



XI.—Descriptions of seven new species of birds from the Sandwich Islands

Hon. Walter Rothschild

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cated, with figures of the permanent as well as the larval shell*. The latter resembles the species procured at St. Andrews (Plate VIII. figs. 5 & 6), but differs from it in the size of the serrations on the ridges (fig. 7), those in the Messina specimen being much more minute.

The adult *Lamellariæ* are not uncommon under stones between tide-marks, especially in rock-pools, and it might have been expected that the larval forms would have been sooner procured in the tow-nets. The more systematic use of the special bottom-net in recent years, however, seems to have been much more successful in this respect than either the surface or mid-water nets.

EXPLANATION OF PLATE VIII.

- Fig. 1.* *Chymene ebiensis*, a little larger than natural size and viewed from the side.
Fig. 2. View of the dorsal surface of the cephalic segment. Enlarged under a lens.
Fig. 3. Ventral surface of the same region, showing the eyes and mouth. Similarly enlarged.
Fig. 4. Anal cone and funnel of the same species with the adjoining segments. Enlarged under a lens.
Fig. 5. Atlanta-like larva of *Lamellaria* in lateral view. The fine serrations of the edge are distinct. Magnified from life.
Fig. 6. View of the edge of the shell of the foregoing, so as to exhibit the double angle.
Fig. 7. Portion of the double angle, more highly magnified.

XI.—*Descriptions of Seven new Species of Birds from the Sandwich Islands.* By the Hon. WALTER ROTHSCHILD.

SOME specimens of birds belonging apparently to new genera and species have been forwarded to me by my collector, Mr. Palmer, and are of sufficient interest, I think, to be brought before the notice of naturalists.

Family *Anseridæ*.

Bernicla Munroii, sp. n.

Adult. Head and neck black, excepting a large patch which extends on the upper throat over the lower part of the

* A summary of the pelagic larval forms allied to the above is given in Bronn's 'Klassen u. Ordnungen' (Malacozoa), p. 1005, &c.

sides of the head and ear-coverts; which is pure white, but the black extends below the eye and over the chin; back, scapulars, and wing-coverts dull dark brown, the feathers edged with light buffy brown; rump black; upper tail-coverts white; quills blackish brown, becoming earth-brown on the terminal portion; tail black. Underparts greyish white, indistinctly barred with pale buffy ash; lower abdomen and under tail-coverts white. Bill and legs black; iris grey.

Total length about 21 inches, culmen 1·3, wing 13·1, tail 4·4, tarsus 3·1.

Hab. Kauai, Sandwich group.

Family Turdidæ.

Tatare familiaris, sp. n.

Adult male. Upper parts greyish brown, rather warmer in tinge on the rump, the sides of the head rather paler; wings and tail dark brown, the feathers externally margined with buffy brown; tail rounded; wings somewhat rounded, the first primary slightly shorter than the sixth. Underparts, together with the chin and throat, buffy white. Bill brown; legs fleshy brown; tarsus brown.

Total length about 5·75 inches, culmen 0·65, wing 2·55, tail 2·4, tarsus 0·92.

Adult female. Closely resembles the male.

Hab. Laysan Island, Sandwich group.

Family Drepanidæ.

Himatione Fraithii, sp. n.

Adult male. Upper parts vermilion-crimson, rather richer and more crimson in tinge on the head. Underparts similarly coloured to the upper parts down to the lower abdomen, which is dull ashy brown, fading into whity brown on the under tail-coverts; remiges and rectrices dull blackish brown, the external remiges narrowly margined with reddish white, the secondaries and wing-coverts margined with vermilion; rectrices also with narrow paler margins. Bill and feet black; iris reddish yellow.

Total length about 6 inches, culmen 0·55, wing 2·65, tail 2·4, tarsus 0·92.

Adult female. Closely resembles the male, differing only in the red being somewhat paler in tinge.

Young. General colour dull brown on the upper parts and

light ashy brown on the underparts ; many of the feathers margined with rich buff, giving a slightly mottled appearance ; wings and tail dark brown, the primaries narrowly and the secondaries broadly margined with rich brownish buff ; chin and upper throat orange-buff ; lower abdomen and under tail-coverts white tinged with buff.

Hab. Laysan Island, Sandwich group.

The present species somewhat resembles *Himatione sanguinea*, but differs from that species in being more vermilion and not blood-red in tinge of colour, and in having the lower abdomen and under tail-coverts pale ashy brown or brownish white, and not white ; besides, the bill is shorter and rather stouter in the present species than in *H. sanguinea*.

Family Fringillidæ.

Telespyza flavissima, sp. n.

Adult male. Head, neck, and underparts down to lower abdomen bright yellow, the crown rather darker ; upper parts generally yellow, slightly sullied with ashy brown, the rump and upper tail-coverts dull ashy brown, washed with yellow ; quills blackish brown, the primaries externally narrowly and the secondaries broadly margined with bright apple-yellow ; tail blackish brown, the feathers margined with apple-yellow ; lower abdomen and under tail-coverts dirty white, slightly washed with yellow. Bill blue ; legs brown ; iris greyish brown.

Total length about 6·5 inches, culmen 0·7, wing 3·3, tail 2·6, tarsus 2·05.

Adult female similar to the male.

Hab. Laysan Island, Sandwich group.

The present species somewhat resembles *Telespyza cantans*, Scott Wilson ('Ibis,' 1890, p. 341, pl. ix.), but has the head and the underparts rich yellow, the head lacking the brown markings, and the back is much yellower and lacks the dark brown markings of *Telespyza cantans*, which latter also comes from Laysan Island, and not from Midway Island, as stated in the 'Ibis' (*l. c.*).

RHODACANTHIS, gen. nov.

Bill stout and strong, broad at the base, the upper mandible sharp-pointed and curved as in *Psittirostra*, but not so

long; legs robust; first primary about equal to the fifth, the second and third equal and longest, the fourth a trifle shorter; tail slightly forked.

Obs. This genus is intermediate between *Chloridops* and *Psittirostra*, having the bill stout and large, as in the former, but longer and sharp-pointed, therein resembling the latter.

Rhodacanthis Palmeri, sp. n.

Adult male. Head and throat rich reddish orange; back and upper parts generally dull greenish olivaceous, brightening to dull dark orange on the lower rump and upper tail-coverts; wings and tail dark blackish brown, the feathers externally margined with deep yellow; lower throat and underparts dull orange-yellow, becoming much paler on the lower abdomen and under tail-coverts. Bill blue-brown; legs blackish grey; iris red.

Total length about 8·75 inches, culmen 0·82, wing 4·15, tail 2·95, tarsus 1·1.

Adult female. Crown, nape, sides of the head and upper parts generally olive-green, the lower rump and upper tail-coverts parrot-green; forehead brighter green than the rest of the head; quills and tail-feathers margined with dull parrot-green. Underparts dull light green, fading into dull white washed with green on the lower abdomen and under tail-coverts.

Young male. Resembles the female, but the fore part of the crown is orange-yellow and the throat is of a richer orange-green tinge.

Hab. Kona, Hawai, Sandwich Islands.

Rhodacanthis flaviceps, sp. n.

Adult male. Head, neck, and underparts generally apple-yellow, brighter and richer on the head and neck and greener on the underparts. Upper parts ashy green, becoming bright green on the lower back, rump, and upper tail-coverts; wings and tail dull blackish brown, the feathers externally margined with green. Bill blue-brown; legs grey; iris brown.

Total length about 7·5 inches, culmen 0·72, wing 3·8, tail 2·5, tarsus 1·0.

Adult female. Differs from the male in being much greener and duller in colour, only the forehead being yellow; the crown similarly coloured to the back. Underparts dull yellowish green.

Young male closely resembles the female, but has the underparts rather paler.

Hab. Kona, Hawaii, Sandwich group.

Fam. **Meliphagidæ.**

VIRIDONIA, gen. nov.

Bill slightly curved, stout at the base, attenuating towards the tip, which is sharply pointed; wing rather broad, the first quill slightly shorter than the sixth; no bastard primary; tail rather short, nearly even at the tip; legs and feet stout; culmen about equal in length to the tarsus.

Viridonia sagittirostris, sp. n.

Adult male. Upper parts bright olive-green, rather paler and brighter on the sides of the head and upper tail-coverts. Underparts bright yellowish green; wings blackish brown, the primaries narrowly and the secondaries more broadly margined with yellowish green; tail blackish brown, with yellowish-green margins; under surface of the wings dark ashy, the quills margined with dull white on the basal half; margin of the wing tinged with yellow. Bill black; legs black; iris brownish grey.

Total length about 6·5 inches, culmen 0·9, wing 3·3, tail 2·1, tarsus 0·91.

Adult female. Resembles the male, but is rather duller in tinge of colour both on the upper and underparts.

Hab. Mauna Kea, Hawaii, Sandwich group.

PROCEEDINGS OF LEARNED SOCIETIES.

GEOLOGICAL SOCIETY.

January 27, 1892.—Dr. W. T. Blanford, F.R.S.,
Vice-President, in the Chair.

The following communication was read:—

“North Italian Bryozoa.—Part II. Cyclostomata.” By Arthur Wm. Waters, Esq., F.G.S.

The Chilostomata from the same localities were dealt with in volume xlvii. of the ‘Quarterly Journal.’ In the present paper a number of Cyclostomata are described, amongst the most interesting