

CRUSTACEA FROM THE EOCENE AND ${\it RANINELLA}$ FROM THE CRETACEOUS

PLATE 14—CRUSTACEA FROM THE EOCENE AND Raninella FROM THE CRETACEOUS

Figures 1-6.—Ischnodactylus cookei Rathbun, n.sp. [See page 63.]

1-4.—Upper (× 2.89) and outer (× 1.44) views of right manus and fixed finger of holotype, and outer and lower views (× 2.16) of right manus and fixed finger of paratype, Cat. No. 371512; from Sucarnoochee beds, Midway, in Prairie Creek region, Wilcox County, Alabama. 5, 6.—Prehensile and opposite views of fragment of finger, × 3.61; Alabama Museum of Natural History; from Sucarnoochee beds, at Estelle, Wilcox County, Alabama.

FIGURES 7-12.—Ischnodactylus cultellus Rathbun, n.sp. [See page 64.]

7-9.—Upper, lower, and outer views of dactylus of left cheliped, holotype, × 2.16; Alabama Museum of Natural History; from Sucarnoochee beds at Estelle, Wilcox County, Alabama. 10-12.—Lower, upper, and outer views of right propodal finger, × 2.16; Johns Hopkins University; from Dry Creek, Jackson, Hinds County, Mississippi (horizon not given).

FIGURES 13-18.—Paguristes johnsoni Rathbun, n.sp. Lower, upper, distal, and outer views of right major palm, holotype, × 1.44, Cat. No. 371705, and upper and outer views of left minor chela, × 2.16, Cat. No. 371706; from Sucarnoochee beds, Prairie Creek and Pine Barren section, Wilcox County, Alabama. [See page 78.]

FIGURES 19-22.—Ischnodactylus (?) dentatus Rathbun, n.sp. Lower, outer, and inner views of right propodal finger, holotype, × 3.61, and inner view of same finger of paratype, × 3.61; Johns Hopkins University; from lower Eocene at Dry Creek, Jackson, Hinds County, Mississippi. [See page 65.]

FIGURES 23, 24.—Ischnodactylus (?) sp. Outer and distal views of right manus (incomplete), × 2.89, Cat. No. 371514; from Sucarnoochee beds, Prairie Creek, Wilcox County, Alabama. [See page 66.]

FIGURES 25-31.—Hoploparia johnsoni Rathbun, n.sp. Outer view of left palm, for surface, × 1.44, Cat. No. 371520; inner view of basal portion of dactylus of right cheliped, showing tubercles, × 2.89; Cat. No. 371520; left profile of smaller carapace and abdomen, showing pleura, × 1.44, Cat. No. 371518; left profile of larger carapace and abdomen, holotype, × 1.08, Cat. No. 371518; outer view of right propodal finger, × 1.44, Cat. No. 371520; outer view of right palm with finger, × 1.08, Cat. No. 371520; inner view of largest palm (right), × 1.08, Cat. No. 371520; from Sucarnoochee beds, at Prairie Creek and Pine Barren section, Wilcox County, Alabama. [See page 61.]

FIGURES 32, 33.—Raninella mucronata Rathbun, n.sp. Dorsal and ventral views of holotype, × 4.33; W. S. Adkins (284), University of Texas; Denton clay, at Blue Mound near Haslet, Tarrant County, Texas. [See page 50.]

PLATE 15—CRUSTACEA FROM THE ECCENE

FIGURES 1-3, 5, 6.—Callianassa ulrichi C. A. White. [See page 71.]

1-3.—Inner and outer views of left chela, \times 1.44, and outer view of right propodus (incomplete) and fixed finger, \times 2.16, Cat. No. 8910; from Clayton limestone, at Johnson's Well, top of Capitol Hill, corner of Battery and 9th streets, station 2218, Hayden Survey, Little Rock, Pulaski County, Arkansas. 5-6.—Outer views of right and left movable fingers, \times 2.16, Cat. No. 8910 (See above, figs. 1-3).

FIGURE 4. Callianassa ulrichi claibornensis Rathbun, n.subsp. Outer view of left propodal finger, × 2.16, Cat. No. 371588; of Claiborne age; from east bank of Chickasawhay River about half a mile below Enterprise, Clarke County, Mississippi. [See page 72.]

FIGURES 7-10.—Callianassa alabamensis Rathbun, n.sp. Distal and outer views of right chela, holotype, × 1.08, and outer and upper views of dactylus of right cheliped, paratype, × 1.44, Cat. No. 371505; from Sucarnoochee beds, at Prairie Creek, Wilcox County, Alabama. [See page 70.]

FIGURES 11-14.—Callianassa beta Rathbun, n.sp. Inner, outer, upper, and distal views, of left manus, × 2.16, Cat. No. 371507; Sucarnoochee beds, Pine Barren section, Wilcox County, Alabama. [See page 68.]

FIGURES 15-18.—Callianassa epsilon Rathbun, n.sp. Upper, outer, inner, and distal views of left manus, × 2.16, Cat. No. 371510; Sucarnoochee beds, Prairie Creek region, Wilcox County, Alabama. [See page 69.]

FIGURES 19-22.—Callianassa delta Rathbun, n.sp. Inner, outer, upper, and distal views of right manus and piece of finger, × 1.44, Cat. No. 371509; Sucarnoochee beds, Prairie Creek, Wilcox County, Alabama. [See page 69.]

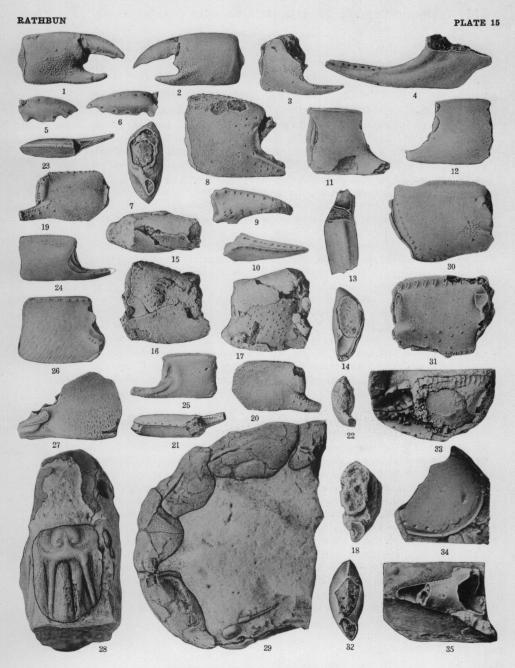
FIGURES 23-25, 27.—Callianassa alpha Rathbun, n.sp. [See page 67.]

23-25.—Upper, outer, and inner views of propodus of right cheliped, holotype, \times 2.16, Cat. No. 371506; Sucarnoochee beds, Prairie Creek, Wilcox County, Alabama. 27.—Outer view of broken palm and finger, showing characteristic excrescence at base of finger, \times 2.89, Cat. No. 371506 (See above, figs. 23-25).

FIGURES 26, 28, 29.—Callianassa alpha Rathbun, n. var. [See page 67.]

26.—Inner view of left palm, × 2.16, Cat. No. 371572; Jackson formation, in large ravine below old reservoir at Yazoo City, about one mile south of Y. and M. V. R. R. station along street-car line, Yazoo County, Mississippi. 28-29.—Dorsal view of telson and right profile of abdomen showing punctae on middle segments, × 2.16, Cat. No. 371573 (See above, with 371572).

FIGURES 30-35.—Callianassa hulli Rathbun, n.sp. Outer, inner, and distal views of right manus, holotype, \times 3.61; inner view of right chela embedded in nodule, \times 3.61; outer view of lower part of wrist, \times 7.2; and inner view of immovable finger embedded, \times 7.2, Cat. No. 371576; from the Midway, at Buzzard Bluff, Miller County, Sec. 16, T. 14 S., R. 26 W., Arkansas. [See page 72.]



CRUSTACEA FROM THE EOCENE