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## RECORDS AND RANGE EXTENSIONS OF MYSIDACEA FROM COASTAL AND SHELF WATERS OF THE EASTERN GULF OF MEXICO

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**ABSTRACT** Records of seventeen species of Mysidacea from the Gulf of Mexico are presented. *Bowmaniella portoricensis*, *Pseudomma* sp., *Siriella thompsonii* and *Bathymysis renoculata* are recorded from the Gulf for the first time. Range extensions within the Gulf are established for *Anchialina typica* and *Mysidopsis furca*. Records of *Brasilomysis castroi* and *Mysidopsis almyra* from the Atlantic coast of the United States are reported.

### INTRODUCTION

The offshore benthic and planktonic mysidacean fauna of the Gulf of Mexico are poorly known; however, the shallow-water species have been investigated by several authors. Brattegard (1969, 1970) reported eight species from coastal waters off southern Florida and presented their taxonomic characters. Farrell (1979) provided a key to 24 nearshore species from Florida but did not include data on collection sites. The Mysidacea of the western Gulf of Mexico have been studied by Price, who identified seven species from Galveston Bay, Texas (1976), and four species from Mexico (1975, 1978). The taxonomic works of Banner (1953), Clarke (1956), Băcescu (1961, 1969), Bowman (1964) and Molenock (1969) have also added to the knowledge of the group in the Gulf of Mexico. Ecological studies and baseline inventories in northern Gulf estuaries have contributed data on a limited number of species (cited in text).

Records of some Mysidacea from the Gulf of Mexico appear to be in error, due in part to confusion in the literature (Stuck et al. 1979). In addition to establishing new records and range extensions for Gulf mysids, data are presented here to clarify the known distribution of several shallow-water species.

### MATERIALS AND METHODS

This report is based on a collection of mysid shrimps of the family Mysidae from the continental shelf waters off Mississippi, Alabama, and Florida, and supplemented with material from shallow, estuarine waters in the northeastern Gulf of Mexico. Specimens were provided to the authors from the following sources:

1. National Marine Fisheries Service under Public Law 88–309, Project 2–42–R.
2. National Marine Fisheries Service under Public Law 88–309, Project 2–215–R.
3. Dames and Moore under Contract N. AA550–CT7–

34 from the Bureau of Land Management.

4. Steve Heath, Alabama Marine Resources Laboratory; specimens from Dauphin Island and Gulf Shores, Alabama.
5. Shiao Wang, Gulf Coast Research Laboratory; specimens from continental shelf waters off Main Pass, Mississippi River.
6. Steve Manning, Gulf Coast Research Laboratory; specimens from Gulf Breeze, Florida.
7. Thomas E. Bowman, United States National Museum; specimens from Mullet Key, Florida, and Calcasieu Pass, Louisiana.
8. The personal collections of Kenneth C. Stuck (KCS) and Richard W. Heard (RWH).

Records of occurrence follow the style of Brattegard (1969, 1970). Plankton stations are designated as either day (D) or night (N) and are followed by the depth of tow (S—surface, M—midwater, B—bottom). Selected synonymies of interest to regional investigators are provided for each species when applicable. The study area, divided into four subareas based on geographic location, and collecting sites are shown in Figures 1 through 5.

Specimens were taken with a variety of gear types and these are included with station location and bottom type in the collecting sites listing. Sediment analysis was not available for many locations.

A representative collection of the mysids reported herein has been deposited in the museum at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi.

### COLLECTING SITES

1. Timbalier Bay, Louisiana; mud; Renfro beam trawl.
2. Terrebonne Parish, Louisiana; Gulf surf, sand; Renfro beam trawl.
3. Forty-two miles east of Main Pass, Mississippi River, 88°30' N, 29°25' W; plankton net.
4. Mouth of Bayou St. John, Orleans Parish, Louisiana; sand; Renfro beam trawl.
5. South shore of Lake Pontchartrain, Louisiana; sand, grass bed; Renfro beam trawl.

6. North shore of Lake Pontchartrain, Louisiana; sand, grass bed; Renfro beam trawl.
7. Cedar Point, St. Louis Bay, Mississippi; silty sand; Renfro beam trawl.
8. Henderson Point, Pass Christian, Mississippi; sand; Renfro beam trawl.
9. Gulfport Beach, Gulfport, Mississippi; sand; Renfro beam trawl.
10. East end of Deer Island, Mississippi; mud; Renfro beam trawl.
11. Fort Point, Biloxi Bay, Mississippi; sand, grass bed; Renfro beam trawl.
12. Davis Bayou, Mississippi; mud; Renfro beam trawl.
13. Belle Fontaine Beach, Mississippi; silty sand; Renfro beam trawl.
14. Cat Island Pass, Mississippi; Clarke-Bumpus plankton sampler.
15. Ship Island Pass, Mississippi; Clarke-Bumpus plankton sampler.
16. Ship Island; Gulf surf; sand; Renfro beam trawl.
17. Continental shelf, north central Gulf of Mexico, 30°02'30" N, 88°40'15" W; plankton net.
18. Continental shelf, north central Gulf of Mexico, 29°42'00" N, 88°27'30" W; plankton net.
19. Continental shelf, north central Gulf of Mexico, 29°24'15" N, 88°17'00" W; plankton net.
20. Continental shelf, north central Gulf of Mexico, 20°19'00" N, 88°14'00" W; plankton net.
21. Continental shelf, north central Gulf of Mexico, 29°17'15" N, 88°12'05" W; plankton net.
22. Dog Keys Pass, Mississippi; Clarke-Bumpus plankton sampler.
23. Chimney Lagoon, Horn Island, Mississippi; silty sand; Renfro beam trawl.
24. Middle Ground, Mississippi Sound; sand, grass bed; Renfro beam trawl.
25. Horn Island Pass, Mississippi; Clarke-Bumpus plankton sampler.
26. Dauphin Island, Alabama; gear type unknown.
27. Gulf Shores, Alabama; gear type unknown.
28. Gulf Breeze, Florida; sand; Renfro beam trawl.
29. Brackish water pond, Destin, Florida; sand; fine-mesh dip net.
30. Continental shelf, north central Gulf of Mexico, 29°43'29" N, 87°54'30" W; box core.
31. Continental shelf, NE Gulf of Mexico, 29°47'59" N, 86°09'29" W; box core.
32. Continental shelf, NE Gulf of Mexico, 28°23'59" N, 85°15'03" W; box core.
33. Continental shelf, NE Gulf of Mexico, 27°57'00" N, 84°47'59" W; box core.
34. Continental shelf, NE Gulf of Mexico, 29°47'00" N, 84°05'00" W; box core.
35. Continental shelf, NE Gulf of Mexico, 29°05'01" N, 83°45'01" W; box core.
36. Continental shelf, NE Gulf of Mexico, 28°30'00" N, 83°29'58" W; box core.
37. Continental shelf, NE Gulf of Mexico, 27°57'00" N, 83°09'00" W; box core.
38. Continental shelf, NE Gulf of Mexico, 27°56'01" N, 83°27'30" W; box core.
39. Continental shelf, NE Gulf of Mexico, 27°52'31" N, 83°33'59" W; box core.
40. Continental shelf, NE Gulf of Mexico, 27°57'29" N, 83°42'29" W; box core.
41. Continental shelf, NE Gulf of Mexico, 27°56'30" N, 83°53'00" W; box core.
42. Continental shelf, NE Gulf of Mexico, 27°37.2' N, 83°53.5' W; box core.
43. Continental shelf, NE Gulf of Mexico, 27°24.2' N, 84°07.3' W; box core.
44. Continental shelf, SE Gulf of Mexico, 27°03'26" N, 83°01'09" W; box core.
45. Continental shelf, SE Gulf of Mexico, 26°25'00" N, 82°15'09" W; box core.
46. Continental shelf, SE Gulf of Mexico, 26°25'00" N, 82°58'00" W; box core.
47. Continental shelf, SE Gulf of Mexico, 26°25'00" N, 83°23'01" W; box core.
48. Continental shelf, SE Gulf of Mexico, 25°40.0' N, 82°20.0' W; box core.

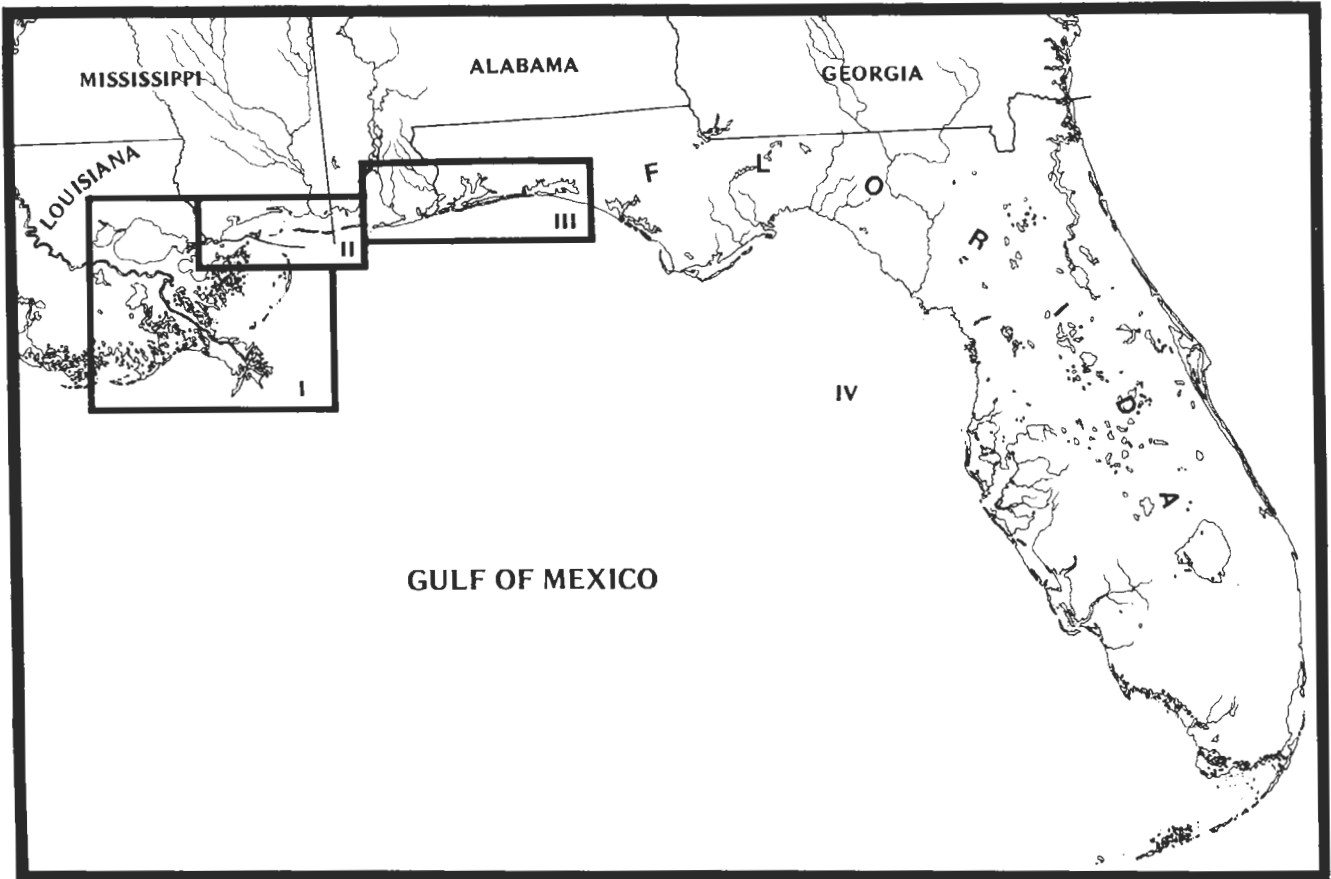


Figure 1. Study area showing locations of subareas I through IV.

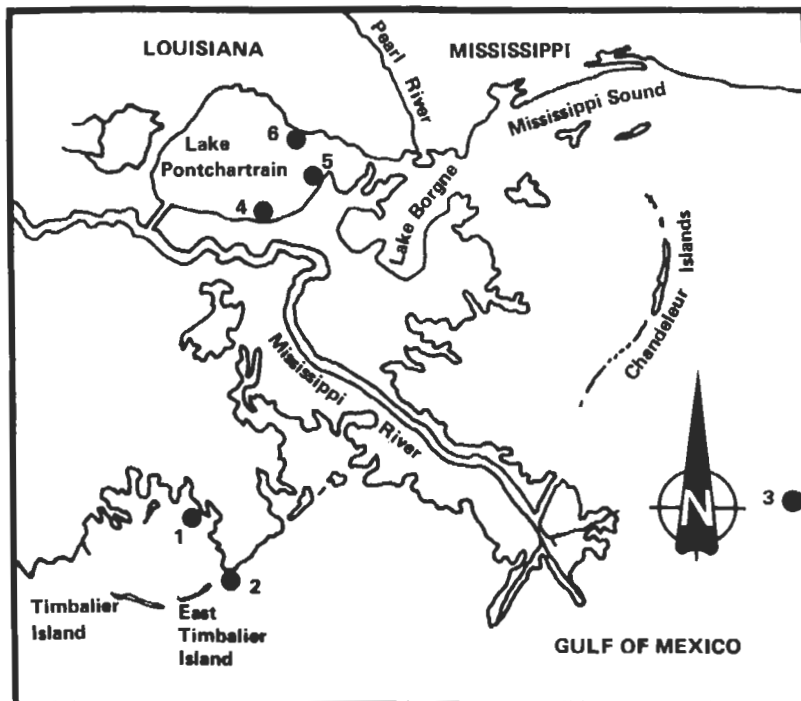


Figure 2. Location of stations in subarea I.

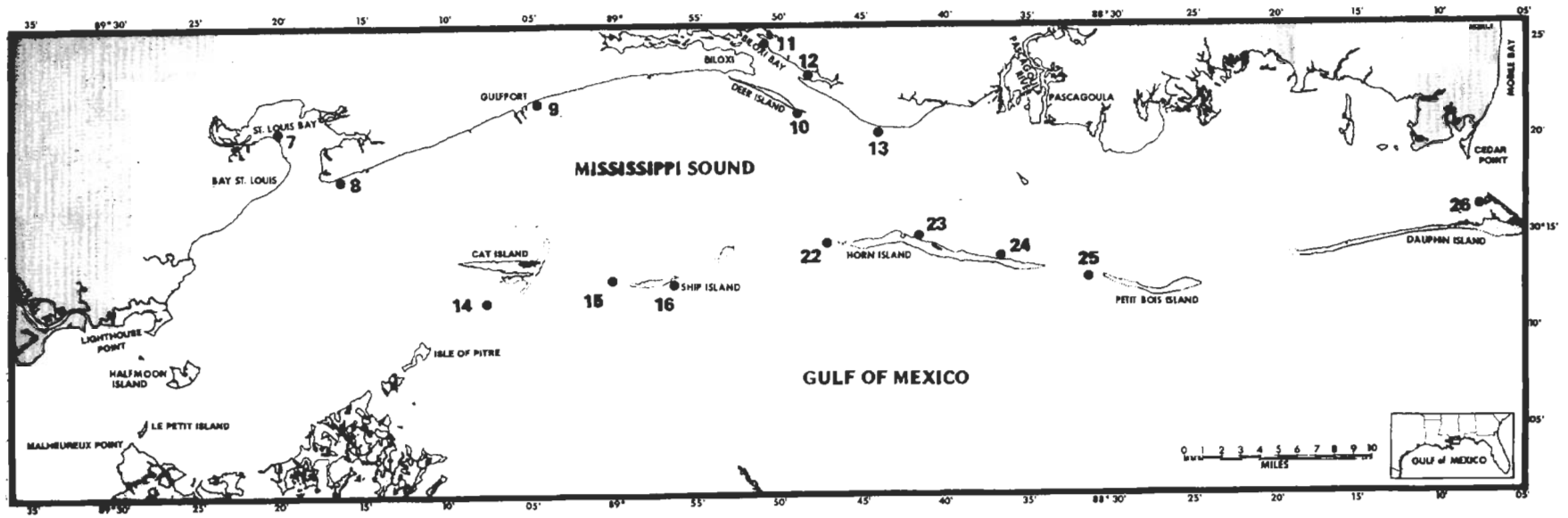


Figure 3. Location of stations in subarea II.

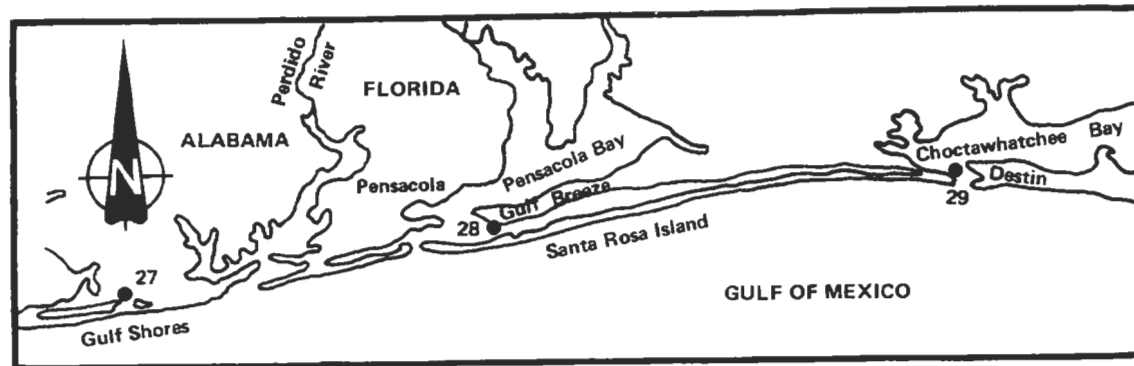


Figure 4. Location of stations in subarea III.

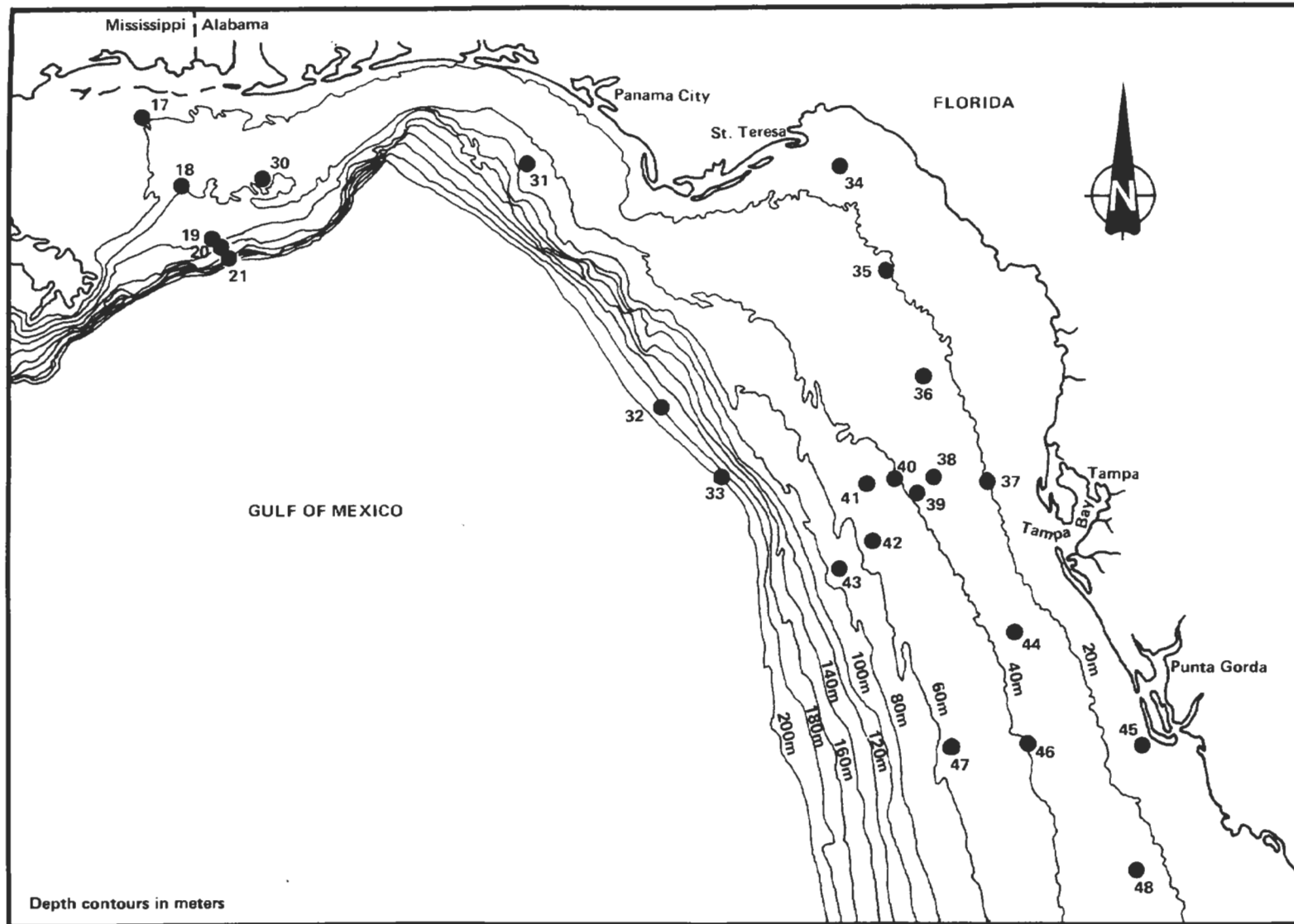


Figure 5. Location of stations in subarea IV.

## SPECIES ACCOUNT

*Anchialina typica* (Krøyer)

*Anchialus typicus* Krøyer, 1861, p. 53, pl. 2, fig. 7a–l

*Anchialina typica*: Hansen, 1910, p. 52, pl. 7, fig. 2a–k

*Anchialina typica*: Ii, 1964, p. 188, figs. 48–49

*Anchialina typica*: Brattegard, 1970, p. 24, fig. 6

*Anchialina typica*: Stuck, Perry and Heard, 1979, p. 227, figs. 2a, 3a, 4a, 5a

**Occurrence** – Station 19NM(males–4, females–1, ovigerous females–0, juveniles–0), 20NM(1–3–1–0), 21NM(0–0–1–0), 31(1–0–0–0), 34(0–1–0–0), 35(1–0–0–0), 37(1–0–0–0), 42(0–1–0–0), 45(0–1–0–0), 48(0–0–0–1).

**Gulf of Mexico Records** – Hopkins (1966).

**Distribution** – Widely distributed in the tropical and subtropical regions of the Atlantic and Pacific oceans (Ii 1964). Reported from waters off Nova Scotia (Nouvel 1943), the continental shelf off South Carolina (Wigley and Burns 1971), Biscayne Bay, Florida (Brattegard 1970), St. Andrew Bay, Florida (Hopkins 1966), and the continental shelf waters off Mississippi (present study).

*Bowmaniella portoricensis* Băcescu

*Bowmaniella portoricensis* Băcescu, 1968, p. 357, figs. 1a–n, 2a–e, 3a–b

*Bowmaniella portoricensis*: Stuck, Perry and Heard, 1979, p. 227, figs. 2b, 3b, 4b, 5b

**Occurrence** – Station 19DB(males–1, females–21, ovigerous females–0, juveniles–0), 20NM(0–0–0–2), 30(0–1–0–0), 35(0–1–0–0), 37(0–1–0–0), 38(1–4–0–1), 39(1–0–0–0), 40(1–1–0–0), 46(0–1–0–0), 47(0–4–0–0), 48(0–1–0–0).

**Gulf of Mexico Records** – Previously unreported.

**Distribution** – Cape Hatteras, North Carolina, to Fort Pierce, Florida (Wigley and Burns 1971), and continental shelf waters off Mississippi (present study).

*Bowmaniella floridana* Holmquist

*Gastrosaccus dissimilis* Tattersall, 1951 (in part), p. 97, fig. 29

*Bowmaniella dissimilis*: Brattegard, 1970, p. 11, fig. 2

*Bowmaniella floridana* Holmquist, 1975, p. 68

*Bowmaniella floridana*: Stuck, Perry and Heard, 1979, p. 232, figs. 2c, 3c, 4d, 5c

**Occurrence** – Mature males only, station 12(4), 13(6), 24(4).

**Gulf of Mexico Records** – Tattersall (1951), Hopkins (1966), Băcescu (1968a), Brattegard (1970), Solomon (1970), Mackin (1971), Odum and Heald (1972), Williams (1972), Christmas and Langley (1973), Livingston et al. (1977), Cooley (1978).

**Distribution** – In question.

**Remarks** – The taxonomic status of *B. floridana* is currently being reviewed by Thomas E. Bowman of the United States National Museum. Stuck et al. (1979) have discussed the taxonomic problems associated with *B. floridana*, *B. dissimilis* and *B. brasiliensis*.

*Bowmaniella brasiliensis* Băcescu

*Bowmaniella brasiliensis* Băcescu, 1968a, p. 363, figs. 5a–d, 6

*Bowmaniella brasiliensis*: Stuck, Perry and Heard, 1979, p. 233, figs. 2d, 3d, 4c, 5d

**Occurrence** – Mature males only, station 12(4), 13(6), 24(3), 26(2).

**Gulf of Mexico Records** – Conte and Parker (1971), Mackin (1971), Price (1976, 1978).

**Distribution** – Georgia (Brattegard 1974) to Brazil (Băcescu 1968a).

**Remarks** – See Stuck et al. (1979).

*Pseudomma* sp.

**Occurrence** – Station 20NM(females–2, juveniles–2).

**Gulf of Mexico Records** – Genus previously unreported.

**Remarks** – This appears to be an undescribed species of *Pseudomma*; however, description awaits the collection of male specimens.

*Siriella thompsonii* (H. Milne-Edwards)

*Cynthia thompsonii* H. Milne-Edwards, 1837, p. 462

*Siriella thompsonii*: Sars, 1885, p. 205, pl. 36, figs. 1–24

*Siriella thompsonii*: Ii, 1964, p. 62, figs. 14a–h, 15a–n

*Siriella thompsonii*: Stuck, Perry and Heard, 1979, p. 234, figs. 2f, 3f, 4f, 5f

**Occurrence** – Station 17DM(males–1, females–11, ovigerous females–2, juveniles–0), 17NM(6–28–0–3), 19DS(2–7–0–1), 19DB(2–0–1–0), 20NS(13–36–0–0), 21NS(2–4–1–0).

**Gulf of Mexico Records** – Previously unreported.

**Distribution** – Oceanic with wide distribution in the tropical and temperate waters of the world (Ii 1964). Reported from the Straits of Florida (Tattersall 1926), and the continental shelf waters off Mississippi (present study).

*Promysis atlantica* W. M. Tattersall

*Promysis atlantica* W. M. Tattersall, 1923, p. 286, pl. 1, figs. 5–6

*Promysis atlantica*: Tattersall, 1951, p. 245, fig. 56

*Promysis atlantica*: Clarke, 1956, p. 1, figs. 1–6

*Promysis atlantica*: Stuck, Perry and Heard, 1979, p. 234, figs. 2g, 3g, 4g, 5g

**Occurrence** – Station 3DS(males–2, females–7, ovigerous females–0, juveniles–1), 15DB(0–4–0–1), 17NM(2–14–2–6), 18NM(0–2–2–0), 18NS(2–0–0–0), 18NB(0–1–0–0), 19DM(0–3–0–0), 19NS(0–1–0–1), 20NS(2–4–0–0), 21DB(6–9–1–0), 25DB(3–3–0–9).

*Gulf of Mexico Records* – Clarke (1956), Hopkins (1966), Price (1976).

*Distribution* – Brazil north throughout the Caribbean Sea, Gulf of Mexico and Atlantic coast of North America to just north of Cape Hatteras, North Carolina (Brattegard 1973).

*Metamysidopsis swifti* Băcescu

*Metamysidopsis munda*: Tattersall, 1951 (in part), p. 147

*Metamysidopsis munda*: Hopkins, 1966, p. 47

*Metamysidopsis swifti* Băcescu, 1969, p. 350, fig. 1

*Metamysidopsis swifti*: Brattegard, 1970, p. 30, fig. 8

*Metamysidopsis swifti*: Stuck, Perry and Heard, 1979, p. 234, figs. 2h, 3h, 4h, 5h

*Occurrence* – Station 2 (males–0, females–0, ovigerous females–2, juveniles–0), 13(0–4–0–0), 16(23–15–10–0), 26(0–1–0–0).

*Gulf of Mexico Records* – Băcescu (1969), Brattegard (1970), Price (1975, 1976).

*Distribution* – Mullet Key, Florida to Caribbean coast of Colombia (Brattegard 1973).

*Remarks* – *Metamysidopsis munda* was reported from Calcasieu Pass, Louisiana, by Tattersall (1951); however, an examination of these specimens revealed them to be *M. swifti*. Specimens identified as *M. mexicana* from Mullet Key, off Tampa, Florida, were provided to the authors by Thomas E. Bowman of the United States National Museum. These specimens were also found to be *M. swifti*, thus adding the eastern Gulf of Mexico to its known range.

*Bathymysis reniculata* W. M. Tattersall

*Bathymysis reniculata* W. M. Tattersall, 1951, p. 153, figs. 57–58

*Bathymysis reniculata*: Stuck, Perry and Heard, 1979, p. 235, figs. 2i, 3i, 4i, 5i

*Occurrence* – Station 18NM (males–0, females–1, ovigerous females–0, juveniles–0), 20NM(1–0–0–1), 21NB(0–0–0–2), 32(0–1–0–0).

*Gulf of Mexico Records* – Previously unreported.

*Distribution* – Atlantic coast of the United States from New England to the southern tip of Florida (Tattersall 1951) and the north central Gulf of Mexico (present study).

*Remarks* – This species was previously known only from the deeper waters of the western Atlantic Ocean at depths from 220 to 483 meters. It was identified in the present study from continental shelf waters off western Florida at depths of 180 meters. The records from the shelf waters off Mississippi were at much shallower depths, ranging from 37 to 91 meters.

*Mysidopsis bigelowi* W. M. Tattersall

*Mysidopsis bigelowi* W. M. Tattersall, 1926, p. 10, pl. 1, figs. 1–8

*Mysidopsis bigelowi*: Tattersall, 1951, p. 139, fig. 50

*Mysidopsis bigelowi*: Brattegard, 1969, p. 53, fig. 15

*Mysidopsis bigelowi*: Stuck, Perry and Heard, 1979, p. 235, figs. 2j, 3j, 4j, 5j

*Occurrence* – Station 14DB (males–0, females–1, ovigerous females–0, juveniles–8), 17NS(6–11–1–0), 17NM(7–7–3–0), 17NB(5–8–7–1), 18NS(4–3–0–5), 18NM(8–6–1–0), 19NB(0–3–2–0), 20NS(1–0–0–1), 20NM(4–7–0–0), 20DM(1–3–0–0), 21DB(0–1–0–0), 22DB(3–1–1–1), 25DB(7–2–2–12).

*Gulf of Mexico Records* – Tattersall (1951), Clarke (1956), Brattegard (1969), Solomon (1970), Mackin (1971), Price (1976), Livingston et al. (1977), Sheridan (1978).

*Distribution* – Aransas Bay, Texas (Solomon 1970), to Georges Bank (Wigley and Burns 1971).

*Mysidopsis furca* Bowman

*Mysidopsis furca* Bowman, 1957, p. 1, figs. 1–2

*Mysidopsis furca*: Brattegard, 1969, p. 47, fig. 13

*Mysidopsis furca*: Stuck, Perry and Heard, 1979, p. 235, figs. 2k, 3k, 4k, 5k–1

*Occurrence* – Station 17NM (males–0, females–1, ovigerous females–1, juveniles–0), 18NM(0–3–0–0), 18NB(1–1–1–0), 34(1–2–0–0), 44(0–1–0–0), 45(2–0–0–0).

*Gulf of Mexico Records* – Brattegard (1969).

*Distribution* – North Inlet, South Carolina (Bowman 1957), to Pigeon Key, Florida (Brattegard 1969), and continental shelf waters off Mississippi (present study).

*Mysidopsis bahia* Molenock

*Mysidopsis bahia* Molenock, 1969, p. 113, figs. 1–18

*Mysidopsis bahia*: Brattegard, 1970, p. 28, fig. 7

*Mysidopsis bahia*: Stuck, Perry and Heard, 1979, p. 236, figs. 2l, 3l, 4l, 5m

*Occurrence* – Station 1 (males–1, females–0, ovigerous females–0, juveniles–0), 2(0–1–1–0), 6(0–1–0–0), 7(0–1–0–1), 10(1–1–2–0), 12(0–0–1–0), 23(6–6–9–0), 24(0–2–12–0), 27(8–6–7–1).

*Gulf of Mexico Records* – Molenock (1969), Brattegard (1970), Conte and Parker (1971), Mackin (1971), Odum and Heald (1972), Price (1976, 1978), Livingston et al. (1977), Sheridan (1978, 1979).

*Distribution* – Laguna de Tamiahua, Mexico (Price 1978), to Buttonwood Channel, Cape Sable, Florida (Brattegard 1970).

*Mysidopsis almyra* Bowman

*Mysidopsis almyra* Bowman, 1964, p. 15, figs. 1–24

*Mysidopsis almyra*: Brattegard, 1969, p. 50, fig. 14

*Mysidopsis almyra*: Stuck, Perry and Heard, 1979, p. 236, figs. 2m, 3m, 4m, 5n

*Occurrence* – Station 1 (males–14, females–13, ovigerous females–9, juveniles–10), 2(4–6–0–0), 4(13–12–1–7), 5(90–22–41–2), 6(28–25–22–1), 7(7–7–19–0),



8(2-11-11-2), 9(0-3-14-0), 10(15-5-9-0), 11(32-37-24-0), 12(24-25-69-0), 13(51-45-49-0), 15DB(1-1-0-4), 23(1-2-0-0), 24(7-3-4-0), 26(0-1-0-0), 27(10-5-3-2).

**Gulf of Mexico Records** – Bowman (1964), Hopkins (1966), Brattegard (1969), Conte and Parker (1971), Mackin (1971), Kalke (1972), Schmidt (1972), Odum and Heald (1972), Williams (1972), Christmas and Langley (1973), Subrahmanyam et al. (1976), Price (1976, 1978), Adkins and Bowman (1976), Tarver and Savoie (1976), Livingston et al. (1977), Desselle et al. (1978), Gillespie (1978), Cooley (1978), Sheridan (1978).

**Distribution** – Laguna de Tamiahua, Mexico (Price 1978), to St. Johns River, Florida (Price and Vodopich 1979), and Ormond Beach, Florida (personal collection of RWH).

*Brasilomysis castroi* Băcescu

*Brasilomysis castroi* Băcescu, 1968b, p. 81, figs. 3-4

*Brasilomysis castroi*: Brattegard, 1969, p. 61, fig. 18

*Brasilomysis castroi*: Stuck, Perry and Heard, 1979, p. 236, figs. 2n, 3n, 4n, 5o

**Occurrence** – Station 15DB(males-0, females-0, ovigerous females-0, juveniles-1), 17NM(1-0-0-0), 18NS(1-1-0-0), 18NM(0-2-0-0), 22DB(0-1-0-1), 25DB(0-2-0-2).

**Gulf of Mexico Records** – Brattegard (1969), Conte and Parker (1971), Mackin (1971), Price (1976).

**Distribution** – Brazil (Băcescu 1968b) to coast of Georgia (Brattegard 1974), and St. Catherine's Sound, Georgia (personal collection of RWH).

*Heteromysis formosa* S. I. Smith

*Heteromysis formosa* S. I. Smith, 1873, p. 553

*Heteromysis formosa*: Tattersall, 1951, p. 235, figs. 100, 101

*Heteromysis formosa*: Brattegard, 1969, p. 92, fig. 29

*Heteromysis formosa*: Stuck, Perry and Heard, 1979, p. 237, figs. 2o, 3o, 4o, 5p

**Occurrence** – Station 41(1 female).

**Gulf of Mexico Records** – Tattersall (1951).

**Distribution** – Western Atlantic from New England to the eastern Gulf of Mexico; eastern Atlantic Ocean, Norway,

British Isles, France; Mediterranean off Monaco (Brattegard 1969).

**Remarks** – One of the authors (KCS) examined a 12.0-mm specimen (female) from continental shelf waters east of the mouth of Main Pass, Mississippi River.

*Taphromysis louisianae* Banner

*Taphromysis louisianae* Banner, 1953, p. 3, figs. 1-2

*Taphromysis louisianae*: Stuck, Perry and Heard, 1979, p. 237, figs. 2p, 3p, 4p, 5q

**Occurrence** – Station 7(males-4, females-2, ovigerous females-0, juveniles-0).

**Gulf of Mexico Records** – Banner (1953), Conte and Parker (1971), Mackin (1971), Conte (1972), Kalke (1972), Cali (1972), Harrel et al. (1976), Livingston et al. (1977).

**Distribution** – Lavaca River, Texas (Mackin 1971), to Apalachicola Bay, Florida (Livingston et al. 1977).

*Taphromysis bowmani* Băcescu

*Taphromysis bowmani* Băcescu, 1961, p. 517, figs. 1-2

*Taphromysis bowmani*: Brattegard, 1969, p. 89, fig. 28

*Taphromysis bowmani*: Stuck, Perry and Heard, 1979, p. 237, figs. 2q, 3q, 4q-r, 5r-s

**Occurrence** – Station 6(males-1, females-6, ovigerous females-0, juveniles-0), 7(1-1-0-15), 28(3-7-4-0), 29(3-2-0-0).

**Gulf of Mexico Records** – Hopkins (1966), Brattegard (1969), Odum and Heald (1972), Subrahmanyam et al. (1976), Beck (1977), Livingston et al. (1977), Bowman (1977), Cooley (1978), Sheridan (1978, 1979), Compton and Price (1979).

**Distribution** – Upper Laguna Madre (Compton and Price 1979), to Biscayne Bay, Florida (Băcescu 1961).

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REFERENCES CITED

- Adkins, G. & P. Bowman. 1976. A study of the fauna in dredged canals of coastal Louisiana. *La. Wildl. Fish. Comm., Tech. Bull.* 18:1-72.
- Băcescu, M. 1961. *Taphromysis bowmani*, n. sp., a new brackish water mysid from Florida. *Bull. Mar. Sci. Gulf Caribb.* 11(4): 517-524.
- \_\_\_\_\_. 1968a. Contributions to the knowledge of the Gastroscaccinae psammobionte of the tropical America, with the description of a new genus (*Bowmaniella*, n.g.) and three new species of its frame. *Trav. Mus. Hist. nat. 'Grigore Antipa'* 8:355-373.
- \_\_\_\_\_. 1968b. *Afromysis guinensis* n.sp. and *Brasilomysis castroi* n.g. n.sp. from the waters of the tropical Atlantic. *Rev. Roum. Biol. Ser.-Zool.* 13(2):75-86.
- \_\_\_\_\_. 1969. Contributions à la connaissance du genre *Metamysidopsis* W. Tattersall 1951, *M. swifti* n.sp. – *M. mexicana* n.n., confondues avec *M. munda* Zimmer. *Rev. Roum. Biol. Ser.-Zool.* 14(5):349-357.
- Banner, A. H. 1953. On a new genus and species of mysid from

- southern Louisiana. *Tulane Stud. Zool.* 1(1):3-8.
- Beck, J. T. 1977. Reproduction of the estuarine mysid *Taphromysis bowmani* (Crustacea: Malacostraca) in fresh water. *Mar. Biol.* 42:253-257.
- Bowman, T. E. 1957. A new species of *Mysidopsis* (Crustacea: Mysidacea) from the southeastern coast of the United States. *Proc. U.S. Natl. Mus.* 107(3378):1-7.
- \_\_\_\_\_. 1964. *Mysidopsis almyra*, a new estuarine mysid crustacean from Louisiana and Florida. *Tulane Stud. Zool.* 12(1):15-18.
- \_\_\_\_\_. 1977. Mysidacea. Pp. 149-150 in S. H. Hurlbert (ed.), *Biota Acuática de Sudamérica Austral*. San Diego State University, San Diego, California.
- Brattegard, T. 1969. Marine biological investigations in the Bahamas. 10. Mysidacea from shallow water in the Bahamas and southern Florida. Part 1. *Sarsia* 39:17-106.
- \_\_\_\_\_. 1970. Marine biological investigations in the Bahamas. 11. Mysidacea from shallow water in the Bahamas and southern Florida. Part 2. *Sarsia* 41:1-35.
- \_\_\_\_\_. 1973. Mysidacea from shallow water on the Caribbean coast of Colombia. *Sarsia* 54:1-66.
- \_\_\_\_\_. 1974. Mysidacea from shallow water on the Caribbean coast of Panama. *Sarsia* 57:87-108.
- Cali, F. J., III. 1972. Ecology of a brackish pond system in southeastern Louisiana. Master's thesis. Louisiana State University, New Orleans, Louisiana. 62 pp.
- Christmas, J. Y. & W. Langley. 1973. Estuarine invertebrates, Mississippi. Pp 255-319 in J. Y. Christmas (ed.), *Gulf of Mexico Estuarine Inventory and Study, Mississippi*. Gulf Coast Research Laboratory, Ocean Springs, Mississippi.
- Clarke, W. D. 1956. A further description of *Promysis atlantica* Tattersall (Crustacea, Mysidacea). *Am. Mus. Novit.* 1755:1-5.
- Compton, C. E. & W. W. Price. 1979. Range extension to Texas for *Taphromysis bowmani* Băcescu (Crustacea: Mysidacea) with notes on its ecology and generic distribution. *Cont. Mar. Sci.* 22:121-125.
- Conte, F. S. 1972. Occurrence of *Taphromysis louisianae* Banner (Crustacea, Mysidacea) in marsh embayments on the Texas coast. *Southwest. Nat.* 17(2):203-204.
- \_\_\_\_\_. & J. C. Parker. 1971. Ecological aspects of selected Crustacea of two marsh embayments of the Texas coast. Texas A&M University, Sea Grant Program. 184 pp.
- Cooley, N. R. 1978. An inventory of the estuarine fauna in the vicinity of Pensacola, Florida. *Fla. Mar. Res. Publ.* 31:1-119.
- Desselle, W. J., M. A. Poirrier, J. S. Rogers & R. C. Cashner. 1978. A discriminant functions analysis of sunfish (*Lepomis*) food habits and feeding niche segregation in the Lake Pontchartrain, Louisiana estuary. *Trans. Am. Fish. Soc.* 107(5):713-719.
- Farrell, D. II. 1979. Guide to the shallow-water mysids from Florida. *Fla. Dep. Environ. Reg. Tech. Ser.* 4(1):1-69.
- Gillespie, M. C. 1978. A study of Louisiana's major estuaries and adjacent offshore waters. Section II. Zooplankton analysis. *La. Wildl. Fish. Comm., Tech. Bull.* 27:27-80.
- Hansen, H. J. 1910. The Schizopoda of the Siboga Expedition. *Siboga Exped.* 37:1-123.
- Harrel, R. C., J. Ashcraft, R. Howard & L. Patterson. 1976. Stress and community structure of macrobenthos in a Gulf coast riverine estuary. *Cont. Mar. Sci.* 20:69-81.
- Holmquist, C. 1975. A revision of the species *Archaeomysis grebnitzkii* Czernaivsky and *A. maculata* (Holmes) (Crustacea, Mysidacea). *Zool. Jb. Syst. Bd.* 102:51-71.
- Hopkins, T. L. 1966. The plankton of the St. Andrew Bay system, Florida. *Publ. Inst. Mar. Sci. Univ. Tex.* 11:12-64.
- Ii, N. 1964. *Mysidae* (Crustacea). *Fauna Japonica*. Biogeographical Society of Japan. Tokyo. 610 pp.
- Kalke, R. D. 1972. Species composition, distribution, and seasonal abundance of macro-zooplankton in intake and discharge areas before and during early operation of the Cedar Bayou generating station. Master's thesis. Texas A&M University. 187 pp.
- Krøyer, H. N. 1861. Et bidrag til Kundskab om Krebsdyrfamilien Mysidae. *Naturh. Tidsskr. Copenhagen, Ser. 3.* 1:1-75.
- Livingston, R. J., P. F. Sheridan, B. G. McLane, F. G. Lewis, III & G. G. Kobylinski. 1977. The biota of the Apalachicola Bay system: Functional relationships. Pp. 75-100 in R. J. Livingston and E. A. Joyce, Jr. (eds.), *Proceedings of the Conference on the Apalachicola Drainage System, 23 April 1976*. Fla. Mar. Res. Publ. 26.
- Mackin, J. G. 1971. A study of the effects of oil field brine effluents on biotic communities in Texas estuaries. Texas A&M Research Foundation Project 735. 71 pp.
- Milne-Edwards, H. 1837. *Histoire naturelle des crustacés*. Vol. 2: 1-531.
- Molenock, J. 1969. *Mysidopsis bahia*, a new species of mysid (Crustacea: Mysidacea) from Galveston Bay, Texas. *Tulane Stud. Zool. Bot.* 15(3):113-116.
- Nouvel, H. 1943. Mysidaces provenant des Campagne du Prince Albert Ier de Monaco. *Result. Camp. Scient. Prince Albert I* 105:1-128.
- Odum, W. E. & E. J. Heald. 1972. Trophic analyses of an estuarine mangrove community. *Bull. Mar. Sci.* 22(3):671-738.
- Price, W. W. 1975. A new locality record for *Metamysidopsis swifti* Băcescu 1969 (Crustacea: Mysidacea) from the Gulf coast of Mexico. *Southwest. Nat.* 20(1):138.
- \_\_\_\_\_. 1976. The abundance and distribution of Mysidacea in the shallow waters of Galveston Island, Texas. Doctor's dissertation. Texas A&M University. 207 pp.
- \_\_\_\_\_. 1978. Occurrence of *Mysidopsis almyra* Bowman, *M. bahia* Molenock and *Bowmaniella brasiliensis* Băcescu (Crustacea, Mysidacea) from the eastern coast of Mexico. *Gulf. Res. Rept.* 6(2):173-175.
- \_\_\_\_\_. & D. S. Vodopich. 1979. Occurrence of *Mysidopsis almyra* (Mysidacea, Mysidae) on the east coast of Florida, U.S.A. *Crustaceana* 36(2):194-196.
- Sars, G. O. 1885. Report on the Schizopoda collected by H.M.S. "Challenger" during the years 1873-76. *Challenger Reports, Zoology* 13(37):1-225.
- Schmidt, M. 1972. Abundance and distribution of macro-crustaceans in the intake and discharge areas before and during early operation of the Cedar Bayou generating station. Master's thesis. Texas A&M University. 197 pp.
- Sheridan, P. F. 1978. Food habits of the bay anchovy, *Anchoa mitchilli*, in Apalachicola Bay, Florida. *Northeast Gulf Sci.* 2(2):126-132.
- \_\_\_\_\_. 1979. Trophic resource utilization by three species of sciaenid fishes in a northwest Florida estuary. *Northeast Gulf Sci.* 3(1):1-14.
- Smith, S. I. 1873. Report upon the invertebrate animals of Vineyard Sound and the adjacent waters, with an account of the physical characters of the region. *Rep. Comm. Fish. Fish., 1871 and 1872*. Pp. 295-747.
- Solomon, D. E. 1970. The Peracarida (Crustacea) from selected areas of the Texas coast. Master's thesis. Texas Christian University.
- Stuck, K. C., H. M. Perry & R. W. Heard. 1979. An annotated key to the Mysidacea of the north central Gulf of Mexico. *Gulf Res. Rept.* 6(3):225-238.
- Subrahmanyam, C. B., W. L. Kruczynski & S. H. Drake. 1976. Studies on the animal communities in two north Florida salt marshes. Part II. Macroinvertebrate communities. *Bull. Mar. Sci.* 26(2):172-195.

- Tarver, J. W. & L. B. Savoie. 1976. An inventory and study of the Lake Pontchartrain-Lake Maurepas estuarine complex. Phase II. Biology. *La. Wildl. Fish. Comm., Tech. Bull.* 19:7-99.
- Tattersall, O. S. 1955. Mysidacea. *"Discovery" Rep.* 28:1-190.
- Tattersall, W. M. 1923. Crustacea. Part VII.-Mysidacea. British Antarctic ("Terra Nova") Expedition, 1910. *Nat. Hist. Rep., Zoology* 3(10):273-304.
- \_\_\_\_\_. 1926. Crustaceans of the orders Euphausiacea and Mysidacea from the western Atlantic. *Proc. U.S. Natl. Mus.* 69(2634):1-33. ❖
- \_\_\_\_\_. 1951. A review of the Mysidacea of the United States National Museum. *U.S. Natl. Mus. Bull.* 201:1-292.
- Wigley, R. L. & B. R. Burns. 1971. Distribution and biology of mysids (Crustacea, Mysidacea) from the Atlantic Coast of the United States in the NMFS Woods Hole collection. *Fish. Bull.* 69(4):717-746.
- Williams, G. E. 1972. Species composition, distribution and abundance of macro-benthic organisms in the intake and discharge areas of a steam-electric generating station before and during initial startup. Master's thesis. Texas A&M University. 260 pp.