

CRUSTACEA FROM THE CRETACEOUS

PLATE 10—CRUSTACEA FROM THE CRETACEOUS

FIGURES 1-3.—*Linuparus vancouverensis* (Whiteaves). Dorsal view of carapace, ventral view showing sternum and basal articles of appendages, and abdomen, first five segments, $\times .72$, Cat. No. 73706; Marietta formation of Denison group of Comanche series, from bluff on Washita River at Frisco Railroad bridge, left bank, 2½ miles east of Platter, Bryan County, Oklahoma. [See page 36.]

FIGURES 4-10.—*Linuparus adkinsi* Rathbun, n.sp. Denton clay, Texas; W. S. Adkins, University of Texas. [See page 37.]

4.—Carapace, holotype, dorsal view, $\times 2.16$ (284); Northern Tarrant County, southeast of Haslet and east of Blue Mound. 5, 6.—Carapace, paratype, dorsal view showing orbital spine, and front view, $\times 2.16$ (182); about 100 yards east of 210 (see below), about 2 miles north of Denison, south of St. L. S. F. Railway track. 7.—Sternum, $\times 3.61$ (210); Grayson County, 2 miles north of Denison and half a mile east of type-locality of Denton clay, on south side of St. L. S. F. Railway track. 8.—Abdomen, $\times 2.16$ (182) (See above). 9.—Another abdomen showing pleura of third, fourth, and fifth segments, $\times 2.16$ (182) (See above). 10.—Left mandible, $\times 5.77$ (182) (See above).

FIGURES 11, 12.—*Archaeocarabus* (?) *whitfieldi* (Pilsbry). Upper and outer views of right manus, $\times 1.08$, Cat. No. 4693, Philadelphia Academy; fingers after Pilsbry; Upper Cretaceous, Burlington County, New Jersey. [See page 38.]

FIGURES 13-15.—*Graptocarcinus texanus* Roemer. Ventral, dorsal, and front views of carapace, cotype, $\times 1.08$; University of Texas; from lower part of Buda limestone at Shoal Creek, 29th Street, Austin, Travis County, Texas. [See page 41.]

FIGURES 16-18.—*Tetracarcinus subquadratus* Weller. [See page 41.]

16.—Carapace, cotype, $\times 2.89$; New Jersey State Museum; Cliffwood clay, Cliffwood Point, New Jersey. 17.—Carapace, $\times 2.16$, Cat. No. 73716; Lewis shale, 8 miles west of Rawlins, on Lincoln Highway (loc. 10722), Wyoming. 18.—Left palm and fixed finger, $\times 2.16$; New Jersey State Museum; Tinton beds, Beers Hill, New Jersey.

FIGURE 19.—Macruran undetermined. Left side of 3 segments of abdomen, $\times 1.44$; W. S. Adkins (210), University of Texas; from Denton clay, 2 miles north of Denison, Grayson County, Texas, half a mile east of Kde type-locality on south side St. L. S. F. Railway track. [See page 29.]

FIGURE 20.—*Dakoticancer overana*^{australis} Rathbun. Carapace with basal portion of rostrum, $\times 2.16$, Cat. No. 73840; from Ripley formation, at Whitten farm in southwest corner of southwest quarter of Sec. 21, T. 8 S., R. 4 E., Union County, Mississippi. [See page 40.]

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FIGURES 1-5.—*Xanthosia aspera* Rathbun. Denton clay, Grayson County, Texas; W. S. Adkins, University of Texas. [See page 41.] 1, 2.—Carapace and ventral view of holotype, $\times 2.89$ (182); about 100 yards east of loc. 210, about 2 miles north of Denison, south of St. L. S. F. Railway track. 3, 4.—Front view showing orbits and dorsal view of anterior half of carapace, paratype, $\times 2.89$; same locality as figs. 1 and 2. 5.—Fragment of carapace of largest specimen, $\times 2.89$ (210); 2 miles north of Denison, half a mile east of Kde type-locality on south side St. L. S. F. Railway track.

FIGURES 6-8.—*Xanthosia wintoni* Rathbun. Denton clay, Grayson County, Texas; W. S. Adkins, University of Texas. [See page 42.] 6.—Paratype, lateral margins lacking, dorsal view, $\times 2.16$; about 100 yards east of loc. 210, about 2 miles north of Denison, south of St. L. S. F. Railway track. 7, 8.—Holotype, front view showing basal article of antennules, and dorsal view (hinder part lacking), $\times 2.16$; 2 miles north of Denison, half a mile east of Kde type-locality on south side St. L. S. F. Railway track.

FIGURE 9.—*Necrocarcinus oklahomensis* Rathbun, n.sp. Carapace, $\times 1.08$, Cat. No. 73715; from Marietta formation of Denison group of Comanche series, at bluff on Washita River at Frisco Railroad bridge, left bank $2\frac{1}{2}$ miles east of Platter, Bryan County, Oklahoma. [See page 44.]

FIGURES 10, 11.—*Dromia* (?) *anomala* Rathbun, n.sp. Dorsal view of carapace, $\times 4.33$, and upper-outer view of manus, $\times 2.89$; W. S. Adkins (210), University of Texas; from Denton clay, 2 miles north of Denison, half mile east of Kde type-locality on south side St. L. S. F. Railway track, Grayson County, Texas. [See page 43.]

FIGURES 12-19.—*Caloxanthus americanus* Rathbun, n.sp. Inner, outer, and upper views of right chela, $\times 2.89$; outer view of left chela, $\times 2.89$; upper view of right cheliped, $\times 3.61$; dorsal, frontal, and ventral views of body, $\times 5.05$; W. S. Adkins (209), University of Texas; from Pawpaw clay, $4\frac{1}{2}$ miles southeast of Fort Worth, a quarter of a mile south of I. G. N. Railway bridge across Sycamore Creek, Tarrant County, Texas. [See page 56.]

FIGURES 20-22.—*Necrocarcinus texensis* Rathbun, n.sp. Texas; W. S. Adkins, University of Texas. [See page 45.] 20-21.—Front and dorsal views of carapace, holotype, $\times 2.16$ (182); from Denton clay, about 100 yards east of loc. 210, about 2 miles north of Denison, south of St. L. S. F. Railway track, Grayson County. 22.—Dorsal view of carapace, paratype, $\times 2.16$ (241); from Pawpaw clay, at Haslet station at Blue Mound, northern Tarrant County.

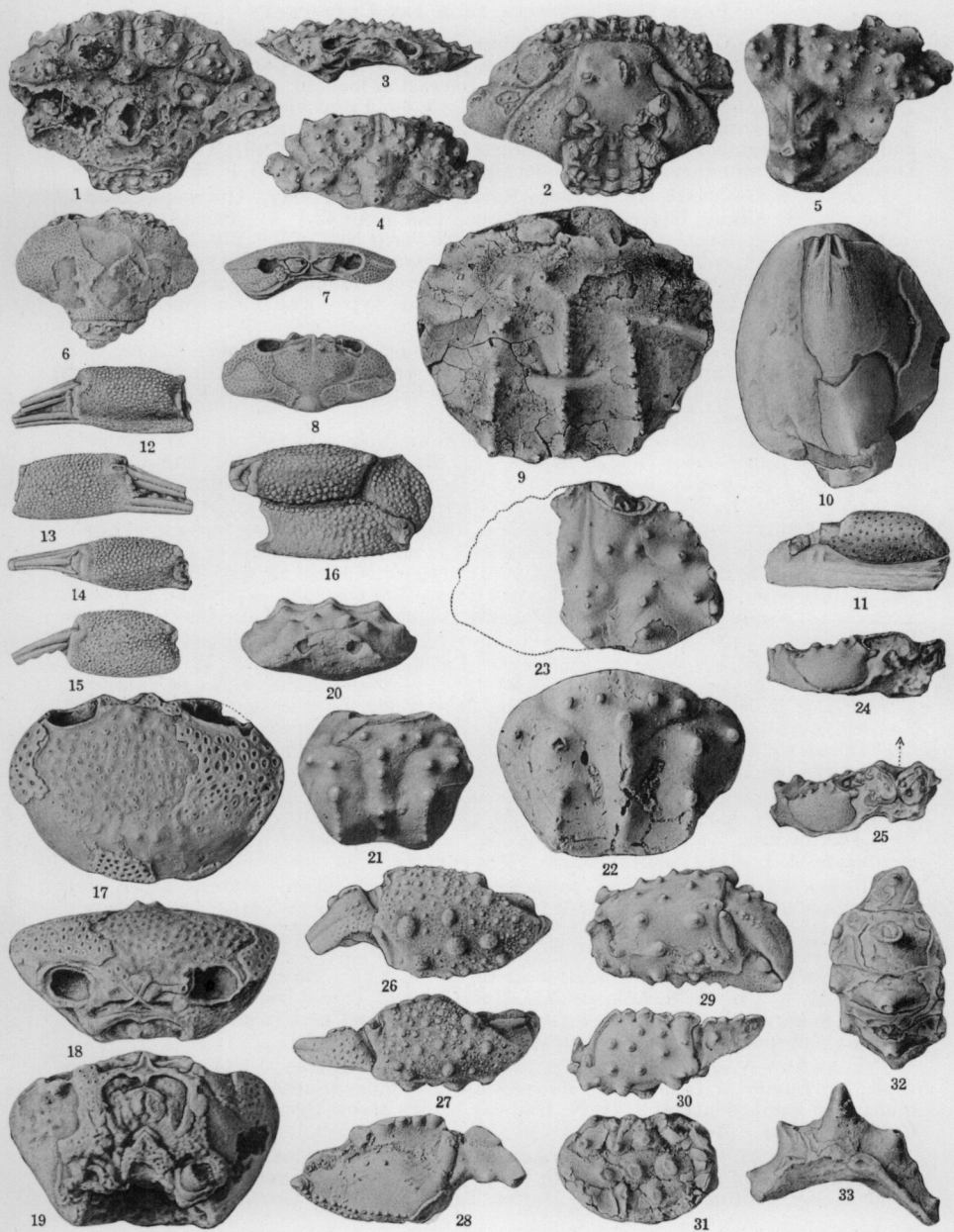
FIGURES 23-25.—*Necrocarcinus graysonensis* Rathbun, n.sp. Dorsal view, right profile showing orbit and front view, $\times 2.16$; W. S. Adkins (210), University of Texas; from Denton clay, 2 miles north of Denison, half a mile east of Kde type-locality on south side St. L. S. F. Railway track. [See page 45.]

FIGURES 26-28.—*Prehepatus pawpawensis* Rathbun, n.sp. Outer, upper, and inner views of left chela, $\times 3.61$; W. S. Adkins, University of Texas; from Pawpaw clay, 4 miles southwest of Fort Worth, half a mile south of Baptist Seminary, Tarrant County, Texas. [See page 48.]

FIGURES 29, 30.—*Prehepatus cretaceus* Rathbun, n.sp. Outer and upper views of right chela, $\times 2.16$; W. S. Adkins (211), University of Texas; from Duck Creek limestone, 3 miles north of Denison, on south bank of Duck Creek in marl above *Pervinquieria aff. trinodosa*, Grayson County, Texas. [See page 47.]

FIGURE 31.—*Necrocarcinus* (?) sp. Fragment of carapace, $\times 1.44$; W. S. Adkins (209), University of Texas; from Pawpaw clay, $4\frac{1}{2}$ miles southeast of Fort Worth, a quarter of a mile south of I. G. N. Railway bridge across Sycamore Creek, Tarrant County, Texas. [See page 46.]

FIGURES 32, 33.—*Raninella* (?) *armata* Rathbun, n.sp. Flat view and left profile of segments 3-7 of abdomen, $\times 2.16$; W. S. Adkins (284), University of Texas; from Denton clay, at Blue Mound, near Haslet, Tarrant County, Texas. [See page 50.]



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