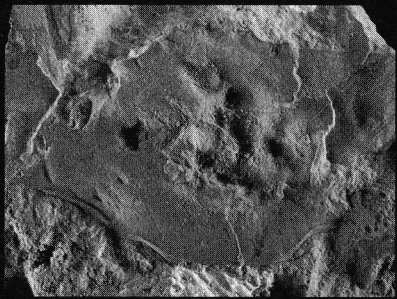


PLATE 4**Family Portunidae (swimming crabs)**

- A) Genus and species unknown. UF 28199; dorsal view of incomplete carapace associated with fossil seagrass in dolomitic matrix; 1x.
- B) *Callinectes sapidus* Rathbun, 1896; UF 3537; dorsal view of **Recent** carapace (collected in the lower Withlacoochee River) given as an example of a complete specimen and for comparison with fossils in figures F and G; 1x.
- C) *Callinectes sapidus* Rathbun, 1896; UF 3537; frontal view of **Recent** carapace for comparison with fossils in figures F and G; 1x.
- D) *Callinectes sapidus* Rathbun, 1896; UF 3537; outer view of **Recent** right cheliped propodus for comparison with fossil in figure F; 2x.
- E) *Callinectes sapidus* Rathbun, 1896; UF 3537; inner view of **Recent** right cheliped propodus for comparison with fossil in figure G; 2x.
- F) *Callinectes* sp.; UF 74941; outer view of incomplete right cheliped propodus; 2x.
- G) *Callinectes* sp.; UF 74941; inner view of incomplete right cheliped propodus; 2x.

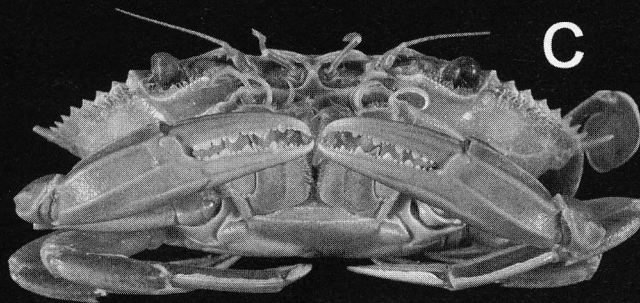
Note: The specimen in figure A is from the Middle Eocene Avon Park Formation (see text for discussion).



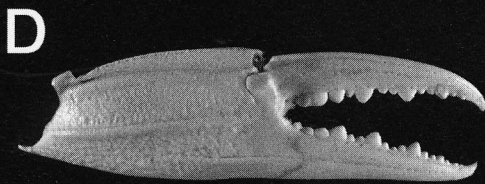
A



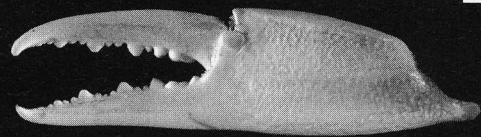
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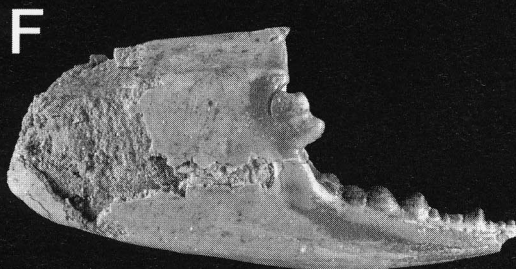
C



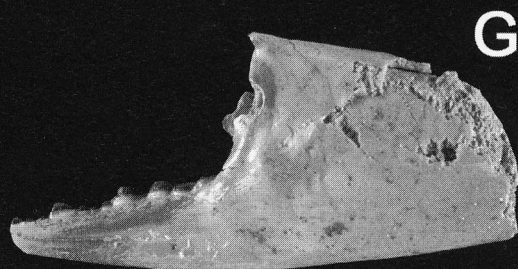
D



E



F



G

PLATE 5

Family Portunidae (swimming crabs)

- A) *Necronectes vaughani* Rathbun, 1935; USNM 371728 (Holotype); image (modified slightly) from Rathbun, 1935, plate 22, figure 9; dorsal view of carapace; 1x.
- B) *Portunus* sp.; USNM 371892; image from Rathbun, 1935, plate 24, figure 30; outer view of distal portion of left fixed finger and dactylus; 1x.
- C) *Portunus sayi* (Gibbes, 1850); FSBC I 3840; dorsal view of **Recent** carapace (collected west of Egmont Key, Hillsborough County, Florida) given as an example of a complete specimen; 1x.
- D) *Portunus sayi* (Gibbes, 1850); FSBC I 3840; outer view of **Recent** right cheliped carpus, propodus, and dactylus for comparison with fossils in figures F and H; 2x.
- E) *Portunus sayi* (Gibbes, 1850); FSBC I 3840; inner view of **Recent** right cheliped carpus, propodus, and dactylus for comparison with fossils in figures G and I; 2x.
- F) *Portunus sayi* (Gibbes, 1850); UF 5267A; outer view of right cheliped carpus and partial propodus and dactylus; 1.5x.
- G) *Portunus sayi* (Gibbes, 1850); UF 5267A; inner view of right cheliped carpus and partial propodus and dactylus; 1.5x.
- H) *Portunus sayi* (Gibbes, 1850); UF 5267B; outer view of right cheliped carpus and partial propodus and dactylus; 1.5x.
- I) *Portunus sayi* (Gibbes, 1850); UF 5267B; inner view of right cheliped carpus and partial propodus and dactylus; 1.5x.
- J) *Scylla floridana* Rathbun, 1935; USNM 371717 (Holotype); image (modified slightly) from Rathbun, 1935, plate 23, figure 8; outer view of right cheliped dactylus and fixed finger; 1x.

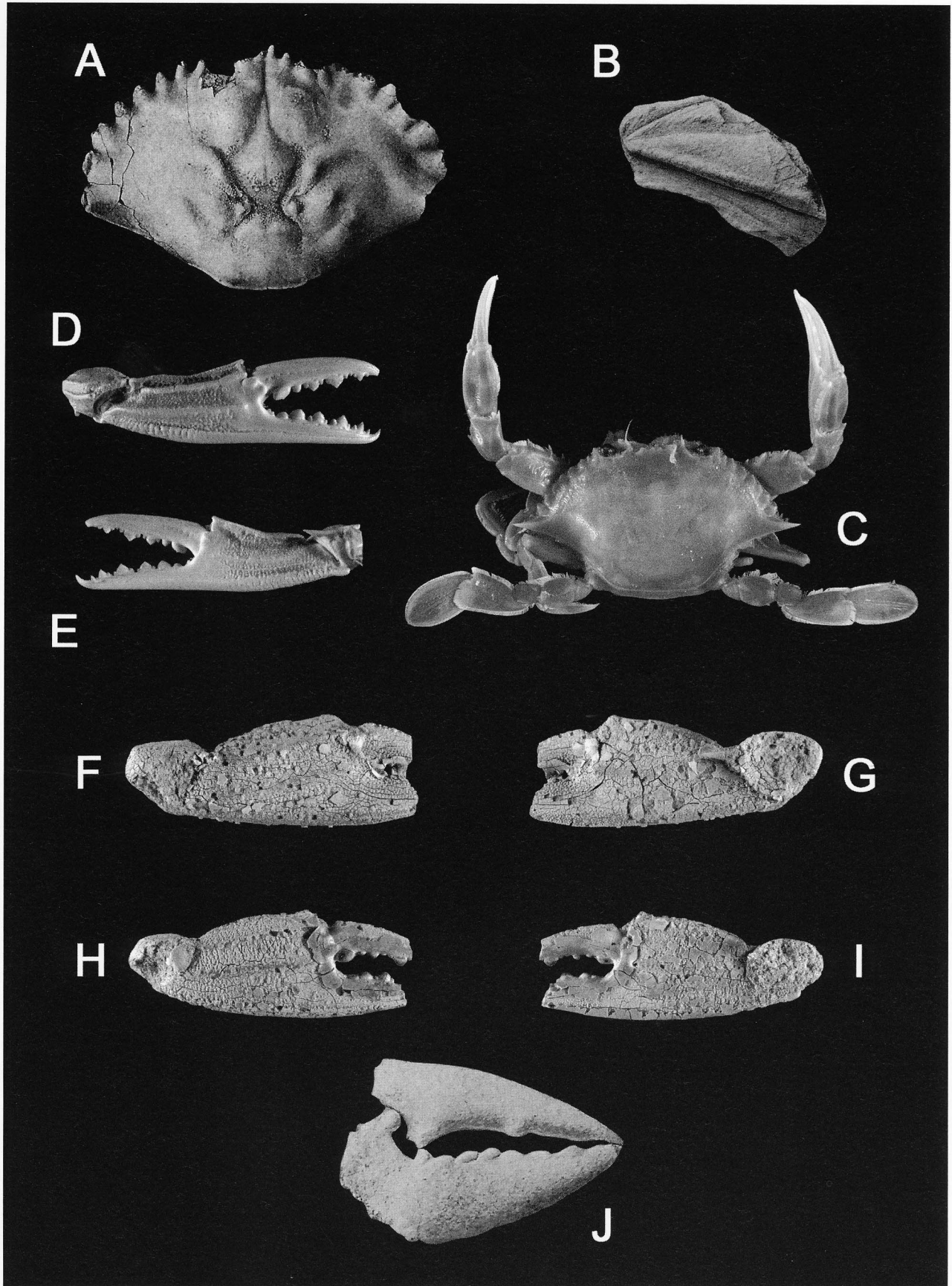


PLATE 6**Family Carpiliidae (mud crabs)**

- A) *Ocalina floridana* Rathbun, 1929; UF 32725; ventral view of carapace; 1x.
- B) *Ocalina floridana* Rathbun, 1929; UF 32725; frontal view of chelipeds (dorsal carapace absent); 1x.
- C) *Ocalina floridana* Rathbun, 1929; UF 105902; dorsal view of carapace; 1x.
- D) *Ocalina floridana* Rathbun, 1929; UF 105902; frontal view of carapace; 1x.

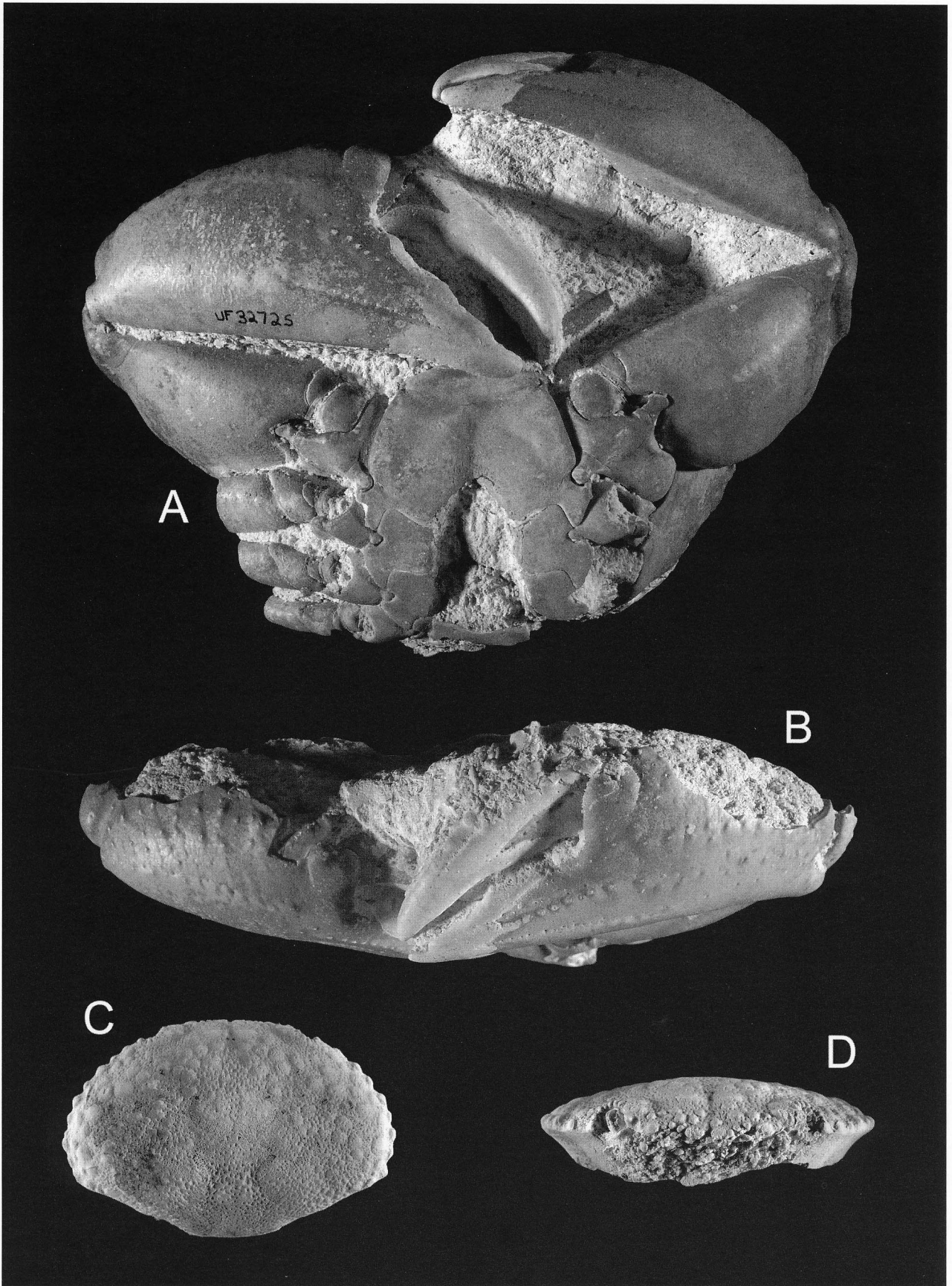


PLATE 7**Family Carpiliidae (mud crabs)**

- A) *Palaeocarpilius brodkorbi* Lewis and Ross, 1965; UF 112462; dorsal view of carapace internal mold (posterior partially displaced anteriorly); 1x.
- B) *Palaeocarpilius brodkorbi* Lewis and Ross, 1965; UF 112462; frontal view of carapace internal mold (partially compacted); 1x.
- C) *Palaeocarpilius brodkorbi* Lewis and Ross, 1965; UF 114368; frontal view of carapace; 1x.
- D) *Palaeocarpilius brodkorbi* Lewis and Ross, 1965; UF 114368; dorsal view of carapace; 1x.
- E) *Palaeocarpilius brodkorbi* Lewis and Ross, 1965; UF 114368; ventral view of carapace infilled with Ocala Limestone; 1x.

Note: Belinda Kuszynski (Marianna) kindly donated UF 112462 for inclusion in this publication.

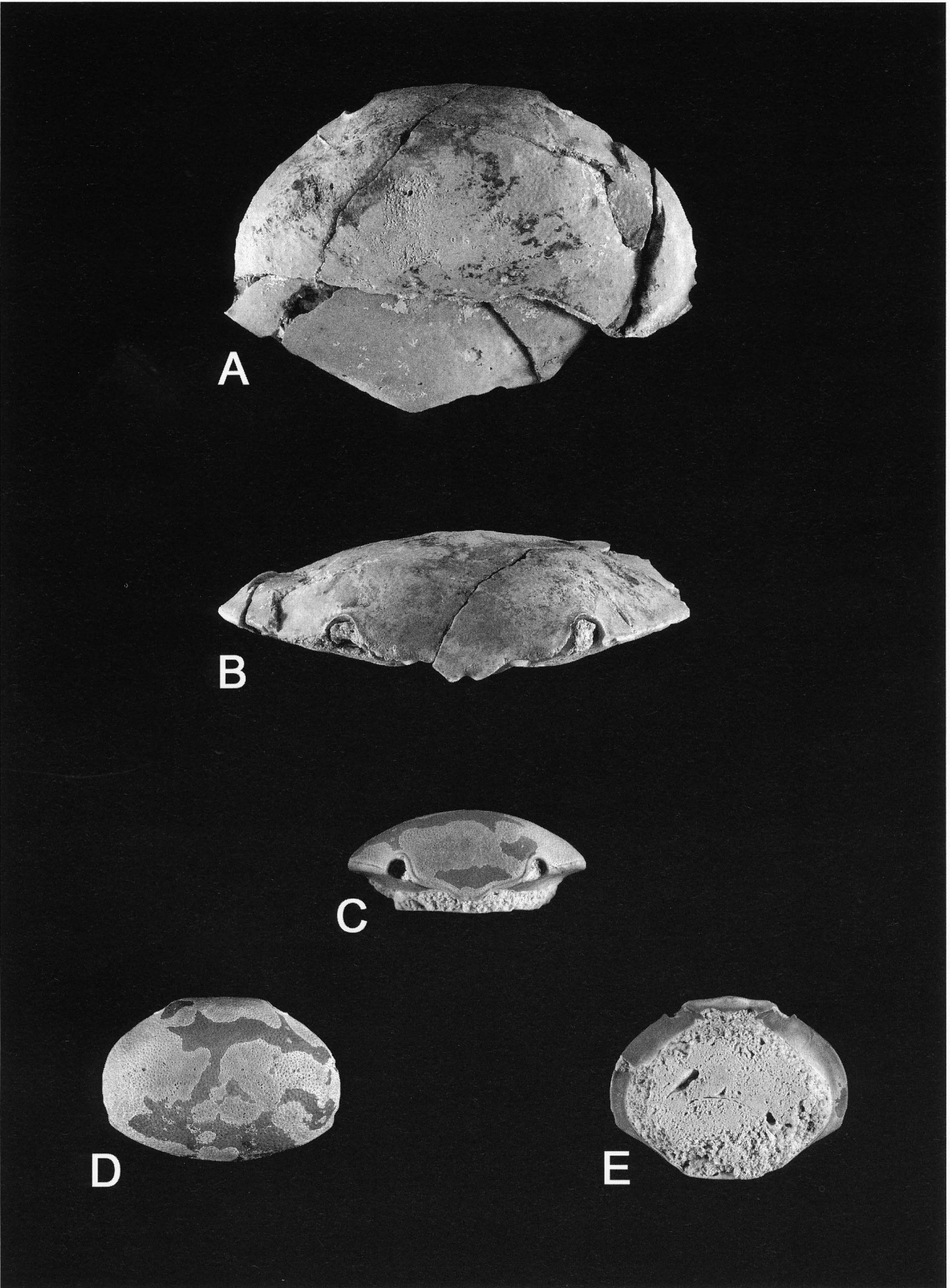


PLATE 8**Family Menippidae (stone crabs)**

- A) *Menippe nodifrons* Stimpson, 1859; FSBC I 989; dorsal view of **Recent** carapace (collected in Departamento de Gracias a Dios, Honduras) given as an example of a complete specimen and for comparison with fossils in figures C-F; 1x.
- B) *Menippe nodifrons* Stimpson, 1859; FSBC I 989; frontal view of **Recent** carapace given as an example of complete specimen and for comparison with fossils in figures C-F; 1x.
- C) *Menippe nodifrons* Stimpson, 1859; UF 45586; inner view of partial left cheliped propodus; 2x.
- D) *Menippe nodifrons* Stimpson, 1859; UF 45586; outer view of partial left cheliped propodus; 2x.
- E) *Menippe nodifrons* Stimpson, 1859; UF 44843; outer view of distal portion of right fixed finger; 2x.
- F) *Menippe nodifrons* Stimpson, 1859; UF 44843; inner view of distal portion of right fixed finger; 2x.

Family Xanthidae (mud crabs)

- G) *Eurytium limosum* (Say, 1818); University of Florida Marine Laboratory 340; dorsal view of **Recent** carapace (collected at Crescent Beach Salt Marsh, St. Johns County, Florida) given as an example of a complete specimen and for comparison with fossil in figure J; 1x.
- H) *Eurytium limosum* (Say, 1818); University of Florida Marine Laboratory 340; frontal view of **Recent** carapace for comparison with fossil in figure I; 1x.
- I) *Eurytium limosum* (Say, 1818); UF 71379; outer view of right cheliped dactylus; 4x.
- J) *Eurytium limosum* (Say, 1818); UF 71379; inner view of right cheliped dactylus; 4x.

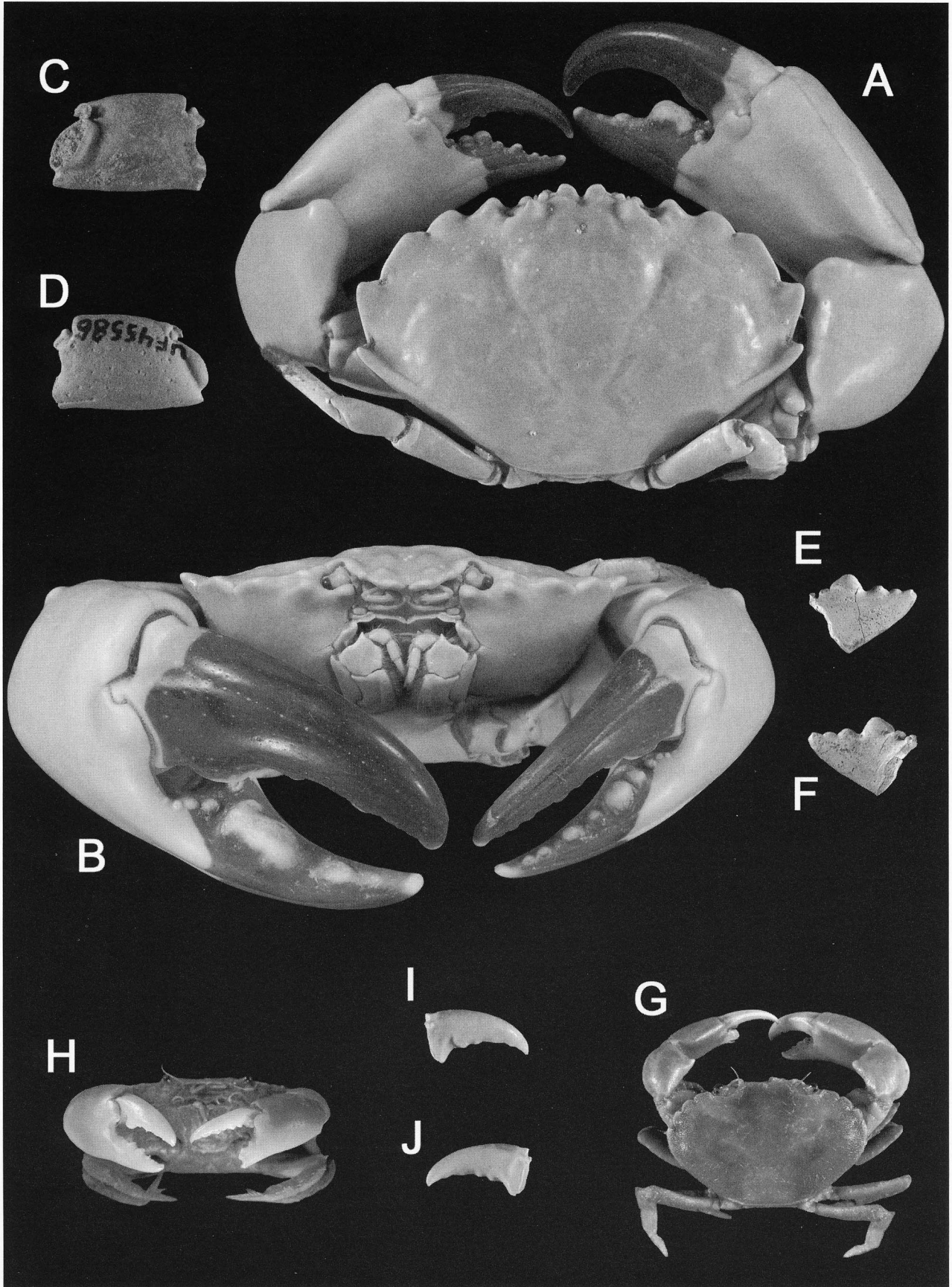


Table 1. Species list of described or reported (but as yet undescribed) Florida Eocene, Oligocene, and Miocene decapod crustaceans with families arranged in systematic order following Martin and Davis (2001), and with genera and species listed alphabetically. For some, a brief synonymy (an older name no longer in use) is provided. Reported stratigraphic occurrence (updated to currently recognized formational names) for each species is listed. An asterisk (*) indicates the Florida record as problematic. However, for completeness, these reports were included.

Callianassidae

Callianassa sp. cf. *C. floridana* Rathbun, 1935.

Stratigraphic Occurrence: Coosawhatchie and Marks Head formations.

Callianassa floridana Rathbun, 1935.

Stratigraphic Occurrence: Chipola Formation.

Callianassa inglisestris Roberts in Richards and Palmer, 1953.

Stratigraphic Occurrence: Lower Member of Ocala Limestone.

Callianassa matsoni Rathbun, 1935.

Stratigraphic Occurrence: Torreya?, Penney Farms, and Parachucla formations.

Diogenidae

Paguristes chipolensis Rathbun, 1935.

Stratigraphic Occurrence: Chipola Formation.

Petrochirus inequalis Rathbun, 1919.

Stratigraphic Occurrence: Chipola Formation.

Raninidae

**Lophoranina georgiana* (Rathbun, 1935).

Stratigraphic Occurrence: Ocala Limestone.

Synonymy: *Ranina georgiana* Rathbun, 1935. As noted by Portell & Collins (2002) the Florida Eocene reports of this species warrant further research.

Calappidae

Calappa flammea (Herbst, 1794).

Stratigraphic Occurrence: Shoal River and Chipola formations.

Calappa ocalana (Ross, Lewis, and Scolaro, 1964).

Stratigraphic Occurrence: Ocala Limestone.

Synonymy: *Aparnocondylus ocalanus* Ross, Lewis, and Scolaro, 1964.

Calappa robertsi Ross, Lewis, and Scolaro, 1964.

Stratigraphic Occurrence: Ocala Limestone.

Calappilia brooksi Ross and Scolaro, 1964.

Stratigraphic Occurrence: Ocala Limestone.

Majidae

Stenocionops suwanneeana Rathbun, 1935.

Stratigraphic Occurrence: Ocala Limestone.

Cheiragonidae

Montezumella microporosa Portell and Collins, 2002.

Stratigraphic Occurrence: Ocala Limestone.

Portunidae

Callinectes sapidus Rathbun, 1896.

Stratigraphic Occurrence: Chipola Formation.

Necronectes vaughani Rathbun, 1935.

Stratigraphic Occurrence: Marianna Limestone.

**Portunus* sp.

Stratigraphic Occurrence: Avon Park Formation.

Synonymy: The reported genus for this fossil is doubtful.

Portunus sp.

Stratigraphic Occurrence: Chattahoochee Formation.

Portunus sayi (Gibbes, 1850).

Stratigraphic Occurrence: Chipola Formation.

Scylla floridana Rathbun, 1935.

Stratigraphic Occurrence: Chattahoochee Formation.

Carpiliidae

Ocalina floridana Rathbun, 1929.

Stratigraphic Occurrence: Ocala Limestone.

Palaeocarpilius brodkorbi Lewis and Ross, 1965.

Stratigraphic Occurrence: Ocala Limestone.

Menippidae

Menippe nodifrons Stimpson, 1859.

Stratigraphic Occurrence: Chipola Formation.

Xanthidae

Eurytium limosum (Say, 1818).

Stratigraphic Occurrence: Chipola Formation.

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NOTES