



FIG. 23. Pedal phalanges in dorsal view (except unguis in lateral view) of *Grallistrix geleches*, new genus and species, holotype USNM 386140 (A), compared with *Strix aluco*, USNM 559072 (B). Scale = 3 cm.

***Grallistrix auceps*, new species**
(Figs. 24B, 25B, D, 26A, 27A)

"long-legged Kauai owl" Olson and James, 1982b:38, 44; 1984:771.

Holotype: Associated partial skeleton, BBM-X 150202. Collected 19 November 1976 by Joan Aidem, Stephen L. Montgomery, and others. The specimen consists of: sternum (Fig. 25B, D), left scapula, nearly complete pelvis in several pieces (including portions numbered BBM-X 150109 and BBM-X 150159), seven vertebrae, right and left humeri (Figs. 24B, 26A), left radius, distal two-thirds of left ulna, right and left femora, left tibiotarsus including a portion numbered BBM-X 150162 (Fig. 27A), various rib and other fragments.

Type locality: Site 303, Makawehi dunes, Kauai, Hawaiian Islands.

Distribution: Kauai: Makawehi dunes.

Etymology: Latin, *auceps*, a bird-catcher, from the ornithophagous habits of this and the other species of the genus. The name is a common noun in apposition.

Measurements (mm) of holotype: Sternum: length along midline, 40.5; width across second costal facet, 26; depth through apex of carina, 16.0. Scapula: length, ca. 46. Pelvis: length of sacrum along midline, 40.9; width through antitrochanters, ca. 33.5; greatest diameter of acetabulum, 6.1; greatest diameter of ilioischiatric fenestra, 9.2. Humerus: length, 80.7; proximal width, 15.6; shaft width at mid-



FIG. 24. Humeri of *Grallistrix*, new genus, in ventral view: (A) *G. geleches*, new species, holotype USNM 386140; (B) *G. auceps*, new species, holotype BBM-X 150202; (C) *G. orion*, new species, USNM 386182. Scale = 3 cm.

point, 5.4; distal width, 14.5. Radius: length, 83.3. Ulna: width and depth of shaft at approximate midpoint, 3.3×3.6 ; distal width and depth, 6.4×7.2 . Femur: length, 66.7; proximal width, 11.6; shaft width at midpoint, 4.9; distal width, 12.5. Tibiotarsus: length, 109.1; proximal width, 11.5; shaft width at midpoint, 5.0; distal width, 12.1.

Paratypes: Measurements (mm) follow in parentheses when available. Rostrum, BBM-X 152741 (length of premaxillary symphysis from anterior margin of nasal fossa, 15.8; width at juncture of quadratojugals, ca. 18.5); left carpometacarpus, BBM-X 512894 (length, 43.1), left tibiotarsus, USNM 386228 (length, 110.6).

The following are from the same locality as the holotype and are very likely from the same individual: distal end of right radius BBM-X 152824; proximal end of left carpometacarpus BBM-X 150148; right tibiotarsus lacking condyles, BBM-X 150163; right fibula BBM-X 150160; five pedal phalanges BBM-X 150094, BBM-X 150170, BBM-X 150171, BBM-X 152833, BBM-X 152834.

Measurements of paratypes: See above.

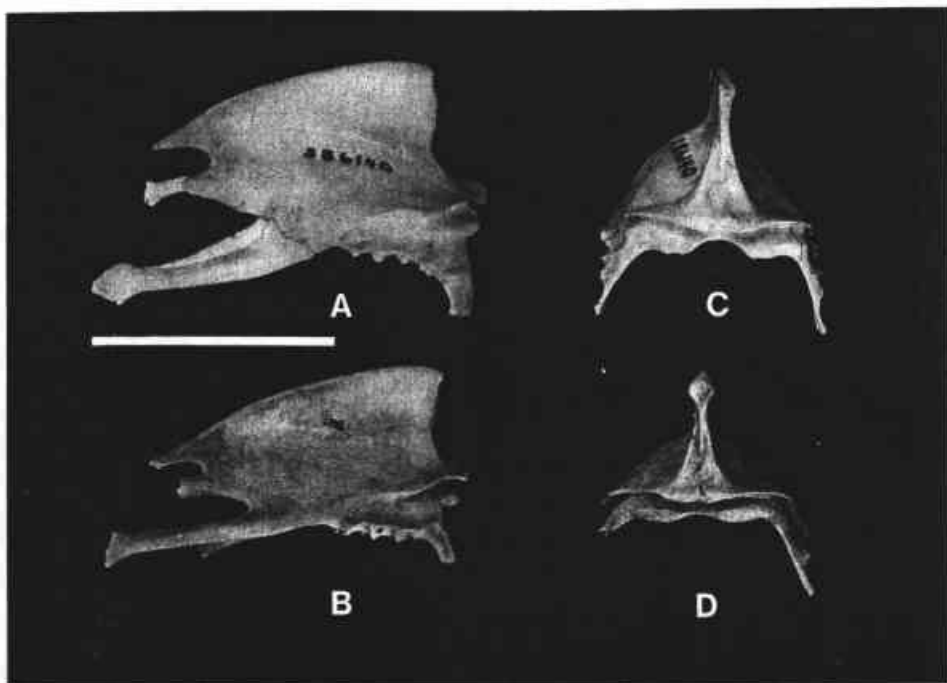


FIG. 25. Sterna of *Grallistrix geleches*, new genus and species, holotype USNM 386140 (A, C) and *G. auceps*, new species, holotype BBM-X 150202 (B, D). Left lateral view (A, B); anterior view (C, D). Scale = 3 cm.

Diagnosis: Larger than *Grallistrix orion* or *G. erdmani* (Table 4); nearly identical in size to *G. geleches* but differing qualitatively as follows: humerus in ventral view (Fig. 24B) with ventral tubercle displaced proximo-dorsally so as to expose most of the pneumatic foramen, this foramen being partially obscured in *G. geleches*; brachial depression of humerus more extensive, extending farther proximally; carina of sternum lower (Fig. 25D), with anterior margin not markedly set back from manubrium, dorsal intercoracoidal notch shallow and indistinct; rostrum apparently deeper.

Remarks: There may be some proportional differences as well between *G. auceps* and *G. geleches*, with the limited material in *G. auceps* seeming to indicate a somewhat smaller and more gracile hindlimb combined with a wing as large or larger than in *G. geleches*. Given the degree of isolation of Kauai and the fact that the smaller species *G. orion* of Oahu intervenes geographically between *G. auceps* and *G. geleches*, it is unlikely that the similarity in size between the last two species is indicative of their being more closely related to one another than to other members of the genus.

***Grallistrix orion*, new species**
(Figs. 24C, 26C, 27C, 28E–H, 29B, D, F)

“long-legged Oahu owl” Olson and James, 1982b:38, 44; 1984:771; James, 1987:225.

Holotype: Right tarsometatarsus, USNM 386170 (Figs. 28E, 29F). Collected July 1981 by Storrs L. Olson, Helen F. James and others.