

Florida Paleontological Society, Inc.  
***Newsletter***



**Volume 11 Number 3 Summer Quarter 1994**

# FLORIDA PALEONTOLOGICAL SOCIETY, INC.

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Margaret C. Thomas   Anita Brown   Lelia and William Brayfield   David Webb   Gary Morgan

## INFORMATION, MEMBERSHIP, AND PUBLICATION INFORMATION

Please Address: Secretary, Florida Paleontological Society, Inc.  
Florida Museum of Natural History  
University of Florida  
Gainesville, FL 32611

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**VOTE for new FPS Officers...see ballot, page 9**

**FPS FALL MEETING**  
**October 29, 1994**  
**Gainesville, FL**

*Featuring:*

**Talks on the famous Thomas Farm fossil fauna**  
**Tours and fossil identifications at the FLMNH**  
**Banquet Dinner and Fossil Auction**

**See Information and registration**  
**form, pages 13-15 inside!**

## President's Report

With the upcoming Fall Meeting, my tenure as FPS President draws to an end. In retrospect, it has been an interesting, challenging, and enjoyable two years. I have attempted to take a balanced approach to managing the affairs of our society, an approach dictated by the varied interests of our diverse membership.

My job has been made much easier by the assistance of a truly outstanding and dedicated slate of officers and Board members. I want to personally thank the current officers Gordon Hubbell, Eric Taylor, and Phil Whisler, as well as all the Board Members and the often under-recognized committee members for so ably giving of their time, talents and energy. The FPS is depends heavily on these volunteers, and is definitely a better organization for their efforts.

The last two years have seen some significant accomplishments by the FPS. Some of these are new programs, conceived in large part by individual members and designed to enhance the science of paleontology in Florida. During 1992, we initiated the FPS liaison program. This program stemmed from the recognized need for a traveling representative to network with other amateur clubs statewide and foster communication and interaction between professionals, amateurs, and the FPS. Lacking the funds for a full time representative, Eric Taylor has successfully served the position in a volunteer capacity, visiting other clubs and distributing information about the FPS.

We also presented the first in a hopefully long series of annual FPS Student Research Awards in 1993. This is a monetary award designed to assist paleontology students at Florida colleges with their research work. Recipients are selected by a three-member committee based on a brief research proposal. The award is presently fixed at \$500, and is intended to be funded from the proceeds of the annual fossil auctions.

The Board of Directors introduced several changes to our society's structure to improve functioning of the organization and to enhance income. Several new membership categories were added to allow members more flexibility, and in some cases, to save money on membership dues. The most painful change was an increase in individual annual dues, a necessary step in order to continue the growth in our publication and services programs. Despite the individual dues increase, paid-up memberships as listed on the 1994 roster are up 35% over similar 1992 figures. The untimely loss of Honorary and founding member Ben Waller in 1993 saddened many long-time members. Our Honorary Member list, however, grew with the addition of Lelia and William Brayfield, Dr. David Webb, and Gary Morgan.

The Board also initiated a change in the length of FPS officer terms. Officers now serve two years, a move which allows for better continuity in each office and which cuts in half the time spent in drafting nominees for these positions.

We can be especially proud of our on-going commitment to our publication program. During the past two years, we have continued to upgrade the newsletter format, and although still not up to the desired level, we have received increased article input from our membership. Significant progress was made on Richard Hulbert's long-awaited book on the fossil vertebrates of Florida. The FPS also received publication rights to the Brayfield's classic *A Guide for identifying Florida Fossil Shells and Other Invertebrates*. Florida Museum of Natural History staff updated the nomenclature and the society published a new edition of this popular guide. Sales of the latest edition of Margaret Thomas' *Fossil Vertebrates* have continued to be brisk, and we have nearly depleted our stock of Howard Converse's *Handbook of Paleo-preparation Techniques*. In the works are a new *Papers in Florida Paleontology* and a volume on the vertebrate fossils of the Leisey Shell Pit. Also in progress is an *FPS Member's Manual*, designed to be a guide to the history, traditions, and functioning of our club.

Last, but not least, the Officers and Board are pleased with the successful series of Spring and Fall Meetings conducted during the past term. We have entertained some very interesting speakers on a variety of paleontological subjects, and have had what we feel are several successful field trips and fossil auctions. The success of these meetings has been due primarily to generous donations of time and energy by our meeting committee members. Again, they cannot be thanked enough.

As the Presidential *Hexomeryx* horns are passed to President-Elect Sue Pendergraft this Fall, she will inherit a fiscally sound corporation along with an excellent slate of fellow officers with which to continue our growth. I extend my support and my best wishes to Sue. I sincerely hope she finds her tenure among the good people we count as our members as enjoyable as I did.

Frank Rupert  
President

# News Notes...

by Frank Rupert

## Fall Meeting Update...

After considerable consternation over the conflict between the legendary Georgia-Florida football game and our Fall meeting weekend, we have finalized the meeting plans. The meeting *will* be in Gainesville on Saturday, October 29. The planned events will take place at the University of Florida Reitz Union and at the Florida Museum of Natural History, which are a block apart on campus. By starting early, we hope to avoid the traffic congestion and parking problems which will occur prior to the game (currently thought to start at 3 PM.).

The morning session at the Reitz Union will feature talks about the paleontology of the Thomas Fram site as well as our traditional Fall business meeting. We will be electing new officers and discussing changes to the bylaws during the meeting. The afternoon will be spent touring the FLMNH, where staff will be available to help with your fossil questions.

Dr. Webb has arranged an evening banquet in the Arredondo Room at the Reitz Union, with your choice of a chicken or beef dish. Please use the enclosed reservation form if you plan to attend. Our Fall fossil auction will follow the banquet.

We have cancelled the plan to take people on a tour of the Thomas Farm site. However, Eric Taylor is working on a field trip for anyone planning to stay over until Sunday. Details will be announced at the meeting.

## Upcoming Events

**Sept. 17-18 Central Florida Shell Show,**  
Orlando, FL. Contact Larry Stiles, 1505 N.  
Carolwood Blvd., Fern Park, FL 32730, (407)  
834-2176.

**Oct. 8-9 Florida Fossil Hunters 4th Annual  
Fossil Fair, Orlando, FL.**

**Oct. 22-23 Eleventh Annual Bone Valley Fossil  
Fair,** Lake Mirror Center, 800 E. Main St.,  
Lakeland, FL. For info., (813) 665-3426.

**Oct. 29-30 FPS Fall Meeting,** Gainesville, FL.  
Details forthcoming.

**Nov. 4-6 Imperial Polk County Gem and  
Mineral Show,** Winter Haven, FL. Held at Latt  
Maxcy Citrus Center, Polk County Fairgrounds,  
2640 SR 542, Winter Haven, FL. Contact Mr.  
Win Shutt, 1403 Neptune Drive, Lakeland, FL  
33801, (813) 665-3343.

## Book Bits

Medical doctor, author and FPS member Robin Brown of Ft. Myers has given us another outstanding book in his recently-published *Florida's First People*. Most people know Dr. Brown for his now famous Florida's Fossils, an invaluable guide to collecting and identifying the common fossils found in Florida.

*Florida's First People* describes in uncomplicated detail, and with numerous illustrations, who Florida's earliest people were, how they lived, and what we have discovered about them based on archaeological sites statewide. Interestingly, Dr. Brown personally learned many of the indian tool-making and food preparation techniques described in his book. This book is 262 pages of pure fascination for anyone interested in Florida's past. It is available for \$34.95 from local bookstores or directly from the Pineapple Press. An order form is provided in this newsletter.

The remainder of this Bookbits column is devoted to some odd's and ends, primarily advertisements received by this editor for various books. These are shown in the following pages. Since we haven't personally reviewed these books, we can't comment on them and they are presented for your information only. Anyone interested in writing us some reviews on these or any other recent paleontology texts, send them in!



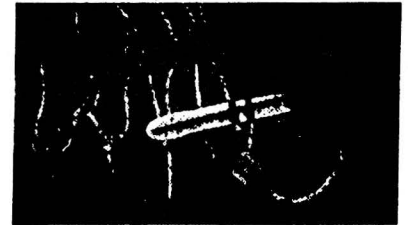
# Florida's First People

12,000 Years of Human History

Robin C. Brown

This clearly written, richly illustrated book describes the day-to-day lives of Florida's earliest inhabitants, using archeological finds at several known sites of early communities and the author's own replications of native skills to bring the culture of these people to life.

From just after the last Ice Age – about 12,000 years ago – to the landing of the first Spanish explorers, Florida's hospitable climate and diverse ecosystems were home to several distinct cultures of early people. From careful archeological methods, we know quite a bit about what they ate, how they hunted, and even many of their attitudes about life and death. The author personally replicated many of the technologies used by primitive people in order to better understand how they survived. He fashioned tools from stone, shell, wood, and bone, then used the implements to carve wood, twist palm fiber into twine and rope, make and decorate pottery, and weave fabric.



The book also features a photographic atlas of Florida projectile points, pottery types, and typical plant and animal remains that are uncovered at Florida archaeological sites.

*"Florida's First People is authoritative, readable, and splendidly illustrated. The 12,000+-year history of Florida's real natives is told sympathetically and factually, relying on modern archeological findings and the author's own experiments with native technology. Florida's First People is a book for all ages, and it will be of interest to anyone who is curious about Florida's past."*  
– William H. Marquardt, Curator in Archeology, Florida Museum of Natural History

Robin C. Brown is a physician in private practice in Fort Myers. A lifelong interest in the early history of the state prompted his first book for Pineapple Press in 1988: *Florida's Fossils*.

----- order form -----

Please send \_\_\_ copies of Florida's First People. Single copy price: \$34.95. (Please add \$2.00 shipping for the first book, and \$ .50 for each book thereafter. Florida residents add 7% sales tax.)

( ) Check here to receive a free catalog.

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# Paleontological Research Institution



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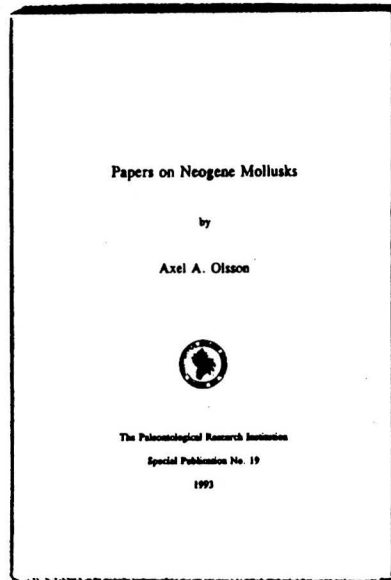
**Classic, out-of-print papers on fossil mollusks from Florida and the Carolinas!**

## *Papers on Neogene Mollusks*

by Axel A. Olsson.

Facsimile reprints of three long out-of-print papers by one of the foremost experts on fossil mollusks of the eastern United States. An invaluable identification guide and reference for collectors, teachers, and students.

PRI Special Pub. 19. ISBN 0-87710-428-X, 163 p.



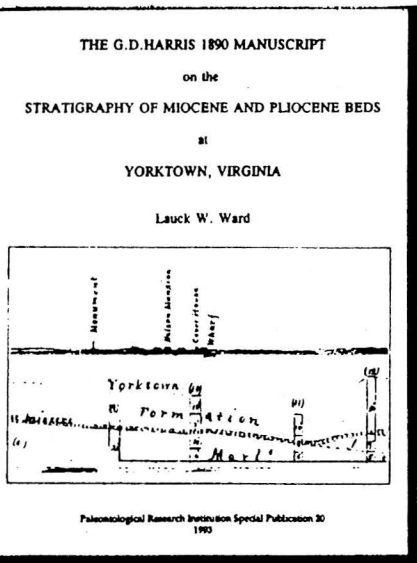
## *G.D. Harris 1890 Manuscript on the Stratigraphy of Miocene and Pliocene Beds at Yorktown, Virginia*

by Lauck W. Ward.

This previously unpublished manuscript by pioneering paleontologist Gilbert Harris is the first known written description of the extensive late Cenozoic stratigraphic section along the York River. This section is now inaccessible. Harris's flowing manuscript is reproduced in facsimile with transcription and annotations by coastal plain expert Lauck Ward of the Virginia Museum of Natural History. This unique volume is of interest not only to geology buffs but also to historians of science.

PRI Special Pub. 20.

ISBN 0-87710-429-8, 118 p.

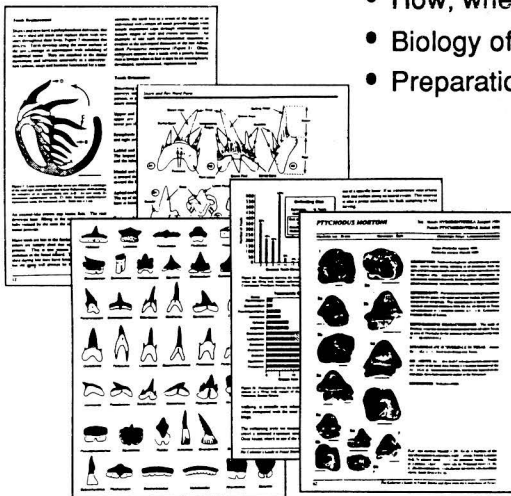


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# Publications in Geology and Paleontology



Virginia Museum of Natural History

◆◆◆  
New Publication

## Molluscan Assemblages of the Chowan River Formation, Part A

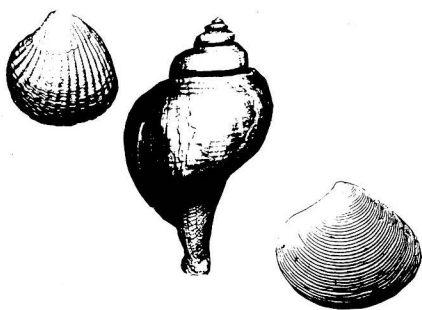
Biostratigraphic Analysis of the Chowan River Formation (Upper Pliocene) and Adjoining Units, the Moore House Member of the Yorktown Formation (Upper Pliocene) and the James City Formation (Lower Pleistocene)

VMNH Memoir 3, Part A

Lauck W. Ward and Norman L. Gilinsky

Mollusks of the upper Pliocene Chowan River Formation of southeastern Virginia and eastern North Carolina are compared with mollusks from adjoining older and younger units by traditional biostratigraphic methods and statistical Q- and R-mode cluster analyses. The study also documents a major extinction of temperate-water mollusks approximately 3 million years ago, due to an extreme cooling event.

\$15.00 40 pages + oversized illustrations (5 tables and 1 cluster analysis) in pocket; 8½" x 11"; 1 fossil plate, 2 b/w photos; paper  
ISBN 0-9625801-7-1 December 1993



Ward & Gilinsky, *Molluscan Assemblages of the Chowan River Formation, Part A*, @ \$15.00 each

Ward, *Molluscan Biostratigraphy of the Miocene*, @ \$25.00 each

Ward, *The G. D. Harris 1890 Manuscript*, @ \$20.00 each

◆◆◆  
Paleontology

## Molluscan Biostratigraphy of the Miocene, Middle Atlantic Coastal Plain of North America

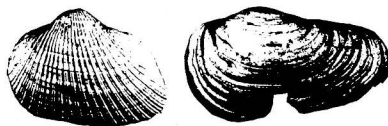
VMNH Memoir 2

Lauck W. Ward

In spite of over one hundred years of attention to the Miocene geology of the Coastal Plain of the middle Atlantic states of North America, until the publication of this volume the area lacked a comprehensive biostratigraphic framework. In this volume, biostratigraphic concepts are reviewed and a zonation based on mollusks is proposed that covers the relatively complete Miocene section in Maryland, Virginia, and North Carolina. A series of eight interval-zones are described, based on first-occurrence data of stratigraphically important mollusks, and the entire time sequence of the Miocene is represented.

The mollusks used in the study are treated systematically, and their nomenclatural histories as well as their geographic and stratigraphic ranges discussed. Thirty-five new species or subspecies and seven new genera are named and described. This well-illustrated monograph on the Miocene strata and fauna will be an essential source for scientists, educators, students, and amateurs. The twenty-six excellent fossil plates and the thirty-two graphically depicted outcrop sections make the volume valuable both in the laboratory and field. This refinement of the molluscan systematics clears up much of the confusion in nomenclature of Maryland and Virginia fossils.

\$25.00 232 pages, 8½" x 11", 26 b/w plates 1992  
1 table in pocket, softcover ISBN 0-9625801-3-9



(\$1.50 for first book plus 75¢ each additional book)  
(Virginia customers only:  
add 4.5% sales tax)

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Paleontological Research Institution  
Special Publication 20

## The G. D. Harris 1890 Manuscript on the Stratigraphy of Miocene and Pliocene Beds at Yorktown, Virginia

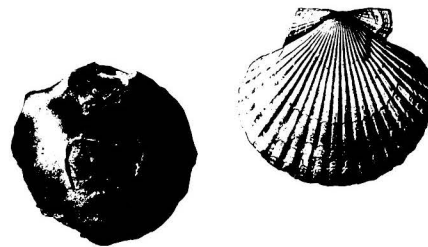
Edited by Lauck W. Ward

This volume, published by the Paleontological Research Institution, makes available for the first time the complete contents of a previously unpublished manuscript by Gilbert D. Harris, written in 1890, on the Neogene stratigraphy at the classic site of Yorktown. Presented are both a facsimile of Harris's original manuscript and a transcription.

The manuscript is important for a number of reasons: it is beautifully written, both as calligraphy and as prose; it astutely describes an important area only briefly mentioned in the literature; and most importantly, it describes an area now lost to science since the entire shoreline was unfortunately armored with "riprap" in the last few decades.

The information provided by Harris will be valuable for both stratigraphers and for paleontologists trying to interpret the numerous collections of Yorktown fossils held in museums all over the world.

\$20.00 118 pages; 7½" x 9½"; 1993; 2 charts, 1 oversized; b/w photos; paper ISBN 0-87710-429-8 1993



Mail order to:

Publications Department  
Virginia Museum of Natural History  
1001 Douglas Avenue  
Martinsville, VA 24112

**Attention FPS Members...**

# **DONATIONS NEEDED!**

**for**

**The 1994**

**Florida Paleontological Society**

# **FOSSIL AUCTION**

**October 29, 1994**

**to be held in conjunction  
with the Fall Meeting in Gainesville**

**Give us your unwanted or extra paleo-items!**

**Books and Posters**

**Fossils**

**Fossil Casts**

**Paleo Hats, T-shirts, patches**

**Rocks, Minerals**

**Tools, washing screens, etc.**

***Bring your donations to the Fall Meeting  
or send them with a friend.***

# BALLOT

Please indicate your choice for the following  
FPS Officer and Board of Director positions:

***President-Elect***

Gordon Hubbell \_\_\_\_\_

***Vice President***

Larry Ellis \_\_\_\_\_

***Secretary***

Eric Taylor \_\_\_\_\_

***Treasurer***

Phil Whisler \_\_\_\_\_

***Board of Directors (3 needed)***

Jim Toomey \_\_\_\_\_

Barbara Fite \_\_\_\_\_

Dr. Douglas Dew \_\_\_\_\_

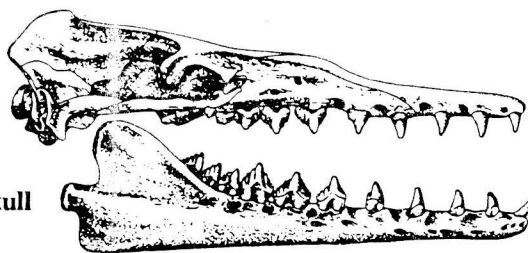
Please sign back of envelope and mail the  
completed ballot by October 15 to:

Eric Taylor, Secretary  
Florida Paleontological Society  
Florida Museum of Natural History  
University of Florida  
Gainesville, FL 32601

or, you may bring the ballot with you to the Fall Meeting. Election  
results will be tallied and announced at the meeting.

# The Eocene Vertebrates of Florida

by Eric Prokopi



*Zygorhiza kochi* skull

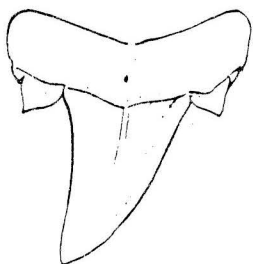
(Reprinted with permission from the Bone Valley Fossil News, May 1994)

The oldest surface exposures in Florida, the Avon Park and Ocala Limestones, contain an interesting and unique mixture of marine vertebrates. The Ocala Limestone is mainly exposed in limerock mines, caves, and river bottoms along the west coast of Florida from Sumter and northern Hernando to Dixie and Lafayette Counties. It is composed of three formations: the Inglis, Williston and Crystal River Formations. The Avon Park Formation is exposed in Levy County.

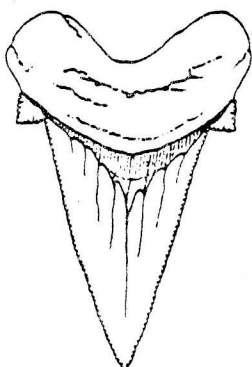
The vertebrate fauna of these Eocene rocks consist of eleven species of sharks and rays, five bony fish, a sea turtle, a snake, a crocodile, two sea cows, and three whales. There are two species of sand sharks: *Carcharias* cf. *hopei* and a smaller *Carcharias* sp. The large predatory sharks are represented by *Isurus praecursor* (the ancestor of all mako sharks and the living great white), *Cretolamna twiggensis* (a holdover from the Cretaceous whose teeth are commonly mistaken for the early Eocene *Otodus obliquus*), the early giant white shark *Carcharocles auriculatus*, and the ancestral tiger shark *Galeocerdo latidens*. The remainder of the sharks are *Hemipristis curvatus* (the ancestral snaggletoothed shark), *Carcharinus gibbesi*, and *Physogaleus* cf. *tertius* (an early representative from another line of tiger sharks.)

The rays include *Aetobatis* sp. (an eagle ray), *Myliobatis* sp. (a cow-nosed ray), and *Pristis* sp. (a saw fish). The list of bony fish from Florida's Eocene is not as long but includes *Holocentrites ovalis* (a squirrel fish), a sea bass, *Hypsocephalus atlanticus* (a snapper), the barracuda *Sphyræna* sp., and *Diodon* sp. (a porcupine fish).

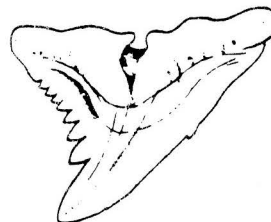
The reptiles and mammals from Florida's Eocene are more unusual and interesting than the fish (for most people). The reptiles are represented by a sea turtle, a medium-sized marine crocodile, probably of the genus *Charactosuchus*, and *Pterosphenus schucherti*, a giant sea boa representing an extinct family. Sea cows are fairly common in the Inglis and Avon Park Formations (as ribs) and are represented by one or two species. Most specimens pertain to *Protosiren* sp., but a few vertebra have been found that look similar to those of *Prorastomus cetoides*, which is the earliest known sea cow. Last but certainly not least are the whales *Zygorhiza kochi*, *Basilosaurus cetoides* and *Pontogeneus* sp. These are primitive whales called archaeocetes and are ancestral to all modern whales and dolphins. *Zygorhiza kochi* was a small dolphin-like whale that reached a length of fifteen or twenty feet. *Basilosaurus cetoides* was a very large snake-like whale that may have reached 60 feet in length. Its



*Cretolamna twiggensis*  
upper lateral tooth



*Carcharocles auriculatus*  
lower anterior tooth

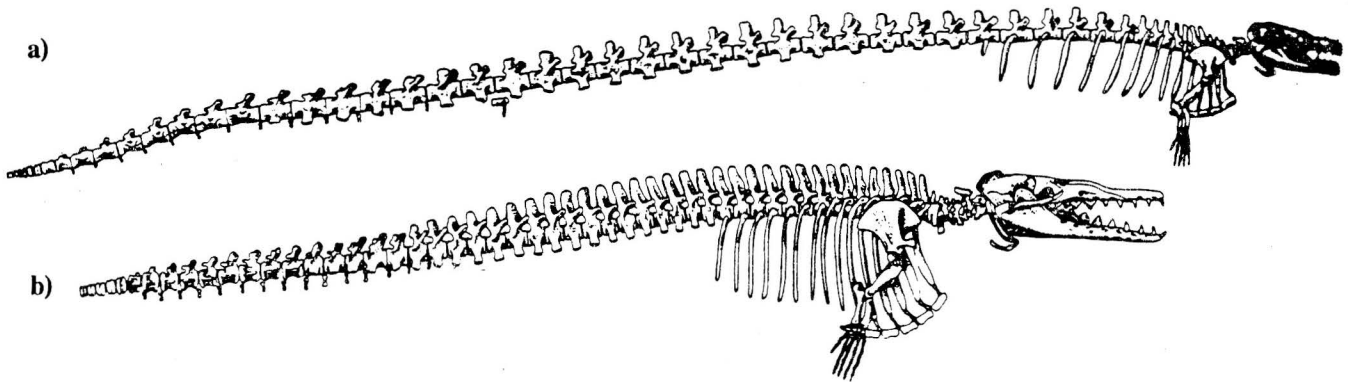


*Hemipristis curvatus*  
upper lateral tooth

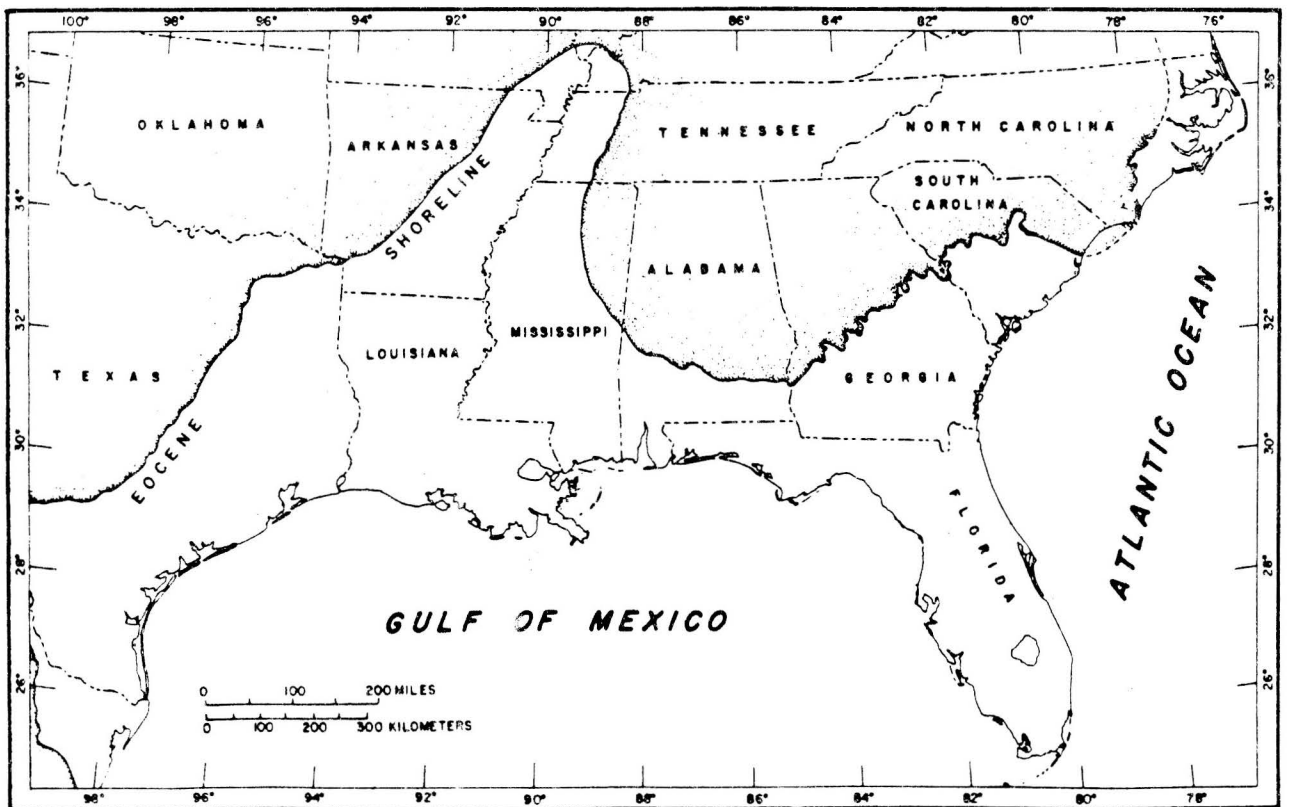
## Eocene vertebrates, continued

head, however, was relatively small for its body size. The third Eocene whale from Florida can be referred to as the headless archaeocete because no skull material has ever been found from this beast. The vertebrae show that it was similar in size to *Basilosaurus* but may have had proportions more like those of *Zygorhiza*. All three whales are very rare in Florida.

The Eocene vertebrates of Florida are fairly rare and most are not very well known but nevertheless they are unusual and interesting, and it is well worth the effort in searching for them.



Upper Eocene archaeocete whales: a) *Basilosaurus* (60 ft.), b) *Zygorhiza* (18 ft.).



Map showing shoreline of S.E. U.S. during the Late Eocene

# FPS FALL MEETING INFORMATION AND AGENDA

## October 29, 1994

The Fall Meeting of the Florida Paleontological Society will be held Saturday, October 29, 1994 in Gainesville Florida. This year's meeting theme is the famous Thomas Farm site, a rich Miocene vertebrate deposit.

The tentative schedule of events is outlined below. Featured are a series of talks on the paleontology of the Thomas Farm site, followed by an afternoon museum tour and fossil identification clinic. An early evening banquet dinner and fossil auction will top off the day's events.

Our original plans included a non-collecting tour of the Thomas Farm site. Unfortunately, the logistics of this visit could not be worked out. We apologize for any inconvenience this change may have caused.

As some individuals have already discovered, the unfortunate decision to move the Georgia-Florida football game to Gainesville this year has further complicated our meeting planning. The game has already caused motel accommodations to be very scarce and high-priced. For those traveling some distance to the meeting, we suggest staying in nearby towns such as Ocala or Palatka, which should be affected less by game traffic. Information on accommodations in these cities is provided in this issue. For most attendees, we recommend returning home the same day.

Traffic congestion on campus will be high, but there will be ample parking during the morning. A map to the museum is provided herein. Although we do not know the game starting time yet (which is at the whim of the TV network) we believe it will be at 3:00 P.M. This should work out fine for meeting attendees, as they will already be parked and all planned events are in walking distance of the museum. The following schedule summarizes the day's events.

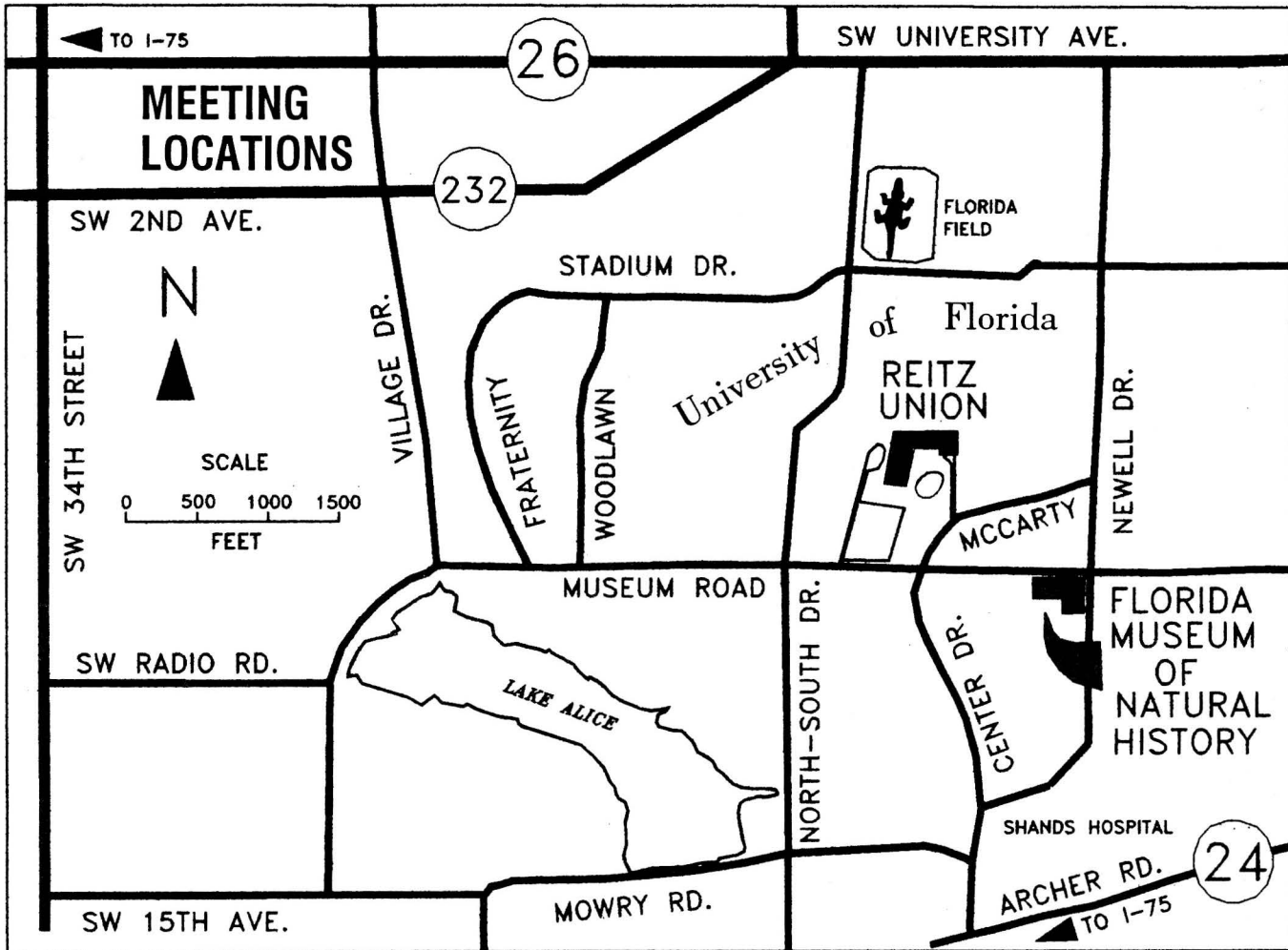
### Saturday, October 29:

8:30 AM      Coffee and Donuts in the Theatre, Reitz Union (one block west of Museum), University of Florida.

- |                 |   |
|-----------------|---|
| 9:00 AM-10:30AM | Talks on the Paleontology of the Thomas Farm Fossil Site.   |
| 10:30AM         | Coffee Break  |
| 11:00AM-12:00   | Business Meeting and election of officers.  |
| 12:00-          | Lunch on your own. Reitz Union is simplest. The Museum Associates will be hosting a special Barbecue in the Museum Courtyard, three hours prior to game time. Cost is \$15.00 on the spot. The Board of Directors will meet over lunch at the Museum. |
| 2:00PM          | Reconvene at the FLMNH, upper level, for tours, demonstrations, and a fossil identification clinic hosted by museum paleontologists. Bring your fossils with you!   |
| 6:00PM          | Banquet dinner at the Arredondo Room, Reitz Union. See attached reservation form for information.   |
| 7:30PM-?        | Annual Fossil Auction. Bring your donations for this fun-filled event.  |

If you plan to attend, please complete the attached meeting registration form and return it with any appropriate payment to the indicated address by no later than October 15, 1994. Please be sure and indicate your food preference.

The following pages provide maps to the museum and Reitz Union, and information on area accommodations. We suggest that you arrive as early as possible and plan on leaving your car in place, if possible, until the conclusion of the meeting. By doing so you will likely miss the congestion caused by football game traffic.



## Accommodations

Due to the influx of football fans, many motels in the Gainesville-Lake City area are fully booked. Those with rooms may charge elevated rates. If you plan to stay overnight in the area, we suggest reserving a room as soon as possible. You might try motels in nearby towns such as Ocala or Palatka, which are approximately 45 minutes away. Some motels in each town are listed below.

### GAINESVILLE (Area Code 904)

**Bambi Motel**, 2119 SW 13th St., 376-2622  
**Cabot Lodge**, 3726 SW 40th Blvd., 375-2400  
**Cape Cod Inn**, 3620 SW 13th St., 371-2500  
**Casa Loma Lodge**, 2000 SW 13th St., 372-3654  
**Comfort Inn**, 2435 SW 13th St., 373-6500  
**Days Inn**, I-75 & US 441 (Alachua), 462-3251  
**Econo Lodge**, 2649 SW 13th St., 373-7816  
**Fairfield Inn**, 6901 NW 4th Blvd., 332-8292  
**Florida Motel**, 2603 SW 13th St., 376-3742  
**Gainesville Lodge**, 413 W. University Ave., 376-1224  
**Gator Court Motel**, 4170 SW 13th St., 376-4667  
**HoJo Inn**, 1900 SW 13th St., 372-1880

**Howard Johnson**, I-75 & SR 26, 332-3200  
**Holiday Inn**, 7417 NW 8th Ave., 332-7500  
**Knights Inn**, 4201 SW 40th Blvd., 373-0392  
**La Quinta**, 920 NW 69th Terr., 332-6466  
**Ranch Motel and Camping Park**,  
 Hwy 301, (Hawthorn), 481-3851  
**Rush Lake Motel**, 1410 SW 16th Ave., 373-5000  
**Sands Motel**, 2307 SW 13th St., 372-2045  
**Scottish Inn**, I-75 exit 33 (Micanopy), 466-3163  
**Travelodge**, 3103 NW 13th St., 372-4319

### OCALA

**Budgetel Inn**, 3701 SW 38th Ave., (904) 237-4848.  
**Budget Host**, I-75 & US 27 W., (904) 732-6940.  
**Days Inn**, 4040 W. Silver Sprgs. Blvd, (904) 629-8850.  
**Hampton Inn**, 3434 SW College Rd., (904) 854-3200.  
**Holiday Inn**, 3621 W. Silver Spgs. B., (904) 629-0381.  
**Howard Johnson**, I-75 & SR 200, (904) 237-8000.  
**Quality Inn**, I-75 & US 27, (904) 732-2300.  
**Travelodge**, 1626 SW Pine Ave., (904) 622-4121.

### PALATKA

**Holiday Inn**, 201 N. 1st St., (904) 328-3481.

# FPS Fall Meeting Registration Form

If you plan to attend, please complete this form  
and return by **October 15, 1994**

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ PHONE \_\_\_\_\_

**For our planning purposes, please complete the following:**

I (We) plan to attend (circle all applicable): *Business Meeting/Talks* *Museum* *Banquet Dinner*

**Banquet Dinner Reservation:** (please fill in appropriate numbers of people and amounts):

\_\_\_\_\_ Adults X \$16.00 = \_\_\_\_\_

\_\_\_\_\_ Children X \$14.00 = \_\_\_\_\_

(under 12 yrs.)

TOTAL \_\_\_\_\_

For all the individuals in your party, indicate below the **number** wanting chicken or beef:

\_\_\_\_\_ Chicken Macadamia \_\_\_\_\_ Flank Steak Roulade

Send this form to the address below no later than **October 15, 1994**. If you are attending the banquet dinner Saturday night, please enclose a check for the total amount, payable to **Florida Paleontological Society**.

Phil Whisler, Treasurer  
Florida Paleontological Society  
Florida Museum of Natural History  
University of Florida  
Gainesville, FL 32611



# The Thomas Farm Fossil Site

*The theme of this year's Fall Meeting is the vertebrate fauna from the famous Thomas Farm site in western Gilchrist County, Florida. For the past 60 years this classic "dig" has yielded a rich and diverse middle Miocene fauna. The following summary is excerpted largely from Puri et al., (1967), and from Plaster Jacket articles by Patton and Webb (1970) and Webb (1981) - Frank Rupert.*

The Thomas Farm locality is situated in northern Gilchrist County, on what was once part of a farm owned by Mr. Raeford Thomas (Figure 1). It lies

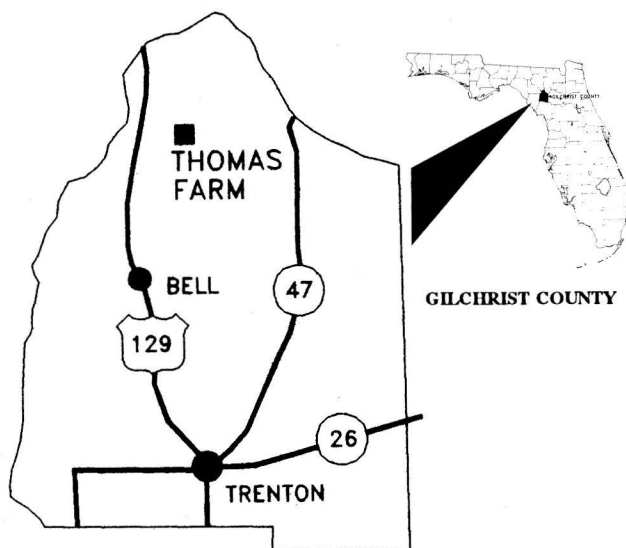


Figure 1. Thomas Farm location map.

within the Gulf Coastal Lowlands geomorphic zone, which is locally characterized by shallow, karstic, Eocene limestone overlain by Miocene through Pleistocene clastic sediments. Figure 2 shows a topographic map of the site prepared by Florida Geologists in 1956. The entire region was inundated by high-standing Pleistocene seas, resulting in erosion of the original land surface and reworking of the older sediments. Many of the shallow sediments fill karst depressions in the underlying limestone. Fossil excavations at the Thomas Farm site have uncovered pinnacles of Eocene age Ocala Limestone protruding upwards through the fossiliferous strata.

The fossil bearing sediments are generally variably-colored, waxy, fossiliferous clayey sands and sandy clays of Miocene and younger age. These strata were originally assigned to the Alachua formation, an informal unit of widely varying age

(Puri et al., 1967). However, the Alachua formation likely represents reworked and redeposited Hawthorn Group sediments (Scott, 1988), thus explaining the presence of Miocene through Pleistocene fossils in this unit.

Vertebrate fossils were first discovered at Thomas Farm in 1931 by Florida Geological Survey paleontologist Clarence Simpson. Early excavations of the site were undertaken by FGS personnel. Between 1939 and 1956, the site was owned and worked by the Harvard Museum of Comparative Zoology. Large collections of vertebrate fossils from Thomas Farm are housed at both Cambridge and the FLMNH in Gainesville.

The fauna described from Thomas Farm is unique in both abundance and diversity. Many species are found only in Florida and the Gulf Coastal Plain. Represented are a wide range of Miocene species, including amphibians, reptiles, fish, birds, and both large and small mammals. The hoofed animals found here are particularly interesting, and digs at the site in recent years have focused on the fossil horses. Faunal comparisons place the age of the Thomas Farm Local Fauna near the middle Hemingfordian (Tedford and Frailey, 1976).

The ancient feature responsible for the accumulation of fossils has been a source of debate. Early theories (Simpson, 1932 and White, 1942) suggested sinkhole fill and a stream deposit respectively. The faunal assemblage present and the well-preserved condition of many delicate fossils lead later authors (Auffenberg, 1963; Patton and Webb, 1970; and Webb, 1981) to agree with Simpson's sinkhole fill theory. A variety of niches are represented by the Thomas Farm fossil fauna, which includes aquatic forms, cave dwelling species, and land mammals. These fossils likely accumulated over time, through several stages in the evolution of the sinkhole, which may have had a cave and possibly an ancient stream associated with it.

Today the Thomas Farm site remains one of the most prolific Miocene sites in the southeast. It is managed by the University of Florida Zoology

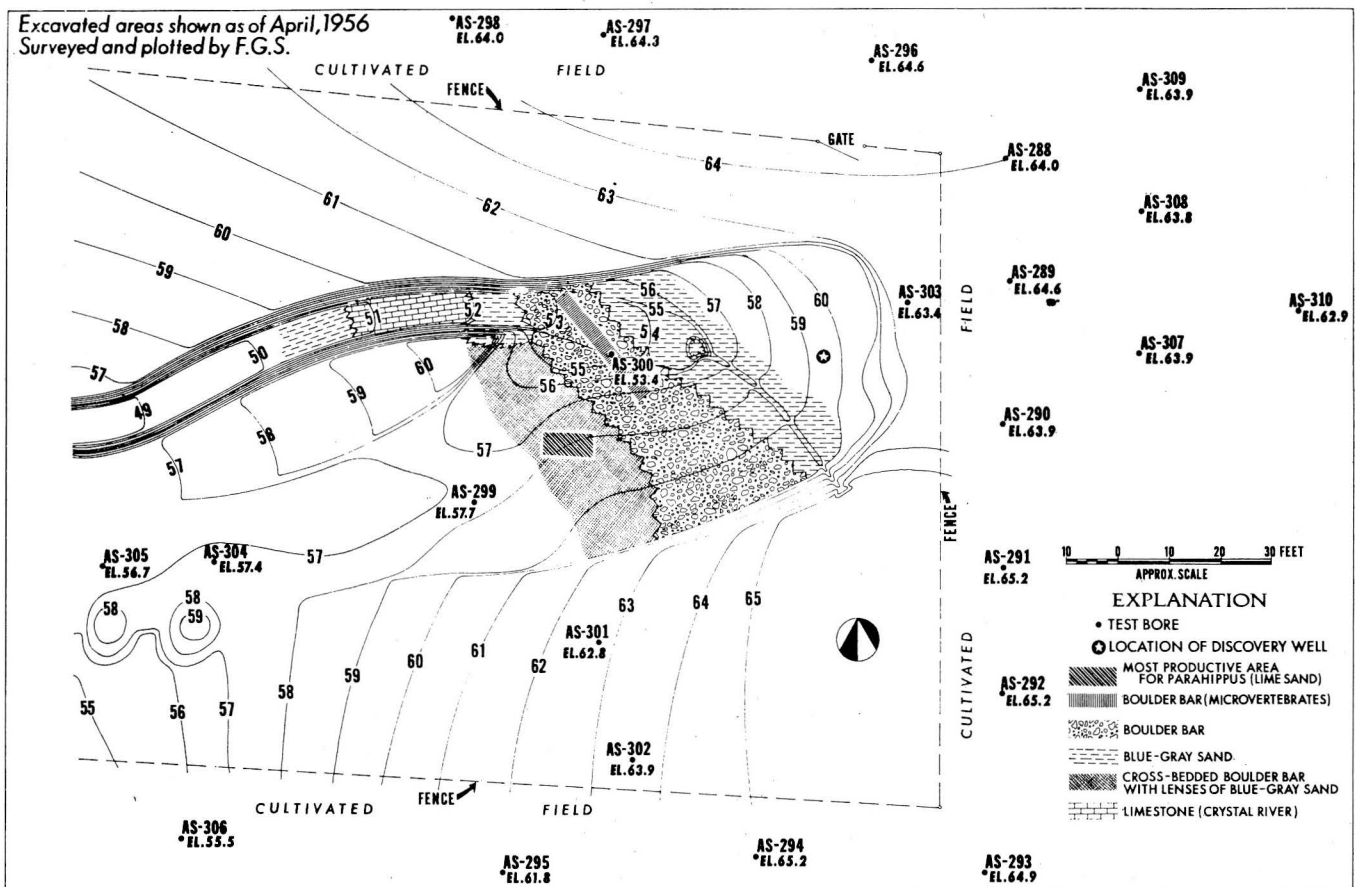


Figure 2: Topographic map of the Thomas Farm Site (from Puri et al., 1967).

Department, and is strictly protected. Access is generally granted only to qualified researchers. Special amateur-assisted digs are occasionally held by paleontologists at the Florida Museum of Natural History.

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*Editor's Note: Eric Prokopi is one of this year's FPS Student Research Award recipients. He prepared the following summary on his research for inclusion in the newsletter.*

## New Research on Florida Fossil Sharks and Rays

by Eric Prokopi

In 1969 Norm Tessman completed his thesis on the fossil sharks of Florida. In the twenty-five years since, nothing of any scientific value has been published on the subject. This is very surprising since Florida has such a rich and diverse shark fauna. Florida is way behind in the understanding of its fossil sharks because no specialist in fossil sharks has ever resided in the state or sustained a long term study here. When I began to study fossil sharks and rays several years ago, I realized just how poorly understood their relationships and identifications were. I am now in the process of writing a comprehensive book on Florida's fossil sharks and rays - something that is long overdue.

This summer I used the FPS research grant for to travel around the state and study specimens in various private and public collections. A good sample of almost every important shark tooth locality in the state was represented in at least one collection I looked at. I also did some field work at sites that were not well enough represented in any collection including: White Springs (late Oligocene), Seminole Springs (late Oligocene), Wintergarden (early Pliocene), and the Waccasassa River (Eocene and Pleistocene). Some of the more interesting things I saw were:

- 1) *Paratodus benedini* from APAC shell pit, Bone Valley, the Jacksonville area, and the Chipola River
- 2) A new species of *Paratodus* from the Oligocene of the panhandle, previously known from a few specimens from South Carolina and Europe.
- 3) Two species of nurse shark from Oligocene deposits.
- 4) A specimen that shows the transition from *Isurus hastalis* to *Carcharodon carcharias*, the living great white (*Isurus hastalis* is properly referred to as a great white).
- 5) Several species of thresher shark from many localities
- 6) A new species of *Plinthicus* (manta-like ray) from the early Oligocene; *Plinthicus* has never been reported from earlier than the latest Oligocene.
- 7) Seminole Springs contains a very rich and diverse late Oligocene shark fauna (one of only two rich Oligocene shark localities in North America).

Following is an up-to-date checklist of sharks and rays known from the fossil record of Florida. The checklist follows the format of Hulbert's (1992) Checklist of the Fossil Vertebrates of Florida. This checklist has about 2.3 times as many species as the previous list, increasing the number of known fossil sharks in Florida to seventy-five. The list follows the classification used by Cappetta (1987) and Compagno (1984).

Class Chondrichthyes

Subclass Elasmobranchii

Cohort Euselachii

Subcohort Neoselachii

Superorder Squalomorphii

Order Hexanchiformes

Suborder Hexanchoidei

Family Hexanchidae (cow sharks, six/sevengill sharks)

*Notorhynchus cepedianus*

IMIO-ePLIO

Superorder Squatinomorphii

Order Squatinaformes

Family Squatinidae (angel sharks)

<i>Squatina</i> sp.	IMIO?
Superorder Galeomorpii	
Order Orectolobiformes	
Family Ginglymostomatidae (nurse sharks)	
<i>Ginglymostoma</i> sp.1	eOLIG, lmMIO
<i>Ginglymostoma</i> n. sp.	eOLIG
<i>Ginglymostoma</i> sp.2	mMIO-IMIO
Order Lamniformes	
Family Odontaspidae (sand tiger sharks)	
<i>Carcharias vincenti</i>	IEOC
<i>Carcharias hopei</i>	IEOC
<i>Carcharias cuspidata</i>	eOLIG-IOLIG, ?eMIO
<i>Carcharias taurus</i>	elMIO-RECENT
<i>Carcharias</i> sp.	lmMIO
Family Lamnidae (mackerel sharks)	
<i>Carcharodon carcharias</i>	PLIO-RECENT
<i>Isurus praecursor</i>	IEOC-eOLIG
<i>Isurus oxyrinchus</i>	lmMIO-RECENT
<i>Isurus paucus</i>	IMIO, RECENT
<i>Isurus hastalis</i>	lmMIO-lePLIO
Family Cretoxyrhinidae (extinct mackerel sharks)	
<i>Cretolamna twiggensis</i>	IEOC
Family Otodontidae (extinct giant mackerel sharks)	
<i>Carcharocles auriculatus</i>	IEOC-eOLIG
<i>Carcharocles</i> sp.	IOLIG-lmMIO
<i>Carcharocles megaladon</i>	elMIO-ePLIO
<i>Parotodus</i> n. sp.	IOLIG
<i>Parotodus benedeni</i>	IMIO-lePLIO
Family Alopiidae (thresher sharks)	
<i>Alopias</i> sp.1	eOLIG-IOLIG
<i>Alopias</i> sp.2	eOLIG-IOLIG
<i>Alopias vulpinus</i>	lmMIO-IMIO, RECENT
Order Carchariniiformes	
Family Scyliorhinidae (catsharks)	
<i>Scyliorhinus</i> sp.	vlMIO
Family Hemigaleidae (weasel sharks)	
<i>Hemipristis elongatus</i>	IEOC-eOLIG
<i>Hemipristis</i> n. sp.	IOLIG
<i>Hemipristis serra</i>	leMIO-vlPLIO
Family Carcharhinidae (requiem sharks)	
<i>Isogomphodon</i> sp.	eOLIG
<i>Carcharhinus gibbesi</i>	IEOC-eOLIG
<i>Carcharhinus</i> sp. 1	eOLIG-IOLIG
<i>Carcharhinus</i> n. sp. 1	IOLIG
<i>Carcharhinus brevipinna</i>	leMIO-RECENT
<i>Carcharhinus priscus</i>	leMIO-lmMIO
<i>Carcharhinus</i> n. sp. 2	leMIO-lmMIO
<i>Carcharhinus</i> sp. 2	leMIO-emMIO
<i>Carcharhinus leucas</i>	lmMIO-RECENT
<i>Carcharhinus obscurus</i>	lmMIO-RECENT

<i>Carcharhinus limbatus</i>	lmMIO-RECENT
<i>Carcharhinus plumbeus</i>	lmMIO-RECENT
<i>Carcharhinus isodon</i>	lmMIO, RECENT
<i>Carcharhinus falciformis</i>	IMIO, RECENT
<i>Carcharhinus acronotus</i>	vIPLIO, RECENT
<i>Galeocerdo latidens</i>	IEOC-eOLIG
<i>Galeocerdo mayumbensis</i>	IOLIG-lmMIO
<i>Galeocerdo cuvier</i>	IMIO-RECENT
<i>Galeocerdo aduncas</i>	IOLIG, leMIO-elMIO
<i>Negaprion amekiensis</i>	IEOC-eOLIG
<i>Negaprion eurybathrodon</i>	IOLIG-emMIO
<i>Negaprion brevirostris</i>	lmMIO-RECENT
<i>Physogaleus</i> sp.	IEOC-eOLIG
<i>Rhizoprionodon</i> sp.	eOLIG-IOLIG, leMIO-RECENT
<i>Sphyrna</i> sp.	eOLIG-IOLIG
<i>Sphyrna zygaena</i>	leMIO-IMIO, RECENT
<i>Sphyrna lewini</i>	IMIO-IPLIO, RECENT
<i>Sphyrna mokarran</i>	IPLIO-RECENT
Genus and sp. indet.	lmMIO
Superorder Batomorphii	
Order Rajiformes	
Suborder Rhynchobatoidei	
Family Rhynchobatidae (guitarfishes)	
<i>Rhynchobatis</i> sp.	IOLIG, emMIO-IMIO
Suborder Rajoidei	
Family Rajidae (skates)	
<i>Raja</i> sp.	MIO, RECENT
Suborder Pristiodei	
Family Pristidae (sawfishes)	
<i>Anoxypristis</i> sp.	IOLIG
Genus and sp. indet.	IOLIG
Genus and sp. indet.	IMIO
<i>Pristis</i> sp. 1	eOLIG-IOLIG
<i>Pristis</i> sp. 2	IOLIG, leMIO-RECENT
Order Myliobatiformes	
Superfamily Dasyatoidea	
Family Dasyatidae (stingrays)	
<i>Dasyatis</i> sp.	IOLIG, leMIO-RECENT
Superfamily Myliobatoidea	
Family Myliobatidae (eagle rays)	
<i>Aetobatis</i> sp.1	IEOC
<i>Aetobatis</i> sp.2	eOLIG-IOLIG
<i>Aetobatis</i> sp.3	emMIO-lmMIO
<i>Aetobatis</i> sp.4	ImMIO-RECENT
<i>Myliobatis</i> sp.1	IEOC-IOLIG
<i>Myliobatis</i> sp. 2	IOLIG, leMIO-lmMIO
<i>Myliobatis</i> sp.3	lmMIO-RECENT
Family Rhinopteridae (cow-nosed rays)	
<i>Rhinoptera</i> sp.	eOLIG-IOLIG, leMIO-RECENT
Superfamily Mobuloidea (manta rays, devil rays)	

Family Mobulidae

*Plinthicus* n. sp.

*Plinthicus stenodon*

eOLIG

IOLIG, mMIO

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CITY \_\_\_\_\_  
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PLEISTOCENE	_____	_____	_____	_____
PLIOCENE	_____	_____	_____	_____
MIOCENE	_____	_____	_____	_____
OLIGOCENE	_____	_____	_____	_____
EOCENE	_____	_____	_____	_____
EARLIER	_____	_____	_____	_____

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8. LIST ANY UNUSUAL SPECIMENS FOUND, CIRCUMSTANCES UNDER WHICH THEY  
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## FLORIDA PALEONTOLOGICAL SOCIETY, INC.

As stated in the Articles of Incorporation, "The purposes of this Corporation shall be to advance the science of Paleontology, especially in Florida, to disseminate knowledge of this subject and to facilitate cooperation of all persons concerned with the history, stratigraphy, evolution, ecology, anatomy, and taxonomy of Florida's past fauna and flora. The Corporation shall also be concerned with the collection and preservation of Florida fossils." (Article III, Section 1).

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