomland and T. pergranulatus Nomland, from the Chico series of Oregon and California. There are also descriptions of thirteen new species of Tertiary corals from the same region. A table is included showing the stratigraphic position of the thirty-four known species of Upper Cretaceous and Tertiary corals of the Pacific coast.

PERKINS, BOB F.


Description of Hindeastraea discoidea White from the Eagle Ford shale, Dallas County, Texas.

SHIMER, HERVEY W.


Brief, systematic descriptions and plates of the more useful North American index fossils. The following genera and species of coral from the Upper Cretaceous are described: Micrabacia cribraria Stephenson, M. rotatilis Stephenson, M. hilgardi Stephenson, M. americana Meek and Hayden, Goniopora reussiana (Duncan), Trochocyathus egerius (White), T. woolmani Vaughan, T. californianus Vaughan, Platytrochus Edwards and Haime, Parasmilia Edwards and Haime, and Hainesiastraea Vaughan.

STANTON, TIMOTHY WILLIAM


Historical analysis and discussion of the Cretaceous-Tertiary boundary problem of the Pacific coast. Included in a list of Upper Cretaceous and Lower Eocene fauna is one coral, Astrocoenia petrosa Gabb, from the Upper Cretaceous of California.

STEPHENSON, LLOYD WILLIAM


Brief description of the Cretaceous stratigraphy of the Charleston area based upon the section seen in a deep water well. One species of coral, Trochocyathus sp. aff. T. woolmani Vaughan, is reported from the Peedee Sand.

https://scholar.smu.edu/fondrenscienceseries/vol1/iss2/1
Descriptions of the fossil Coelenterata from the Upper Cretaceous formations of Maryland. Included are the descriptions of the following species of coral from the Monmouth formation: Platytrochus vaughani Stephenson, Micrabacia rotatilis Stephenson, and M. marylandica Stephenson.

Descriptions of the following species and varieties of Micrabacia Milne Edwards and Haime from the Atlantic and Gulf Coastal Plains and western interior of the United States: M. americana Meek and Hayden, M. americana var. multicoastata Stephenson, M. cribraria Stephenson, M. hilgardii Stephenson, M. marylandica Stephenson, M. mineolensis Stephenson, M. mississippiensis Stephenson, M. rotatilis Stephenson, and M. rotatilis var. georgiana Stephenson. A description of M. coronula Milne Edwards and Haime (the type of the genus) is given, although it is not known from the North American Cretaceous. A key to the species of the genus is also included.

Systematic paleontologic study of the invertebrate fossils of the Upper Cretaceous of North Carolina. Includes the description of one coral, Micrabacia cribraria Stephenson, from the Snow Hill calcareous member of the Black Creek formation.

TRECHMANN, CHARLES TAYLOR
Descriptions of fossils taken from near the top of Blue Mountain Peak, Jamaica. The fossils occur in the Blue Mountain Shale (Upper Cretaceous). One coral, Paracyathus (?) sp., is described.

VAUGHAN, THOMAS WAYLAND
Discussion of Duncan's work on the corals of Jamaica with corrections. The descriptions of Upper Cretaceous corals include the following: Porites reussiana Duncan, Mesomorpha catadupensis Vaughan, Leptophyllia agassizi Vaughan, Trochosoris catadupensis Vaughan, Diploria conferticostata Vaughan, D. conferticostata var. columnaris Vaughan, Multicolumnastraea cyathiformis Duncan, Cladocora jamaicaensis Vaughan and Trochosmilia hilli Vaughan.

General discussion concerning the coral faunas and systematic descriptions of the species. The doubtfully Cretaceous species described are as follows: Trochoeayathus californianus Vaughan, Favia merriami Vaughan, Haimesiastraee petrosa (Gabb), and Stephanocoenia fairbanksi Vaughan.

Description of a new species of coral, *Trochocyathus woolmani* Vaughan, from the Matawan clay marls of New Jersey.


The review includes descriptions of the families of the Order Fungida, with the original diagnoses of the various genera. The genera included which have been reported from the North American Upper Cretaceous are as follows: *Cyclolites* Lamarck, *Haplaraea* Milaschewitz, *Leptophyllia* Reuss, *Metethmos* Gregory, *Micrabacia* Milne Edwards and Haime, and *Trochoseros* Milne Edwards and Haime.


Included is a list of Eocene corals from St. Bartholomew and Jamaica. The Catadupa formation of Jamaica is given in the list as being Eocene; Vaughan states, however, “I seriously doubt the Catadupa corals being Eocene; it seems more probable that they are Cretaceous.” Later authors have considered the Catadupa corals to be Cretaceous. The Catadupa corals listed are as follows: *Trochosmilia hilli* Vaughan, *Leptoria conferticostata* (Vaughan), *L. conferticostata* var. *columnaris* (Vaughan), *Trochoseros catadupensis* Vaughan, and *Multicolumnastraea cyathiformis* (Duncan).


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WADE, BRUCE


Description of the megascopic invertebrate and vertebrate fossils of the Ripley formation on Coon Creek, Tennessee. Descriptions of the following corals are given: Micrabacia cribraria Stephenson, M. hilgardi Stephenson, and Trochosmilia nodosa Wade.

WELLER, STUART


Descriptions of the invertebrate fossils of the Cretaceous formations of New Jersey. The following Upper Cretaceous forms are described: Trochocyathus woolmani Vaughan, Micrabacia americana Meek and Hayden, and Paracyathus vaughani Weller. Also three species are described from formations which, at the time of the writing of the paper, were thought to be Cretaceous but are now known to be Eocene.

WELLS, JOHN WEST


Brief discussion of previous work on Cretaceous corals of North America, discussion of the stratigraphic distribution of Cretaceous corals in North America, and systematic descriptions of the North American species of Cretaceous corals. The systematic descriptions include the generic diagnoses as well as descriptions and notes regarding occurrences of the individual species. Also keys to the species of the various genera are given. The Upper Cretaceous species described are as follows: Platytyrochus vaughani (Stephenson), Steriphonotrochus ? manorensis Wells, Caryophyllia stephensi Wells, C. mississippiensis Wells, Trocho­cyathus egerius (White), T. woolmani Vaughan, T. taylorensis Wells, T. mississippiensis Wells, T. gardnerae Wells, Paracyathus ? vaughani Weller, Trochosmilia moorei Wells, Dasmosmilia reesidei Wells, Parasmilia ? balanophylloides Bolsche, Archohelia dartoni Wells, Hindeastraea discoidea White, H. collinensis Hoffmeister, Siderastrea cretacea (Bolsche), Wadeopsamnia nodosa (Wade), Micrabacia hilgardi Stephenson, H. hilgardi var. occidentalis Wells, M. marylandica Stephenson, M. navarroensis Wells, M. rotatilis, Stephenson, M. rotatilis var. georgiana Stephenson, M. cribraria Stephenson, M. arkansensis Wells, M. stephensi Wells, M. mississippiensis Stephenson, M. taylorensis Wells, M. americana Meek, M. americana var. multiecostata Stephenson, and M. mineolensis Stephenson.


Descriptions of Upper Cretaceous and Eocene corals from the West Indies.
WELLS, JOHN WEST — Continued


Descriptions of several new species of coral from the Eocene and Upper Cretaceous formations of Jamaica. The following Upper Cretaceous species are described: *Trechmannaria montararoe* Wells, *Meandreae clarendonensis* Wells, and *Elephantaria tottoni* Wells.


Descriptions of three new species of Cretaceous coral. Two species described from the Upper Cretaceous are as follows: *Astrangia lamarenensis* Wells and *Stenocyathus alabamiensis* Wells.

WHITE, CHARLES ABIATHAR


Descriptions include the following species of coral from the Fox Hills group at Fossil Ridge, Colorado: *Beaumontia ? solitaria* White and *Chaetetes ?? dimissus* White.


Descriptions of Cretaceous invertebrate fossils from Wyoming, Utah, Colorado, New Mexico, and Texas. Included are descriptions of the following species of Upper Cretaceous coral: *Caryophyllia egeria* White and *Caryophyllia johnnii* White.
Description of Cretaceous invertebrate fossils from the western United States. Included are the descriptions of the following corals from the Fox Hills group: Beaumontia ? solitaria White and Chaetetes ?? dimissus White.

Description of Hindeastraea discoidea White from the Navarro of Texas.

WOODRING, WENDELL P.
General geology of the Republic of Haiti. In a discussion of sedimentary rocks a list of the fossils of each formation is given. One undetermined species of coral is listed from the Upper Cretaceous and one undetermined species of the genus Actinacis is listed as being doubtfully Upper Cretaceous.
CATALOGUE OF GENERA AND SPECIES

ACTINACIS d'Orbigny, 1849

— n. sp. Wells
   Formation: Cardenas beds
   Location: San Luis Potosi, Mexico
— sp. Woodring
   Woodring, Geol. of the Republic of Haiti, 1924, p. 98, (name only)
   Formation: "Probably Upper Cretaceous"
   Location: Arrondissement of Jacmel, Haiti

ARCHOHELIA Vaughan, 1919

— dartoni Wells
   Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 223, pl. XII, figs. 11, 12; pl. XIV, figs. 31-35.
   Formation: Mancos Shale (Carlile zone)
   Location: Laney, New Mexico

ASTRAEA Lamarck, 1801

— cretacea Bolsche (also see Siderastrea cretacea)
   Formation: Plastic clay
   Location: Woodbury and Haddonfield, New Jersey

ASTRANGIA Milne Edwards and Haime, 1848

Vaughan, Geol. Soc. Am. Spec. Paper 44, 1943, p. 177, pl. XXXI, fig. 5
— lamarensis Wells
   Formation: Woodbine
   Location: Near Old Slate Shoals, Red River, Lamar County, Texas

ASTREOPORA de Blainville, 1830

— ? n. sp. Wells
   Formation: Cardenas beds
   Location: San Luis Potosi, Mexico
BIBLIOGRAPHY OF UPPER CRETACEOUS CORALS

ASTROCOENIA Milne Edwards and Haime, 1848

— conica Logan
Logan, Field Col. Mus. Pub. 36, Geol. Ser., vol. 1, no. 6, 1899, p. 25, pl. XXVI, fgs. 1, 2, 3
Formation: Ft. Benton (Lincoln marble horizon)
Location: Rattlesnake Creek, Mitchell County, Kansas
— dickersoni Wells
Wells, Bull. Am. Paleontology, vol. 26, no. 97, Feb. 17, 1941, p. 287, pl. II, fig. 4
Formation: Caribbean Upper Cretaceous
Location: Central Perseverancia, Santa Clara Province, Cuba
— petrosa Gabb (also see Haimesiastraea petrosa)
Gabb, Calif. Geol. Survey, Paleontology, vol. 1, 1864, p. 208, pl. XXXI, fig. 274, 274a
Formation: “... from a single mass of limestone ...”
Location: One mile west of Martinez, California
Gabb, Calif. Geol. Survey, Paleontology, vol. 2, 1869, p. 254, (name only)
Formation: Martinez group
Location: Martinez, California
Formation: Martinez group
Location: Martinez, California

BEAUMONTIA Milne Edwards and Haime, 1851

— ? solitaria White
White, U.S. Geol. and Geog. Survey of the Terr. (Hayden), Bull. 5, 1879, p. 221
Formation: Fox' Hills group
Location: Fossil Creek, Colorado
White, U.S. Geol. and Geog. Survey of the Terr. (Hayden), Ann. Rpt. 12, Pt. 1, 1883, p. 7, pl. XII, fgs. 13a, b, c
Formation: Fox Hills group
Location: Fossil Ridge, Ft. Collins, Colorado
Felix, Fossilium Catalogus, pars 7, 1914, p. 249, (name only)
Formation: Maestrichtien (Fox Hills group)
Location: Fossil Ridge, Colorado

CARYOPHYLLIA Lamarck, 1801

— egeria White (also see Trochocyathus egerius)
White, U.S. Geol. and Geog. Survey of the Terr. (Hayden), Ann. Rpt. 11, 1879, p. 275, pl. VI, fgs. 7a, b
Formation: Pierre Shale
CARYOPHYLLIA Lamarck, 1801 — Continued
Location: Sage Creek, upper Yampa River, Colorado
Felix, Fossilium Catalogus, pars 7, 1914, p. 251, (name only)
Formation: Kreide
Location: New Mexico
— johannis White (also see Trochocyathus egerius)
White, U. S. Geol. and Geog. Survey of the Terr. (Hayden),
Ann. Rpt. 11, 1879, p. 274, pl. VI, figs. 6a, b
Formation: Ft. Pierre; Fox Hills
Location: Cimarron, New Mexico
Felix, Fossilium Catalogus, pars 7, 1914, p. 210, (name only)
Formation: Senon ("Probably equivalent with Fort Pierre
and Fox Hills groups of the Upper Missouri.")
Location: Cimarron, New Mexico
— mississippiensis Wells
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933,
p. 126, pl. XIV, figs. 19, 20
Formation: Selma Chalk (Exogyra costata zone)
Location: Running Water Creek, Noxubee County, Missis-
ippi; Wakalak, Noxubee County, Mississippi
— stephensoni Wells
124, pl. XII, figs. 6, 7; pl. XIV, figs. 15-18
Formation: (1) Navarro; (2) Arkadelphia clay
Location: (1) Mustang Creek, Williamson County, Texas:
Zorn, Guadalupe County, Texas; Chatfield, Navarro County,
Texas; (2) Hope, Arkansas\(^2\)
CENTRASTREA d’Orbigny, 1849
— hilli Wells 1932 (MS)
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933,
p. 109, (name only)
Formation: Rudistid limestone
Location: Jamaica
pl. II, figs. 11, 12
Formation: Upper Cretaceous
Location: Catadupa, Jamaica
CHAETETES Fischer, 1829
— ?? dimissus White
White, U. S. Geol. and Geog. Survey of the Terr. (Hayden),
Bull. 5, 1879, p. 221
Formation: Fox Hills group
Location: Fossil Creek, Colorado
White, U. S. Geol. and Geog. Survey of the Terr. (Hayden),
Ann. Rpt. 12, Pt. 1, 1883, p. 7, pl. XII, fig. 14a
\(^2\)Locality numbers refer to formational numbers.
Formation: Fox Hills group
Location: Fossil Ridge, Ft. Collins, Colorado
Haug, Neues Jahrbuch 1883, p. 178
Formation: Fox Hills-Gruppe (Kreide)
Location: Colorado
Felix, Fossilium Catalogus, pars 7, 1914, p. 249, (name only)
Formation: Maestrichtien (Fox Hills group)
Location: Fossil Ridge, Colorado

CLADOCORA Ehrenberg, 1834
Vaughan, Geol. Soc. Am. Spec. Paper 44, 1943, p. 172, pl. XXIX, fig. 4
— jamaicaensis Vaughan
Vaughan, Harvard Coll., Mus. Comp. Zool., Bull. 34 (Geol. Ser. 4), 1899, p. 233, pl. XXXVI, figs. 5-7
Formation: Upper Cretaceous limestone
Location: Solomon Mountain, Jamaica
Felix, Fossilium Catalogus, pars 7, 1914, p. 171, (name only)
Formation: Obere Kreide
Location: Solomon Mountain, west of Mint, Westmoreland Parish, Jamaica
Wells, U. S. Natl. Mus. Proc., vol. 83, no. 2975, 1934, p. 72, (name only)
Formation: Upper Cretaceous
Location: Jamaica

— sp. cf. C. jamaicaensis Vaughan
Formation: Cardenas beds
Location: San Luis Potosi, Mexico

CYATHOSERIS Milne Edwards and Haime, 1849
— haidingeri (non Reuss) Duncan (also see Meandrea clarendonensis)
Duncan, Quart. Jour. Geol. Soc. London, vol. 21, 1865, pp. 7, 8, 12, (name only)
Formation: Upper Cretaceous
Location: Upper Clarendon district, Jamaica
Formation: Cretaceous
Location: Jamaica
Wells, U. S. Natl. Mus. Proc., vol. 83, no. 2975, 1934, p. 72, (name only)
Formation: Upper Cretaceous
Location: Jamaica
CYCLOLITES Lamarck, 1801


— *jamaicaensis* Wells 1932 (MS)

Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 109, (name only)

Formation: Upper Cretaceous

Location: Jamaica


Formation: Providence shales

Location: Providence, near Port Antonio, Jamaica

DACTYLOSMILIA d'Orbigny, 1849

— n. sp. Wells


Formation: Cardenas beds

Location: San Luis Potosi, Mexico

DASMOSMILIA Pourtales, 1880


— *reesidei* Wells

Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 221, pl. XII, figs. 8, 9; pl. XIV, figs. 25-29

Formation: (1) Navarro; (2) Selma chalk (Oktibbeha tongue); (3) Selma chalk (*Liopistha protexa* subzone); (4) Selma chalk (*Exogyra costata* zone below the *L. protexa* subzone)

Location: (1) Guadalupe River, McQueeney, Guadalupe County, Texas; (2) A. & M. College, Starkville, Oktibbeha County, Mississippi; (3) Prairie Bluff, Wilcox County, Alabama; (4) Running Water Creek, Noxubee County, Mississippi

DICHOCOENIA Milne Edwards and Haime, 1848

Vaughan, Geol. Soc. Am. Spec. Paper 44, 1943, p. 189, pl. XXXVII, figs. 3, 4

— *trechmanni* Wells 1932 (MS)

Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 109, (name only)

Formation: Rudistid limestone

Location: Jamaica


Formation: Rudistid limestone

Location: Logie Green section, Jamaica; near Catadupa, Jamaica
BIBLIOGRAPHY OF UPPER CRETACEOUS CORALS

DICTUOPHYLLIA de Blainville, 1830
— *conferticostata* (Vaughan)  (also see *Diploria conferticostata*, *D. crassolamellosa*, and *Leptoria conferticostata*)
Formation: (1) Rudistid limestone; (2) limestone; (3) dark limestone near igneous intrusion
Location: (1) Below Catadupa Station, Jamaica; (2) Cambridge-Catadupa railway cut, Jamaica; (3) Mooretown, Jamaica
— *conferticostata* var. *columnaris* (Vaughan) (also see *Diploria conferticostata* var. *columnaris* and *Leptoria conferticostata* var. *columnaris*)
Wells, U. S. Natl. Mus. Proc., vol. 83, no. 2975, 1934, p. 72, (name only)
Formation: Upper Cretaceous
Location: Jamaica

DIPLARAEA Milaschewitsch, 1876
— *? boltonae* Wells 1932 (MS)
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 109, (name only)
Formation: Rudistid limestone
Location: Jamaica
Formation: Upper Cretaceous
Location: Near Catadupa, Jamaica

DIPLORIA Milne Edwards and Haime, 1848
— *conferticostata* Vaughan (also see *Dictuophyllia conferticostata*)
Formation: Upper Cretaceous limestone
Location: Trout Hall, Jamaica; Upper Clarendon, Jamaica; Catadupa, Jamaica
— *conferticostata* var. *columnaris* Vaughan (also see *Dictuophyllia conferticostata* var. *columnaris*)
Vaughan, Harvard Coll., Mus. Comp. Zool., Bull. 34 (Geol. Ser. 4), 1899, p. 241, pl. XXXIX, fig. 4
Formation: Upper Cretaceous limestone
Location: Catadupa, Jamaica
— *crassolamellosa* Milne Edwards and Haime (also see *Dictuophyllia conferticostata*)
DIPLORIA Milne Edwards and Haime, 1848 — Continued
Duncan, Quart. Jour. Geol. Soc. London, vol. 21, 1865, pp. 7, 12, (name only)
Formation: Upper Cretaceous
Location: Trout Hall, Jamaica; Upper Clarendon district, Jamaica
Formation: Cretaceous
Location: Jamaica

ELEPHANTARIA Oppenheim, 1930
Vaughan, Geol. Soc. Am. Spec. Paper 44, 1943, p. 151, pl. XXII, fig. 5
— tottoni Wells
Wells, Annals and Mag. Nat. History, 10th ser., vol. 15, no. 86, 1935, p. 192, pl. XII, figs. 4, 5
Formation: Upper Cretaceous limestone
Location: Catadupa, Jamaica

FAVIA Oken, 1815
— merriami Vaughan
Vaughan, U. S. Geol. Survey, Mon. 39, 1900, pp. 32, 142, pl. XV, figs. 5-5c
Formation: Cretaceous?
Location: Southern California

FAVIOseris Wells, 1934
— anomalos Wells 1932 (MS)
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 109, (name only)
Formation: Rudistid limestone
Location: Jamaica
Formation: Limestone
Location: Near Catadupa, Jamaica

FELIXASTREA Oppenheim, 1930
Vaughan, Geol. Soc. Am. Spec. Paper 44, 1943, p. 131, pl. XVI, fig. 8
— ? n. sp. Wells
FLABELLUM Lesson, 1831
— *fresnoense* Durham
  Durham, Jour. Paleontology, vol. 17, 1943, p. 197, pl. XXXII, figs. 2, 3
  Formation: Upper Cretaceous
  Location: Fresno County, California

GONIOPORA de Blainville, 1830
  Shimer and Shrock, Index fossils of North America, 1944, p. 117, pl. VIII, figs. 16, 17

— *reussiana* (Duncan) (also see *Porites reussiana*)
  Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 109, (name only)
  Formation: Rudistid limestone
  Location: Jamaica

  Wells, U. S. Natl. Mus. Proc., vol. 83, no. 2975, 1934, p. 90, pl. IV, fig. 18; pl. V, figs. 4, 5
  Formation: Upper Cretaceous limestone
  Location: Railway cut between Cambridge and Catadupa, Jamaica

  Formation: Caribbean Upper Cretaceous limestone
  Location: Central Perseverancia, Santa Clara Province, Cuba; Esperanza, Havana Province, Cuba; Cambridge-Catadupa railway cut, Jamaica; “Upper Clarendon District,” Jamaica

  Shimer and Shrock, Index fossils of North America, 1944, p. 117, pl. VIII, figs. 16, 17
  Formation: Upper Cretaceous
  Location: Jamaica

— *trechmanni* Wells 1932 (MS)
  Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 109, (name only)
  Formation: Rudistid limestone
  Location: Jamaica

  Formation: (1) Upper Cretaceous limestone; (2) Actaeonella beds; (3) Providence shales
  Location: (1) Cambridge-Catadupa railway cut, Jamaica; (2)
GONIOPORA de Blainville, 1830 — Continued

east of Smithville, Jamaica; (3) Providence, near Port Antonio, Jamaica

HAIMESIASTRAEA Vaughan, 1900

Shimer and Shrock, Index fossils of North America, 1944, p. 122, pl. IVL, figs. 1-3

— petrosa (Cabb) (also see Astrocoenia petrosa)

Vaughan, U. S. Geol. Survey, Mon. 39, 1900, pp. 32, 146, pl. XVII, figs. 1-6
Formation: “... mass of limestone...”
Location: One mile west of Martinez, California

Formation: Upper Cretaceous
Location: Pacific coast

Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 117, (name only)
Formation: ?Upper Cretaceous
Location: West coast

HAPLARAEA Milaschewitsch, 1876


Vaughan, Geol. Soc. Am. Spec. Paper 44, 1943, p. 133, pl. XV, fig. 4; pl. XVI, fig. 9

— ? discrepans Wells

Formation: Caribbean Upper Cretaceous
Location: Central Perseverancia, Santa Clara Province, Cuba

HELIASTRAEA Milne Edwards and Haime, 1857

— cyathiformis (Duncan) (also see Multicolumnastraea cyathiformis)

Duncan, Quart. Jour. Geol. Soc. London, vol. 21, 1865, pp. 7, 8, pl. I, figs. 1a, b
Formation: Upper Cretaceous
Location: Trout Hall, Jamaica

Formation: Cretaceous
Location: Jamaica

— exsculpta (Duncan) (also see Multicolumnastraea cyathiformis)

Duncan, Quart. Jour. Geol. Soc. London, vol. 21, 1865, pp. 7, 8, 11, (name only)
Formation: Upper Cretaceous
BIBLIOGRAPHY OF UPPER CRETACEOUS CORALS

Location: Mt. Hindmost, Jamaica; Trout Hall, Jamaica; Cupuis, Jamaica
Formation: Cretaceous
Location: Jamaica

HINDEASTRAEA White, 1888
White, Geol. Mag., ser. 3, vol. 5, no. 8, 1888, p. 363, figs. 1-5
Vaughan, Geol. Soc. Am. Spec. Paper 44, 1943, p. 179, pl. XXXI, fig. 3
— collinensis Hoffmeister
Hoffmeister, U. S. Natl. Mus. Proc., vol. 27, art. 23, 1929, p. 2, pl. I, figs. 1, 1a, 2, 2a; pl. II, figs. 2, 3, 4
Formation: Taylor (Wolfe City sand)
Location: Farmersville, Collin County, Texas
Formation: Taylor (Wolfe City sand)
Location: Farmersville, Collin County, Texas

— discoidea White (also see Isastrea discoidea)
White, Geol. Mag., ser. 3, vol. 5, no. 8, 1888, p. 363, figs. 1-5
Formation: Ripley group
Location: Kaufman County, Texas
Frech, Neues Jahrbuch, Band I, 1889, p. 322
Formation: Ripley group
Location: Kaufman County, Texas
Adkins, Handbook of Texas Cretaceous fossils, Texas, Univ., Bull. no. 2838, 1928, p. 75
Formation: Navarro
Location: Kaufman County, Texas
Formation: Navarro
Location: Kaufman County, Texas
Formation: Navarro
Location: Near Terrell, Kaufman County, Texas
Perkins, Fondren Science Series, no. 2, 1951, pl. I, figs. 1-10, pl. II, figs. 1-9
Formation: Eagle Ford shale
Location: Arcadia Park, Dallas County, Texas

ISASTREA Milne Edwards and Haime, 1851
Vaughan, Geol. Soc. Am. Spec. Paper 44, 1943, p. 120, pl. X, fig. 13
ISASTREA Milne Edwards and Haime, 1851 — Continued
— discoidea White (also see Hindaeastrea discoidea)
Frèch, Neues Jahrbuch, Band I, 1889, p. 322
Formation: Ripley group
Location: Kaufman County, Texas
Hill, Texas Geol. Survey, Bull. 4, 1889, pp. 1, 25, 51, 53, (name only)
Formation: Eagle Ford shales
Location: Eagle Ford, Dallas County, Texas
Hill, Check list of the invertebrate fossils from the Cretaceous formations of Texas, 1889, p. 7, (name only)
Formation: Eagle Ford shales
Location: Eagle Ford, Dallas County, Texas
Felix, Fossilium Catalogus, pars 7, 1914, p. 174, (name only)
Formation: Senon (Ripley group)
Location: Kaufman County, Texas
Dallas Petroleum Geologists, Field and Laboratory, vol. 10, no. 1, 1941, p. 29, (name only)
Formation: Eagle Ford shales
Location: Eagle Ford, Dallas County, Texas

LEPTOPHYLLIA Reuss, 1854
Vaughan, Geol. Soc. Am. Spec. Paper 44, 1943, p. 131, pl. XV, fig. 2; pl. XVI, figs. 1, 2
— agassizi Vaughan
Formation: Upper Cretaceous limestone
Location: Solomon Mountain, Jamaica
Felix, Fossilium Catalogus, pars 7, 1914, p. 193, (name only)
Formation: Obere Kreide
Location: Solomon Mountain, west of Mint, Westmoreland Parish, Jamaica
Wells, U. S. Natl. Mus. Proc., vol. 83, no. 2975, 1934, p. 73, (name only)
Formation: Upper Cretaceous
Location: Jamaica
— sanchex-roigi Wells
Formation: Caribbean Upper Cretaceous
Location: Central Perseverancia, Santa Clara Province, Cuba

LEPTORIA Milne Edwards and Haime, 1848
— *conferticostata* Vaughan (also see *Dictuophyllia conferticostata*)
  Vaughan, U. S. Natl. Mus., Bull. 103, 1919, p. 194, (name only)
  Formation: Catadupa
  Location: Jamaica
  Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 109, (name only)
  Formation: Rudistid limestone
  Location: Jamaica

— *conferticostata* var. *columnaris* Vaughan (also see *Dictuophyllia conferticostata* var *columnaris*)
  Vaughan, U. S. Natl. Mus., Bull. 103, 1919, p. 194, (name only)
  Formation: Catadupa
  Location: Jamaica

— n. sp. aff. *L. conferticostata* Vaughan
  Formation: Cardenas beds
  Location: San Luis Potosi, Mexico

**MEANDRAREA** Etallon, 1859

— *clarendonensis* Wells (also see *Cyathoseris hadingeri*)
  Wells, Annals and Mag. Nat. History, 10th ser., vol. 15, no. 86, 1935, p. 191, pl. XI, fig. 1
  Formation: Upper Cretaceous limestone
  Location: Upper Clarendon district, Jamaica

**MESOMORPHA** Pratz, 1883

— *catadupensis* Vaughan
  Formation: Upper Cretaceous limestone
  Location: Catadupa, Jamaica
  Wells, U. S. Natl. Mus. Proc., vol. 83, no. 2975, 1934, p. 72, (name only)
  Formation: Upper Cretaceous
  Location: Jamaica

**METETHMOS** Gregory, 1900

— n. sp. Wells
  Formation: Cardenas beds
  Location: San Luis Potosi, Mexico

**MICRABACIA** Milne Edwards and Haime, 1849

— n. sp. Wells

Published by SMU Scholar,
MICRABACIA Milne Edwards and Haime, 1849 — Continued

Shimer and Shrock, Index fossils of North America, 1944, p. 117, pl. XLIII, figs. 7-15

— americana Meek and Hayden (also see Micrabacia coronula)
Meek and Hayden, U. S. Geol. Survey Terr. (Hayden), vol. 9, 1876, p. 1, pl. XXVIII, figs. 1, a, b, c, d
Formation: Fox Hills group
Location: Moreau River, South Dakota

Formation: (1) Merchantville clay-marl; (2) Woodbury Clay; (3) Wenonah Sand
Location: (1) Near Matawan, N. J.; (2) Near Lorillard, N. J.; near Haddenfield, N. J.; (3) Near Crawford’s Corner, N. J.

Stephenson, U. S. Geol. Survey, Prof. Paper 98, 1916, p. 118, pl. XX, figs. 4, 5
Formation: (1) Fox Hills sandstone; (2) Bearpaw Shale; Pierre Shale; (3) Montana group
Location: (1) Moreau River, South Dakota; (2) Moorcroft, Wyoming; (3) Mingusville, Montana

Formation: (1) Fox Hills sandstone; (2) Mesaverde group
Location: (1) Moreau River, South Dakota; San Juan Basin, New Mexico; (2) Greasewood Dome, near Jackson Reservoir, Morgan County, Colorado

Shimer and Shrock, Index fossils of North America, 1944, p. 117
Formation: Upper Cretaceous (Pierre, Fox Hills)
Location: South Dakota, Montana, Wyoming, New Mexico

— americana var. multicostata Stephenson
Stephenson, U. S. Geol. Survey, Prof. Paper 98, 1916, p. 119, pl. XX, fig. 6
Formation: Montana group (upper part)
Location: Mingusville, Montana

Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 251, pl. XIII, fig. 9
Formation: “Probably upper Montana group . . .”
Location: “. . . perhaps from the locality 20 miles southwest of Mingusville, Montana.”

— arkansasensis Wells
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 245, pl. XV, figs. 21, 22
BIBLIOGRAPHY OF UPPER CRETACEOUS CORALS

Formation: Taylor (Upper Marlbrook marl)
Location: Arkadelphia, Clark County, Arkansas
— coronula Goldfuss (also see Micrabacia americana)
Meek and Hayden, Phil. Acad. Nat. Sci. Proc., vol. 12, 1860, p. 430, (name only)
Formation: Cretaceous
Location: Nebraska
— cribriaria Stephenson
Stephenson, U. S. Geol. Survey, Prof. Paper 98, 1916, p. 117, pl. XX, figs. 1-3
Formation: (1) Black Creek (Exogyra pondsosara zone); (2) Ripley; (3) Selma Chalk
Location: (1) North Carolina; (2) Alabama; (3) Lee County, Mississippi
Stephenson, North Carolina Geol. and Econ. Survey, vol. 5, Pt. 1, 1923, p. 66, pl. IX, figs. 15-17
Formation: (1) Black Creek (Snow Hill calcareous member); (2) Lower Ripley (Upper Exogyra ponderosa zone); (3) Lower Selma Chalk (Upper Exogyra ponderosa zone)
Location: (1) Whiteley Creek Landing, Neuse River, North Carolina; Kerr’s Cove, Black River, North Carolina; (2) Union Springs at “Conecuh Falls”, Alabama; cut of Georgia Railway, half mile west of Union Springs, Alabama; (3) Tupelo Road, west of Fulton, Lee County, Mississippi
Wade, U. S. Geol. Survey, Prof. Paper 137, 1926, p. 27, pl. I, figs. 9, 10
Formation: (1) Ripley; (2) Black Creek (Snow Hill marl member); (3) Ripley (Exogyra ponderosa zone); (4) Selma Chalk (Upper Exogyra ponderosa zone)
Location: (1) Dave Week’s place on Coon Creek, McNairy County, Tennessee; (2) Whiteley Creek Landing, Neuse River, North Carolina; Kerr’s Cove, Black River, North Carolina; (3) Union Springs at “Conecuh Falls”, Alabama; (4) Tupelo Road, Lee County, Mississippi
Formation: (1) Black Creek (Snow Hill calcareous member); (2) Selma Chalk
Location: (1) Whiteley Creek Landing, Neuse River, North Carolina; Kerr’s Cove, Black River, North Carolina; (2) Tupelo road, Fulton, Lee County, Mississippi
Shimer and Shrock, Index fossils of North America, 1944, p. 117, pl. XLVI, figs. 14, 15
Formation: Upper Cretaceous (Exogyra ponderosa zone)
Location: Atlantic and eastern Gulf Coastal Plain
MICRABACIA Milne Edwards and Haime, 1849 — Continued

— hilgardi Stephenson

Stephenson, U. S. Geol. Survey, Prof. Paper 98, 1916, p. 120, pl. XXII, figs. 1-6
Formation: Ripley (Exogyra costata zone)
Location: Union County, Mississippi; Eufaula, Alabama; Quitman County, Georgia

Formation: Ripley (Exogyra costata zone)
Location: Dave Week's place on Coon Creek, McNairy County, Tennessee; Lee's Old Mill site, Keownville, Union County, Mississippi; Eufaula, Alabama; Mercer's Mill Creek, Georgetown, Georgia; Chattahoochee River, Eufaula, Alabama

Formation: Exogyra costata zone
Location: Keownville, Union County, Mississippi; Eufaula, Alabama; Mercer's Mill Creek, Georgetown, Georgia; Chattahoochee River, Eufaula, Alabama; Coon Creek, McNairy County Tennessee

Shimer and Shrock, Index fossils of North America, 1944, p. 117, pl. XLVI, figs. 7-10
Formation: Upper Cretaceous (Exogyra costata zone)
Location: Gulf Coast

— hilgardi var. occidentalis Wells

Location: Corsicana, Navarro County, Texas; Kaufman, Kaufman County, Texas

— marylandica Stephenson

Formation: Monmouth (Exogyra costata zone)
Location: Prince George's County, Maryland

Stephenson, U. S. Geol. Survey, Prof. Paper 98, 1916, p. 121, pl. XXII, figs. 7-10
Formation: Monmouth
Location: Prince George's County, Maryland

Formation: Monmouth (Exogyra costata zone)
Location: Prince George's County, Maryland

— mineolensis Stephenson

Stephenson, U. S. Geol. Survey, Prof. Paper 98, 1916, p. 122, pl. XXIII, figs. 6-8
Formation: Navarro
Location: Wood County, Texas
BIBLIOGRAPHY OF UPPER CRETACEOUS CORALS

Adkins, Handbook of Texas Cretaceous fossils, Texas, Univ., Bull. no. 2838, 1928, p. 77
Formation: Navarro (probably)
Location: Wood County, Texas
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 252, pl. XV, figs. 8-13
Formation: Navarro
Location: Mineola, Wood County, Texas; Onion Creek, Travis County, Texas; Big Caddo Creek, Quinlan, Hunt County, Texas

— mississippiensis Stephenson
Formation: Ripley (Exogyra costata zone)
Location: Union County, Mississippi
Formation: Exogyra costata zone
Location: Keownville, Union County, Mississippi

— navarroensis Wells
Formation: Navarro
Location: Lockhart, Caldwell County, Texas

— rotatilis Stephenson
Stephenson, Md. Geol. Survey, Upper Cretaceous, 1916, p. 753, pl. XLIX, figs. 1-4
Formation: Monmouth
Location: Prince George's County, Maryland
Formation: Monmouth
Location: Brightseat, Maryland
Formation: Monmouth
Location: Prince George's County, Maryland
Shimer and Shrock, Index fossils of North America, 1944, p. 117, pl. XLIII, figs. 11-13
Formation: Upper Cretaceous (Exogyra costata zone)
Location: Maryland

— rotatilis var. georgiana Stephenson
Stephenson, U. S. Geol. Survey, Prof. Paper 98, 1916, p. 120, pl. XXI, figs. 5-8
Formation: Ripley (upper part of Exogyra costata zone)
Location: Georgetown, Quitman County, Georgia
MICRABACIA Milne Edwards and Haime, 1849 — Continued
Formation: *Exogyra costata* zone
Location: Mercer’s Mill Creek, near Georgetown, Quitman County, Georgia

— *stephensoni* Wells
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 246, pl. XV, figs. 18-20
Formation: Upper Taylor marl
Location: Cottonwood Creek, Manda, Travis County, Texas; Kimbro, Travis County, Texas; Brushy Creek, Williamson County, Texas

— *tayloriensis* Wells
Formation: (1) Taylor marl; (2) basal Taylor
Location: (1) Mustang Creek, Taylor, Williamson County, Texas; Austin, Travis County, Texas; San Marcos, Hays County, Texas; (2) Big Walnut Creek, Sprinkle, Travis County, Texas

MICROSTIZIA Meek, 1876
Meek, U. S. Geol. Survey Terr. (Hayden), vol. 9, 1876, p. 4, pl. XXVIII, figs. 2, a, b, c

— *millepunctata* Meek
Meek, Smiths. Misc. Coll. 7 (177), 1864, p. 2, (name only)
Formation: Cretaceous
Location: Nebraska
Meek, U. S. Geol. Survey Terr. (Hayden), vol. 9, 1876, p. 4, pl. XXVIII, figs. 2, a, b, c
Formation: Fox Hills group
Location: Moreau River, Nebraska

MONTASTREA de Blainville, 1830

— *cubana* Wells
Formation: Caribbean Upper Cretaceous
Location: Central Perseverancia, Santa Clara Province, Cuba

MULTICOLUMNASTREA Vaughan, 1899
Vaughan, Harvard Coll., Mus. Comp. Zool., Bull. 34 (Geol. Ser. 4), 1899, p. 235, pl. XXXVII, figs. 5-7; pl. III, fig. 1

— *cyathiformis* (Duncan) (also see *Heliastrea cyathiformis* and *H. exsculpta*)
BIBLIOGRAPHY OF UPPER CRETACEOUS CORALS

Ser. 4), 1899, p. 236, pl. XXXVII, figs. 5-7, pl. III, fig. 1
Formation: Upper Cretaceous limestone
Location: Catadupa, Mount Hindmost, District of Clarendon, Jamaica
Vaughan, U. S. Natl. Mus., Bull. 103, 1919, p. 194, (name only)
Formation: Catadupa
Location: Jamaica
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 109, (name only)
Formation: Rudistid limestone
Location: Jamaica
Formation: Rudistid limestone
Location: Logie Green section, Jamaica

PARACYATHUS Milne Edwards and Haime, 1848
— kayserensis Vaughan
Formation: Lance (Cannonball marine member)
Location: Kayser, North Dakota
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 117, (name only)
Formation: Lance (Cannonball marine member)
Location: North Dakota

— lloydii Vaughan
Formation: Lance (Cannonball marine member)
Location: Leith, North Dakota
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 117, (name only)
Formation: Lance (Cannonball marine member)
Location: North Dakota

— thomi Vaughan
Vaughan, U. S. Geol. Survey, Prof. Paper 128-A, 1920, p. 63, pl. X, figs. 4-4b
Formation: Lance (Cannonball marine member)
Location: Leith, North Dakota
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 117, (name only)
Formation: Lance (Cannonball marine member)
Location: North Dakota
PARACYATHUS Milne Edwards and Haime, 1848 — Continued
— vaughani Weller
Formation: Navesink marl
Location: Mullica Hill, New Jersey
Formation: Navesink marl
Location: Mullica Hill, New Jersey

— ? sp. Trechmann
Trechmann, Geol. Mag. 785, vol. 66, 1929, p. 485, pl. XVIII, figs. 11, 12
Formation: Blue Mountain shale
Location: Blue Mountain Peak, Jamaica
Wells, U. S. Natl. Mus. Proc., vol. 83, no. 2975, 1934, p. 72, (name only)
Formation: Upper Cretaceous
Location: Jamaica

PARACYCLOLITES Wells, 1933
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 197, pl. II, fig. 19; pl. X, figs. 5-8
— sp. aff. P. elizabethae Wells (MS)
Formation: Cardenas beds
Location: San Luis Potosi, Mexico

PARACYCLOSERIS Wells, 1934
Wells, U. S. Natl. Mus. Proc., vol. 83, no. 2975, 1934, p. 85, pl. III, figs. 5-10; pl. V, figs. 1, 2
— elizabethae Wells 1932 (MS)
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 109, (name only)
Formation: Rudistid limestone
Location: Jamaica
Wells, U. S. Natl. Mus. Proc., vol. 83, no. 2975, 1934, p. 86, pl. III, figs. 5-10; pl. V, figs. 1, 2
Formation: Upper Cretaceous
Location: Catadupa, Jamaica
BIBLIOGRAPHY OF UPPER CRETACEOUS CORALS

Location: (1) Central Perseverancia, Santa Clara Province, Cuba; Madruga, Havana Province, Cuba; Catadupa, Jamaica; (2) San Luis Potosi, Mexico

PARASMILIA Milne Edwards and Haime, 1848
Shimer and Shrock, Index fossils of North America, 1944, p. 121, pl. XLV, figs. 30-32
— balanophylloides Bolsche
Formation: Upper Cretaceous
Location: Woodbury, New Jersey
Formation: Marshalltown clay
Location: Woodbury, New Jersey

PLACOCOENIA d’Orbigny, 1849
— ? n. sp. Wells
Formation: Cardenas beds
Location: San Luis Potosi, Mexico

PLATYTROCHUS Milne Edwards and Haime, 1848
Vaughan, Geol. Soc. Am. Spec. Paper 44, 1943, p. 212, pl. XLIII, fig. 2; pl. XLV, figs. 9-12
Shimer and Shrock, Index fossils of North America, 1944, p. 121, pl. XLV, figs. 20, 21, 24-26
— speciosus Gabb and Horn (also see Trochocyathus woolmani)
Formation: Matawan clay-marls
Location: Mount Laurel, New Jersey
Johnson, Phil. Acad. Nat. Sci. Proc., vol. 50, 1898, p. 462, (name only)
Formation: Matawan clay-marls
Location: Mount Laurel, New Jersey
— vaughani (Stephenson) (also see Trochocyathus vaughani)
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 122, pl. XII, fig. 4; pl. XIV, figs. 13, 14
Formation: Monmouth (Exogyra costata zone)
Location: Brightseat, Prince George’s County, Maryland

PLEUROCORA Milne Edwards and Haime, 1848
PLEUROCORA Milne Edwards and Haime, 1848 — Continued
— n. sp. Wells
  Formation: Cardenas beds
  Location: San Luis Potosi, Mexico

PORITES Link, 1807
— reussiana Duncan (also see Goniopora reussiana)
  Duncan, Quart. Jour. Geol. Soc. London, vol. 21, 1865, pp. 7, 8, 12, pl. I, fig. 2
  Formation: Upper Cretaceous
  Location: Upper Clarendon district, Jamaica
  Formation: Cretaceous
  Location: Jamaica
  Formation: Upper Cretaceous limestone
  Location: Upper Clarendon district, Jamaica

PRODIPLOASTREA Wells, 1934
— schindewolfi Wells 1932 (MS)
  Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 109, (name only)
  Formation: Rudistid limestone
  Location: Jamaica
  Formation: Upper Cretaceous limestone
  Location: Cambridge-Catatupa railway cut, Jamaica

RHABDOPHYLLIA Milne Edwards and Haime, 1851
— quaylei Wells 1932 (MS)
  Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 109, (name only)
  Formation: Rudistid limestone
  Location: Jamaica
  Formation: Rudistid limestone overlying the Trappean shales
  Location: Cambridge-Catatupa railway cut, Jamaica

SIDERASTREA de Blainville, 1830
  Vaughan, Geol. Soc. Am. Spec. Paper 44, 1943, p. 126, pl. II, fig. 3; pl. XIII, figs. 1-5
BIBLIOGRAPHY OF UPPER CRETACEOUS CORALS

— *cretacea* (Bolsche)  (also see *Astrea cretacea*)
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 226, pl. XII, fig. 13; pl. XV, fig. 26
Formation: (1) Marshalltown clay; (2) lowest Navarro
Location: (1) Woodbury and Haddonfield, New Jersey; (2) Cameron-Burlington road, Milam County, Texas

**STENOCYATHUS** Pourtales, 1871
— *alabamiensis* Wells
Formation: Prairie Bluff chalk
Location: Linden, Marengo County, Alabama

**STEPHANOCEenia** Milne Edwards and Haime, 1848
— *fairbanksi* Vaughan
Vaughan, U. S. Geol. Survey, Mon. 39, 1900, pp. 32, 151, pl. XVII, figs. 10-11a
Formation: Doubtfully Cretaceous
Location: Southern California
— *fairbanksi* var. *columnaria* Vaughan
Vaughan, U. S. Geol. Survey, Mon. 39, 1900, pp. 32, 151, pl. XVII, figs. 10, 11
Formation: Doubtfully Cretaceous
Location: Southern California

**STERIPHONOTROCHUS** Vaughan, 1900
— *leithensis* Vaughan
Vaughan, U. S. Geol. Survey, Prof. Paper 128-A, 1920, p. 64, pl. X, figs. 6-6b
Formation: Lance (Cannonball marine member)
Location: Leith, North Dakota
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 117, (name only)
Formation: Lance (Cannonball marine member)
Location: North Dakota
— *manorensis* Wells
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 123, pl. XIV, fig. 21
Formation: Middle Navarro
Location: Manor, Travis County, Texas

**STIBORIOPSIS** Vaughan, 1899
Vaughan, Harvard Coll., Mus. Comp. Zool., Bull. 34 (Geol. Ser. 4), 1899, p. 237, pl. XXXVIII, fig. 4
— *jamaicaensis* Vaughan
STIBORIOPSIS Vaughan, 1899 — Continued
Ser. 4), 1899, p. 238, pl. XXXVIII, figs. 2-4
Formation: Blue Mountain series
Location: Carigie Parish, Jamaica
Wells, U. S. Natl. Mus. Proc., vol. 83, no. 2975, 1934, p. 72,
(name only)
Formation: Upper Cretaceous
Location: Jamaica

SYNASTREA Milne Edwards and Haime, 1848
Vaughan, Geol. Soc. Am. Spec. Paper 44, 1943, p. 132, pl. XVI,
fig. 5
— ?adkinsi Wells 1932 (MS)
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933,
p. 109, (name only)
Formation: Rudistid limestone
Location: Jamaica
pl. III, fig. 14, 15
Formation: Upper Cretaceous limestone
Location: Cambridge-Catatupa railway cut, Jamaica
— n. sp. Wells
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933,
p. 111, (name only)
Formation: Cardenas beds
Location: San Luis Potosi, Mexico

TRECHMANNARIA Wells, 1935
86, 1935, p. 189, pl. XI, figs. 2, 3
— montanaroe Wells
86, 1935, p. 190, pl. XI, figs. 2, 3
Formation: Upper Cretaceous limestone
Location: Mooretown, Jamaica

TROCHOCYATHUS Milne Edwards and Haime, 1848
figs. 7-9
Shimer and Shrock, Index fossils of North America, 1944, p.
121, pl. XLIV, figs. 14-16; pl. XLV, figs. 1-10
— californianus Vaughan
VII, figs. 10-13
Formation: Cretaceous
Location: San Joaquin coal mine, California
— *dakotaensis* Vaughan
Vaughan, U. S. Geol. Survey, Prof. Paper 128-A, 1920, p. 61, pl. X, figs. 1-1b
Formation: Lance (Cannonball marine member)
Location: Kayser, North Dakota
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 117, (name only)
Formation: Lance (Cannonball marine member)
Location: North Dakota

— *egerius* (White)  
(also see *Caryophyllia johannis* and *C. egerius*)
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 210, pl. XII, figs. 1-3; pl. XIV, figs. 1-3
Formation: (1) Pierre shale; (2) Lewis shale
Location: (1) Sage Creek, upper Yampa River, northwestern Colorado; Dry Creek, Black Hills, South Dakota; (2) Terrible Creek, northwestern Colorado
Shimer and Shrock, Index fossils of North America, 1944, p. 121, pl. XLV, figs. 3, 4
Formation: Upper Cretaceous (Pierre, Lewis)
Location: Western Interior of the U. S. A.

— *gardnerae* Wells
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 217, pl. XIV, figs. 8-10
Formation: Navarro
Location: Onion Creek, Travis County, Texas; Currie, Navarro County, Texas; Corbet, Navarro County, Texas

— *matleyi* Wells 1932 (MS)
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 109, (name only)
Formation: Upper Cretaceous
Location: Jamaica
Formation: Hard, calcareous, blue, concretionary mudstone
Location: Blue Mountain Peak, Jamaica

— *mississippiensis* Wells
Formation: *Exogyra ponderosa* zone
Location: West Point, Mississippi

— sp. cf. *T. mississippiensis* Wells
Formation: Caribbean Upper Cretaceous
Location: Central Perseverancia, Santa Clara Province, Cuba
TROCHOCYATHUS Milne Edwards and Haime, 1848 — Continued

— ?newmani Vaughan
Formation: Lance (Cannonball marine member)
Location: Kayser, North Dakota
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 117, (name only)
Formation: Lance (Cannonball marine member)
Location: North Dakota

— oregonensis Nomland
Formation: Lower Chico
Location: Forty-nine mine, Jackson County, Oregon
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 117, (name only)
Formation: Chico series
Location: West coast

— pergranulatus Nomland
Formation: Chico
Location: Mount Diablo, Contra Costa County, California
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 117, (name only)
Formation: Chico series
Location: West coast

— taylorensis Wells
Formation: Basal beds of Taylor marl
Location: Walnut Creek, Austin, Texas; Austin-Manor road, Travis County, Texas

— ?vaughani Stephenson (also Platytrochus vaughani)
Stephenson, Md. Geol. Survey, Upper Cretaceous, 1916, p. 752, pl. XLVIII, figs. 5, 6
Formation: Monmouth (Exogyra costata zone)
Location: Prince George’s County, Maryland

— woolmani Vaughan (also see Platytrochus speciosus)
Formation: Matawan clay-marls
Location: Mt. Laurel, New Jersey
Formation: Cretaceous
BIBLIOGRAPHY OF UPPER CRETACEOUS CORALS

Location: (not given)
Weller, Geol. Survey of N. J., Paleontology Series, vol. 4, Pt. 2, 1907, p. 268, pl. V, figs. 5-7
Formation: Woodbury Clay
Location: Mt. Laurel, New Jersey
Felix, Fossilium Catalogue, pars 7, 1914, p. 209, (name only)
Formation: Obere Kreide (Matawan Clay Marls)
Location: New Jersey
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 213, pl. XIV, figs. 4-7
Formation: (1) Matawan clay marls; (2) Ripley; (3) Navarro (Exogyra cancellata zone)
Location: (1) Mt. Laurel, New Jersey; (2) Chattahoochee River, Columbus, Georgia; (3) Corbet, Navarro County, Texas; Corsicana, Navarro County, Texas
Shimer and Shrock, Index fossils of North America, 1944, p. 121, pl. XLV, figs. 5-7
Formation: Upper Cretaceous (Exogyra cancellata zone)
Location: New Jersey, Georgia, Texas
— sp. aff. T. woolmani Vaughan
Stephenson, U. S. Geol. Survey, Prof. Paper 90, 1914, p. 81, (name only)
Formation: Peedee Sand
Location: Charleston, South Carolina

TROCHOSERIS Milne Edwards and Haime, 1849
— catadupensis Vaughan
Vaughan, Harvard Coll., Mus. Comp. Zool., Bull. 34 (Geol. Ser. 4), 1899, p. 242, pl. XXXIX, figs. 5, 6
Formation: Upper Cretaceous limestone
Location: Catadupa, Jamaica
Vaughan, U. S. Natl. Mus., Bull. 103, 1919, p. 194, (name only)
Formation: Catadupa
Location: Jamaica
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 109, (name only)
Formation: Rudistid limestone
Location: Jamaica
Formation: (1) Limestone; (2) shale under the rudistid limestone
TROCHOSERIS Milne Edwards and Haime, 1849 — Continued
   Location: (1) Near Catadupa, Jamaica; (2) Cambridge-Catatupa railway cut, Jamaica
   Formation: Rudistid limestone
   Location: Matanzas, Matanzas Province, Cuba; Catadupa, Jamaica

— n. sp. Wells
   Formation: Cardenas beds
   Location: San Luis Potosi, Mexico

TROCHOSMILIA Milne Edwards and Haime, 1848
   Vaughan, Geol. Soc. Am. Spec. Paper 44, 1943, p. 185, pl. XXXIV, fig. 5

— ? granulifera Gabb
   Gabb, Calif. Geol. Survey, Paleontology, vol. 1, 1864, p. 208, pl. XXVI, figs. 196, 196a
   Formation: Division A
   Location: Near Chico Creek, California
   Gabb, Calif. Geol. Survey, Paleontology, vol. 2, 1869, p. 254, (name only)
   Formation: Chico group
   Location: Chico Creek, California
   Formation: Upper Cretaceous
   Location: Pacific coast
   Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 117, (name only)
   Formation: Chico series
   Location: West coast

— hilli Vaughan
   Formation: Upper Cretaceous limestone
   Location: Catadupa, Jamaica
   Vaughan, U. S. Natl. Mus., Bull. 103, 1919, p. 194, (name only)
   Formation: Catadupa
   Location: Jamaica

— moorei Wells
   Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 219, pl. XIV, fig. 30
Formation: Mancos shale  
Location: Henrieville, Garfield County, Utah
— *nodosa* Wade  
(Also see *Wadeopsammia nodosa*)
Formation: Ripley
Location: Dave Week's place on Coon Creek, McNairy County, Tennessee

**VAUGHANOSERIS** Wells, 1934
Vaughan, Geol. Soc. Am. Spec. Paper 44, 1943, p. 185, pl. XXXIV, fig. 6
— *catadupensis* Wells 1932 (MS)
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 109, (name only)
Formation: Rudistid limestone
Location: Jamaica
Formation: Upper Cretaceous
Location: Catadupa, Jamaica; Cambridge-Catadupa railway cut, Jamaica

**WADEOPSAMMIA** Wells, 1933
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 227, pl. XII, figs. 14, 15; pl. XV, figs. 23-25
— *nodosa* (Wade)  
(Also see *Trochosmilia nodosa*)
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 228, pl. XII, figs. 14, 15; pl. XV, figs. 23-25
Formation: (1) Ripley; (2) Navarro
Location: (1) Coon Creek, McNairy County, Tennessee; (2) Mustang Creek, Williamson County, Texas

**WEBSTERIA** Milne Edwards and Haime, 1854
Meek, U. S. Geol. Survey Terr. (Hayden), vol. 9, 1876, p. 2
— *cretacea* Meek and Hyden
Meek, Smiths. Misc. Coll. 7 (177), 1864, p. 2, (name only)
Formation: Cretaceous
Location: Dakota
Meek, U. S. Geol. Survey Terr. (Hayden), vol. 9, 1876, p. 3, pl. XXVIII, figs. 3, a, b, c
Formation: Fox Hills group
Location: Cheyenne River near the Black Hills
INDETERMINATE SPECIES

— "small slender coral"
  Meek, Phil. Acad. Nat. Sci. Proc., vol. 8, 1856, p. 286, (name only)
  Formation: Upper Cretaceous
  Location: Ft. Pierre and Missouri River, Nebraska Territory

— "small discoid coral"
  Meek, Phil. Acad. Nat. Sci. Proc., vol. 8, 1856, p. 286, (name only)
  Formation: Upper Cretaceous
  Location: Bear and Sage Creeks, Fox Hills, Nebraska Territory

— unidentified sp.
  Logan, Kans. Univ. Geol. Survey, vol. 4, 1898, p. 443, (name only)
  Formation: Ft. Benton group (Lincoln marble horizon)
  Location: Lincoln County, Kansas

— "undetermined coral"
  Woodring, Geology of the Republic of Haiti, 1924, p. 98, (name only)
  Formation: Limestone of Massif du Nord
  Location: Arrondissement of Cap-Haitien, Haiti

— indeterminate sp.
  Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 120, (name only)
  Formation: Anona chalk
  Location: Arkansas

— indeterminate sp.
  Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 120, (name only)
  Formation: Ozan marl
  Location: Sevier County, Arkansas

— indeterminate sp.
  Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 120, (name only)
  Formation: Blossom sand
  Location: Lamar County, Texas

— indeterminate sp.
  Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 120, (name only)
  Formation: Wolfe City sand
  Location: Collin County, Texas

— indeterminate sp.
  Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 120, (name only)
Formation: Selma chalk
Location: Alabama, Mississippi
— indeterminate sp.
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 120, (name only)
Formation: Selma chalk (*Exogyra costata* zone below *Liopista protexa* subzone)
Location: Alabama, Mississippi
— indeterminate sp.
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 120, (name only)
Formation: Selma chalk (*Liopister protexa* subzone)
Location: Alabama
— indeterminate sp.
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 120, (name only)
Formation: Basal Selma chalk
Location: Alabama
— indeterminate sp.
Wells, Bull. Am. Paleontology, vol. 18, no. 67, Aug. 3, 1933, p. 120, (name only)
Formation: Selma chalk (top)
Location: Alabama
PLATE

Distribution of the species of North American Upper Cretaceous corals, with reference to the distribution of Late Cretaceous land masses and seaways.