**Chondrichthyan Fossil Record of the Florida Platform [Eocene–Pleistocene]**

Victor J. Perez

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Taxa** | | | | **Sample Size** | **Dentition Type** | **Ecomorphotype** |
| **Superorder Squalomorphii** | | | |  |  |  |
| Hexanchiformes | | | |  |  |  |
|  | Hexanchidae | |  |  |  |  |
|  | | \**Hexanchus griseus* | | 1 | Cutting-Grasping | Littoral: Eurytrophic |
|  | | *Notorynchus cepedianus* | | 20 | Cutting-Grasping | Littoral: Eurytrophic |
|  |  | |  |  |  |  |
| Squatiniformes | | | |  |  |  |
|  | Squatinidae | |  |  |  |  |
|  | | *Squatina* sp. | | 11 | Clutching | Squatinobenthic |
|  |  | |  |  |  |  |
| Squaliformes | | | |  |  |  |
|  | Dalatidae | |  |  |  |  |
|  | | †*Isistius triangulus* | | 584 | Cutting-Clutching | Microceanic |
|  |  | |  |  |  |  |
| **Superorder Galeomorphii** | | | |  |  |  |
| \*Heterodontiformes | | | |  |  |  |
|  | \*Heterodontidae | |  |  |  |  |
|  | | \**Heterodontus* sp. | | 5 | Clutching-Crushing | Probenthic |
|  |  | |  |  |  |  |
| Orectolobiformes | | | |  |  |  |
|  | Ginglymostomatidae | |  |  |  |  |
|  | | *Ginglymostoma cirratum* | | 29 | Clutching | Littoral |
|  | | †*Ginglymostoma delfortriei* | | 112 | Clutching | Littoral |
|  | | *Ginglymostoma* sp. | | 34 | Clutching | Littoral |
|  | \*Rhincodontidae | |  |  |  |  |
|  | | \**Rhincodon* sp. |  | 1 | Filter-feeding | Microtrophic |
|  | Orectolobiformes indet. | |  | 1 | Clutching | Littoral? |
|  |  | |  |  |  |  |
| Lamniformes | | | |  |  |  |
|  | Alopiidae | |  |  |  |  |
|  | | \**Alopias vulpinus* | | 4 | Cutting | Macroceanic |
|  | | *Alopias* sp. | | 2 | Cutting | Macroceanic |
|  | Odontaspididae | |  |  |  |  |
|  | | *Odontaspis* sp. | | 33 | Grasping | Bathic |
|  | | *Carcharias taurus* | | 3278 | Grasping | Littoral |
|  | | †*Carcharias cuspidatus* | | 63 | Grasping | Littoral |
|  | | *Carcharias* sp. | | 53 | Grasping | Littoral |
|  | | \*†*Carcharoides catticus* | | 37 | Grasping-Cutting | Littoral |
|  | | †*Brachycarcharias lerichei* | | 28 | Grasping-Cutting | Littoral: Eurytrophic? |
|  | \*†Jaekelotodontidae | |  |  |  |  |
|  | | \*†*Jaekelotodus trigonalis* | | 2 | Grasping-Cutting | Littoral? |
|  | †Otodontidae | |  |  |  |  |
|  | | †*Otodus megalodon* | | 4316 | Cutting | Archipelagic |
|  | | †*Otodus chubutensis* | | 5 | Cutting | Archipelagic |
|  | | †*Otodus angustidens* | | 9 | Cutting-Grasping | Archipelagic |
|  | | †*Otodus auriculatus* | | 100 | Cutting-Grasping | Archipelagic |
|  | | †*Otodus* sp. | | 5 |  |  |
|  | | \*†*Parotodus benedenii* | | 2 | Cutting | Macroceanic |
|  | Lamnidae | |  |  |  |  |
|  | | *Carcharodon carcharias* | | 749 | Cutting | Archipelagic |
|  | | †*Carcharodon hastalis* | | 2764 | Cutting-Grasping | Archipelagic |
|  | | *Carcharodon* sp. | | 75 | Cutting-Grasping | Archipelagic |
|  | | *Isurus oxyrinchus* | | 328 | Grasping-Cutting | Macroceanic: Tachypelagic |
|  | | †*Isurus desori* | | 40 | Grasping-Cutting | Macroceanic: Tachypelagic |
|  | | *Isurus* sp. | | 89 | Grasping-Cutting | Macroceanic: Tachypelagic |
|  | | †*Macrorhizodus praecursor* | | 37 | Cutting-Grasping | Macroceanic: Tachypelagic |
|  | | Lamnidae indet. | | 92 | - | - |
|  | \*Cetorhinidae | |  |  |  |  |
|  | | \*cf. *Cetorhinus* sp. | | 2 | Filter-feeding | Microtrophic |
|  | Lamniformes indet. | |  | 778 | - | - |
|  |  | |  |  |  |  |
| Carcharhiniformes | | | |  |  |  |
|  | \*Scyliorhinidae | |  |  |  |  |
|  | | \*Scyliorhinidae indet. | | 6 | Cutting-Clutching | Probenthic |
|  | \*Triakidae | |  |  |  |  |
|  | | \**Galeorhinus* sp. | | 47 | Cutting-Clutching | Littoral: Teuthitrophic |
|  | | \*cf. *Mustelus* sp. | | 3 | Crushing | Littoral: Cancritrophic |
|  | Hemigaleidae | |  |  |  |  |
|  | | †*Hemipristis serra* | | 4238 | Cutting-Grasping | Littoral: Eurytrophic |
|  | | \*†*Hemipristis curvatus* | | 13 | Cutting-Grasping | Littoral: Eurytrophic |
|  | | *Hemipristis* sp. | | 81 | Cutting-Grasping | Littoral: Eurytrophic |
|  | Carcharhinidae | |  |  |  |  |
|  | | *Galeocerdo cuvier* | | 1840 | Cutting | Littoral: Eurytrophic |
|  | | †*Galeocerdo mayumbensis* | | 33 | Cutting | Littoral: Eurytrophic |
|  | | †*Galeocerdo aduncus* | | 665 | Cutting | Littoral: Eurytrophic |
|  | | †*Galeocerdo alabamensis* | | 18 | Cutting | Littoral: Eurytrophic |
|  | | †*Galeocerdo latidens* | | 1 | Cutting | Littoral: Eurytrophic |
|  | | *Galeocerdo* sp. | | 333 | Cutting | Littoral: Eurytrophic |
|  | | †*Physogaleus contortus* | | 458 | Cutting-Grasping | Littoral: Eurytrophic |
|  | | *Negaprion brevirostris* | | 13030 | Cutting-Grasping | Littoral |
|  | | *Negaprion* sp. | | 13801 | Cutting-Grasping | Littoral |
|  | | \**Isogomphodon acuarius* | | 1 | Grasping | Littoral |
|  | | *Carcharhinus leucas* | | 2727 | Cutting-Grasping | Littoral: Eurytrophic |
|  | | aff. *Carcharhinus limbatus* | | 247 | Cutting-Grasping | Littoral |
|  | | aff. *Carcharhinus signatus* | | 29 | Cutting-Grasping | Littoral |
|  | | aff. *Carcharhinus acronotus* | | 12 | Cutting-Grasping | Littoral |
|  | | aff. *Carcharhinus plumbeus* | | 21 | Cutting-Grasping | Littoral |
|  | | aff. *Carcharhinus brachyurus* | | 3 | Cutting-Grasping | Littoral |
|  | | aff. *Carcharhinus brevipinna* | | 17 | Cutting-Grasping | Littoral |
|  | | aff. *Carcharhinus sealei* | | 3 | Cutting-Grasping | Littoral |
|  | | aff. *Carcharhinus obscurus* | | 34 | Cutting-Grasping | Littoral: Eurytrophic |
|  | | aff. *Carcharhinus falciformis* | | 3 | Cutting-Grasping | Macroceanic |
|  | | †*Carcharhinus gibbesi* | | 2 | Cutting-Grasping | Littoral? |
|  | | *Carcharhinus* sp. | | 32325 | Cutting-Grasping | Littoral |
|  | | *Rhizoprionodon* sp. | | 4843 | Clutching | Littoral: Teuthitrophic |
|  | | Carcharhinidae indet. | | 763 | - | - |
|  | Sphyrnidae | |  |  |  |  |
|  | | *Sphyrna mokarran* | | 10 | Cutting | Littoral: Sphyrnid |
|  | | \**Sphyrna lewini* | | 2 | Cutting-Grasping | Semilittoral: Sphyrnid |
|  | | *Sphyrna zygaena* | | 10 | Cutting-Grasping | Littoral: Sphyrnid |
|  | | \**Sphyrna tiburo* | | 2 | Cutting-Crushing | Littoral: Sphyrnid-Cancritrophic |
|  | | *Sphyrna* sp. | | 178 | Cutting-Grasping | Littoral: Sphyrnid |
|  | Carcharhiniformes indet. | | | 142 | - | - |
|  |  | |  |  |  |  |
| **Superorder Batomorphii** | | | |  |  |  |
| Rhinopristiformes | | | |  |  |  |
|  | Pristidae | |  |  |  |  |
|  | | \*†*Pristis lathami* | | 2 | Crushing | Pristobenthic |
|  | | *Pristis* sp. | | 1286 | Crushing | Pristobenthic |
|  | | *Anoxypristis* sp. | | 1 | Crushing | Pristobenthic |
|  | | Pristidae indet. | | 15 | Crushing | Pristobenthic |
|  | Rhinidae | |  |  |  |  |
|  | | *Rhynchobatus* sp. | | 579 | Crushing | Rhynchobenthic |
|  | \*Rhinobatidae | |  |  |  |  |
|  | | \**Rhinobatos* sp. | | 62 | Crushing | Rhinobenthic |
|  |  | |  |  |  |  |
| Rajiformes | | | |  |  |  |
|  | Rajidae | |  |  |  |  |
|  | | Rajidae indet. | | 27 | Clutching | Rajobenthic |
|  |  | |  |  |  |  |
| Myliobatiformes | | | |  |  |  |
|  | Dasyatidae | |  |  |  |  |
|  | | *Dasyatis* sp. | | 10864 | Crushing | Rajobenthic |
|  | | Dasyatidae indet. | | 832 | Crushing | Rajobenthic |
|  | Myliobatidae | |  |  |  |  |
|  | | *Myliobatis* sp. | | 454 | Crushing | Aquilopelagic |
|  | | *Aetomylaeus* sp. | | 282 | Crushing | Aquilopelagic |
|  | Rhinopteridae | |  |  |  |  |
|  | | *Rhinoptera* sp. | | 1730 | Crushing | Aquilopelagic |
|  | Aetobatidae | |  |  |  |  |
|  | | *Aetobatus* sp. | | 920 | Crushing | Aquilopelagic |
|  | \*Mobulidae | |  |  |  |  |
|  | | \*cf. *Mobula hypostoma* | | 1 | Filter-feeding | Microtrophic |
|  | | \*cf. *Mobula birostris* | | 1 | Filter-feeding | Microtrophic |
|  | | \**Mobula* sp. | | 10 | Filter-feeding | Microtrophic |
|  | | \*†*Plinthicus stenodon* | | 5 | Filter-feeding | Microtrophic |
|  | Myliobatoidea indet. | |  | 1073 | Crushing | Aquilopelagic |
|  | Myliobatiform indet. | |  | 4395 | Crushing | Aquilopelagic |
|  |  | |  |  |  |  |
|  | Batoidea indet. | |  | 1024 | - | - |
|  | Chondrichthyes indet. | |  | 4256 | - | - |

**Supplemental Table 2.** Chondrichthyan taxa from the Eocene through the Pleistocene of Florida cataloged in the FLMNH vertebrate paleontology Specify database. Dentition types (Kent 1994) and ecomorphotypes (Compagno 1990) are inferred based on modern analogs. \* denote first occurrences for the Florida fossil record. † denote extinct taxa.