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BULBULS

BY

EDGAR A. MEARNS

Associate in Zoology, United States National Museum



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DESCRIPTIONS OF EIGHT NEW AFRICAN BULBULS

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Four of the forms of African birds here described are from the collection made by the Childs Frick African Expedition, 1911-12; three are from the Smithsonian African Expedition, 1909-10 collection, made under the direction of Col. Theodore Roosevelt; and one is from the Paul J. Rainey Expedition, 1911-12.

The names of special tints and shades of colors used in this paper conform to Robert Ridgway's "Color Standards and Color Nomenclature," issued March 10, 1913. All measurements are in millimeters.

PHYLLASTREPHUS STREPITANS FRICKI, new subspecies

Frick's Bristle-necked Bulbul

Type-specimen.—Adult male, Cat. No. 244836, U. S. Nat. Mus.; collected on the Tana River, below Camp No. 4 of the Childs Frick African Expedition, in British East Africa, August 17, 1912, by Edgar A. Mearns. (Original number, 23716.)

Characters.—This subspecies is more closely related to *Phyllastrephus strepitans pauper* (Sharpe) from Schebeli in western Somaliland than to *P. s. strepitans* Reichenow from Malindi in German East Africa. The back, in typical *strepitans* is sayal brown, in *pauper* snuff brown, and in *fricki* drab. In size the three forms are practically alike.

Description of adult male and female.—Upper parts, including forehead, crown, mantle, and wings drab; upper tail-coverts cinnamon-brown; tail-feathers mummy brown, obscurely cross-banded with darker; wing-quills externally edged with dresden brown; chest pale drab-gray; sides, flanks, and outer aspect of thighs pale ceruleo-drab; throat and abdomen grayish white; crissum and inner aspect of thighs pale drab-gray; axillars, under wing-coverts, and inner border of quills tulleul-buff. In a fresh specimen the iris was dark, brownish red; bill olivaceous black, paler below at base; feet and claws plumbeous.

Measurements of type.—Length of skin, 175 mm.; wing, 81; spurious primary, 31; tail, 84.5; culmen (chord), 19; tarsus, 23.

Average measurements of nine adult males.—Wing, 81.2; tail, 84.8; culmen (chord), 18; tarsus, 22.33.

Average measurements of four adult females.—Wing, 75.25; tail, 79.75; culmen (chord), 16.88; tarsus, 21.88.

PHYLLASTREPHUS CERVINIVENTRIS LÖNNBERGI, new subspecies

Lönnerberg's Bulbul

"*Phyllastrephus cerviniventris?*" Lönnerberg, Kungl. Sv. Vet. Akad. Handl., 47, No. 5, 1911, p. 115 (one day's march south of Meru boma, British East Africa).

Type-specimen.—Adult male, Cat. No. 244837, U. S. Nat. Mus.; collected on the Government Trail, Tharaka District, British East Africa, August 12, 1912, by Edgar A. Mearns. (Original number, 23569.)

Characters.—Most closely related to *Phyllastrephus cerviniventris cerviniventris* Shelley, but with the head more cinereous, the back darker olive, and the under parts more grayish, and more rusty on the middle of the chest and abdomen.

Description of type (adult male).—Top and sides of head drab-gray; mantle light grayish olive; wings grayish olive; upper tail-coverts and tail cinnamon-brown; under parts drab-gray, washed with ecru-drab on middle of chest and abdomen, deepening to light cinnamon-drab on crissum; axillars and lining of wings cinnamon-drab; inner border of quills edged with drab-gray. In the dry skin the maxilla and tip of mandible are drab, remainder of mandible yellowish white; tarsi yellowish white; toes and claws pale brown.

Measurements of type (adult male).—Length of skin, 165 mm.; wing, 81; tail, 81; culmen (broken); tarsus, 22.

PHYLLASTREPHUS PLACIDUS KENIENSIS, new subspecies

Mount Kenia Bulbul

Type-specimen.—Adult male, Cat. No. 215281; U. S. Nat. Mus.; collected at the altitude of 8,500 feet, on Mount Kenia, British East Africa, October 10, 1909, by Edgar A. Mearns. (Original number, 17066.)

Characters.—More closely resembling *Phyllastrephus placidus placidus* Shelley from Mount Kilimanjaro than *P. p. grotei* from Mikindani. It differs from *grotei* by the redness of its tail, and

darker upper parts. From *placidus* it may be readily distinguished by its more greenish gray upper parts and paler, less brownish, head.

Description of adult male and female.—Upper side of head, nape, mantle, and rump grayish olive; eye-ring, grayish white; lores and region below eye grayish olive mixed with grayish white; cheeks and ear-coverts grayish olive, the latter streaked with grayish white; wings light brownish olive, the quills edged with isabella color; upper tail-coverts and tail snuff brown; chin and throat yellowish white; remainder of under parts, light olive-gray, the feathers of the chest centrally streaked with more yellowish gray; thighs olive-gray, axillars light olive-gray; under wing-coverts and inner border of quills drab-gray.

Measurements of type (adult male).—Length of skin, 290; wing, 89, spurious primary, 38; tail, 93; culmen (chord), 16; height of bill at anterior border of nostril, 4.7; width of bill at anterior border of nostril, 4; tarsus, 24.

Average measurements of eight adult male topotypes.—Wing, 88.5; tail, 86; culmen (chord), 16.25; tarsus, 23.31.

Average measurements of three adult female topotypes.—Wing, 78.3; tail, 80; culmen (chord), 15; tarsus, 21.5.

CHLOROCICHLA FLAVIVENTRIS MERUENSIS, new subspecies

Meru Yellow-bellied Bulbul

Type-specimen.—Adult male, Cat. No. 244777, U. S. Nat. Mus.; collected in the Meru Forest, on the Equator, near Mount Kenia, in British East Africa, August 10, 1912, by Edgar A. Mearns. (Original number, 23546.)

Characters.—Most closely related to *Chlorocichla flaviventris mombasæ* (Shelley), from which it differs in having the top of the head much darker, the back more greenish olive, and the under parts much yellower.

Description of type (adult male).—Upper side of neck and head, including forehead and lores, sepia; eye-ring yellowish white; cheeks and ear-coverts deep olive; mantle, rump, and upper tail-coverts greenish olive; upper wing-coverts and secondaries sepia, bordered with greenish olive; primaries narrowly edged with yellowish olive; tail-feathers sepia, the central pair more greenish and obscurely cross-banded, the others externally broadly bordered with greenish olive; chin, throat, middle of chest, abdomen, and crissum

deep colonial buff; sides of chest, sides of body, and flanks light yellowish olive; thighs yellow, tinged with buff externally; edge of wing, axillars, under wing-coverts, and inner border of quills yellow. In the dry skin the bill is olive-plumbeous, the feet and claws deep plumbeous.

Measurements of type (adult male).—Length of skin, 205 mm.; wing, 101; tail, 98; exposed culmen (chord), 19; tarsus, 25.

ANDROPADUS FRICKI, new species

Endoto Bulbul

Type-specimen.—Adult male, Cat. No. 244778, U. S. Nat. Mus.; collected at the north base of Endoto Mountain, British East Africa, July 20, 1912, by Edgar A. Mearns. (Original number, 23110.)

Characters.—Most closely related to *Andropadus insularis insularis* Hartlaub, but with a stouter bill, darker coloration above, with much more yellow on the under parts, and with a conspicuous yellow eye-ring which is absent in *insularis*.

Description of type (adult male).—Top and sides of head, nape, mantle, rump, upper tail-coverts, and upper wing-coverts light brownish olive; quills brownish olive, edged with ecru-olive; rectrices brownish olive, washed with light yellowish olive on outer webs, and with shafts brown above and nearly white below; sides, upper chest, and throat ecru-olive, becoming paler and more yellowish on the chin; lower chest, abdomen, thighs, and crissum deep colonial buff; axillars, under wing-coverts, and inner border of quills colonial buff. In the dry skin the bill is brownish black, paler at base of mandible; feet and claws olive-black. There are three subterminal notches on each side of the maxilla.

Measurements of type (adult male).—Length of skin, 175 mm.; wing, 87; spurious primary, 35; tail, 81; culmen (chord), 16; depth of bill at anterior border of nostril, 6; width of bill at anterior border of nostril, 4; tarsus, 20.

ANDROPADUS FRICKI KITUNGENSIS, new subspecies

Kitunga Bulbul

Type-specimen.—Adult male, Cat. No. 213539, U. S. Nat. Mus.; collected at Sir Alfred Pease's farm at Kitunga, altitude 7,000 feet, British East Africa, May 8, 1909, by Edgar A. Mearns. (Original number, 15711.)

Characters.—Similar to *Andropadus fricki fricki* Mearns, but larger, with the upper parts buffy olive; sides and chest grayish olive-yellow, and remaining under parts olive-ocher. In life the iris was white, the bill and feet dark plumbeous. The yellow eye-ring is even more conspicuous than in *A. f. fricki*.

Measurements of type (adult male).—Length of skin, 188 mm.; wing, 91; spurious primary, 33; tail, 91; culmen (chord), 16.5; depth of bill at anterior border of nostril, 5.5; width of bill at anterior border of nostril, 3.5; tarsus, 21.

Average measurements of two adult males (type and topotype).—Wing, 90.5; tail, 89; culmen (chord), 16.5; tarsus, 21.5.

STELGIDOCICHLA LATIROSTRIS PALLIDA, new subspecies

Mount Gargues Bulbul

Type-specimen.—Adult male, Cat. No. 217670, U. S. Nat. Mus.; collected on the summit of Mount Gargues, altitude 7,100 feet, British East Africa, August 25, 1911, by Edmund Heller. (Original number, 247.)

Characters.—Most closely related to *Stelgidocichla latirostris eugenia* (Reichenow), from the Victoria Nyanza region of Equatorial Africa, agreeing with it in the size and shape of the bill, but of a much paler coloration, in the latter respect comparable to *Stelgidocichla latirostris efulensis* (Sharpe), from West Africa. It is as pale as *efulensis* but more greenish, and has a shorter, stouter bill.

Description of adult male and female.—Entire top and sides of head deep olive; upper side of neck, mantle, outer wing-coverts, and outer web of inner secondaries citrine-drab; wing-quills deep olive edged with light yellowish olive; upper back citrine-drab, gradually deepening on lower back, rump, upper tail-coverts, and tail to saccardo's umber; rectrices obscurely edged, externally, with yellowish citrine; chin and upper throat citron-yellow; chest, sides, flanks, and thighs light yellowish olive; middle of abdomen olive-buff; edge of wing, axillars, and under wing-coverts marguerite yellow; inner border of quill-feathers very pale olive-buff. In dry specimens the bill is brownish black; tarsi fleshy brown; toes and claws dark, olivaceous brown.

Measurements of type (adult male).—Length of skin, 175 mm.; wing, 87; length of spurious primary, 30; tail, 83; culmen (chord), 14; bill from anterior margin of nostril, 8; width of bill opposite posterior border of nostril, 7.2; tarsus, 21.8.

Average measurements of three adult females.—Wing, 86; tail, 86.67; culmen (chord), 13.67; tarsus, 21.13.

STELGIDOCICHLA LATIROSTRIS SATURATA, new subspecies

Saturated Bulbul

Type-specimen.—Adult male, Cat. No. 215274, U. S. Nat. Mus.; collected on the Honi River, south-west base of Mount Kenia, British East Africa, September 17, 1909, by Edgar A. Mearns. (Original number, 16841.)

Characters.—Most closely related to *Stelgidocichla latirostris eugenia* (Reichenow), from the Victoria Nyanza region, but larger, more intensely colored, and more yellowish olive above and below.

Description of adult male and female.—Entire top and sides of head dark olive; upper side of neck, mantle, outer wing-coverts, and outer web of inner secondaries buffy olive; wing-quills brownish olive edged with ecru-olive; upper back buffy olive, gradually changing on lower back, rump, upper tail-coverts, and tail-feathers to medal bronze; rectrices obscurely edged, externally, with olive-lake; chin and upper throat amber-yellow; chest, sides, flanks, and thighs yellowish olive; middle of abdomen olive-yellow; edge of wing, axillars, and under wing-coverts olive-ocher; inner border of quills yellowish pale smoke-gray. In dry specimens the bill is brownish black; tarsi brownish white; toes and claws dark brown.

Measurements of type (adult male).—Length of skin, 193 mm.; wing, 91; length of spurious primary, 32; tail, 91; culmen (chord), 14.5; bill from anterior border of nostril, 9; width of bill opposite posterior border of nostril, 8; tarsus, 23.

Average measurements of five adult males of Stelgidocichla latirostris saturata.—Wing, 90.6; tail, 87.2; culmen (chord.) 14.5, tarsus, 22.2.

Average measurements of three adult males of Stelgidocichla latirostris eugenia.—Wing, 88; tail, 82.67; culmen (chord), 15.33; tarsus, 20.83.