

and slightly convex at the base; aperture diagonal, rhomboidal-ovate; peristome white, right margin expanded, basal margin reflexed; columella subvertical, and triangularly expanded over the perforation.

Diam. maj. 9, min. 8, alt. 11 lines.

Hab. Bougainville Island, Solomon group (*Brazier*).

A very pretty species, distinguishable from the black variety of *H. meta*, Pfr., by its invariably smaller size, by the presence of the straw-coloured band below the keel instead of next the suture, and by the last whorl being more distinctly keeled and less convex beneath.

HELIX (RHYTIDA) BOYDI, n. sp. (Plate XLVIII. fig. 8.)

Shell widely and perspectively umbilicated, discoidal, moderately solid, shining, closely plicately striated, olive-brown, ornamented with numerous dark brown, irregular, more or less interrupted stripes; spire almost flat; whorls 6, slightly convex, regularly increasing, the last rounded and a little descending; aperture diagonal, roundly lunate; peristome simple, not expanded, margins approximating.

Diam. maj. 14, min. 11, alt. 5 lines.

Hab. Recherche Island, San Christoval, Solomon group.

I dedicate this fine shell to the memory of the late Benjamin Boyd, Esq., who visited the Solomon Islands in his yacht 'The Wanderer,' and was murdered by the natives whilst pigeon-shooting at Guadalcanar.

HELIX (TROCHOMORPHA) FESSONIA, n. sp. (Plate XLVIII. fig. 7.)

Shell narrowly umbilicated, trochiform, thin, closely irregularly plicately striated, light brown, ornamented here and there with paler diaphanous irregularly interrupted stripes; spire rather convexly conical, apex somewhat obtuse, sutures with a narrow distinct pale thread-like margin; whorls 6, a little convex, the last not descending, with an acute white keel, flattened below, pale horn-colour, with a narrow rufous band next the keel; aperture diagonal, truncately oval; peristome not continuous, the right margin arcuate, simple, the columellar margin a little thickened and slightly reflexed, not covering the umbilicus.

Diam. maj. $4\frac{1}{2}$, min. $4\frac{1}{4}$, alt. 3 lines.

Hab. Kantavu, Fiji Islands, on trees (*Brazier*).

5. On the Breeding of Birds in the Gardens of the Zoological Society of London during the past Twenty Years. By P. L. SCLATER, M.A., Ph.D., F.R.S., Secretary to the Society.

On the 10th of December last I had the honour of submitting to the Meeting a list of the species of Mammals that had bred in the

Society's Gardens during the previous twenty years*. To this I now beg leave to add a list of the birds that have produced living young in the Society's Gardens during the same period, drawn up in a corresponding manner.

The first Table contains the names of the species of this class that have bred in the Gardens from the 1st of January 1848 to the 31st of December 1868, arranged according to the last edition of the List of Vertebrates, and the number of instances in which each species has produced living young during this period.

The second Table gives the total number of species that have bred in each order of Birds, and the corresponding number of species of the same order enumerated in the List of Vertebrates. A comparison of these two columns will give some approximate idea of the comparative frequency of breeding in captivity in the different orders of this class of animals.

TABLE I.

		No. of instances of breeding in each species during the years 1848-68.	No. of ditto in each order.
I. PASSERES.			
1. Song-thrush	<i>Turdus musicus</i>	1	11
2. Blackbird	— <i>merula</i>	1	
3. Pied Wagtail.....	<i>Motacilla yarrelli</i>	3	
4. Spot-sided Finch	<i>Amadina lathamii</i>	1	
5. Rufous-necked Weaverbird	<i>Hyphantornis textor</i>	3	
6. Black-crested Cardinal.....	<i>Gubernatrix cristatella</i>	1	
7. Cardinal Grosbeak	<i>Cardinalis virginiana</i>	1	
III. PREHENSORES.			
1. Undulated Grass-parrakeet	<i>Melopsittacus undulatus</i>	3	28
2. Turquoise Parrakeet	<i>Euphema pulchella</i>	13	
3. Elegant Parrakeet	— <i>elegans</i>	5	
4. Crested Ground-parrakeet	<i>Calopsitta novæ-hollandiæ</i> ...	6	
5. Blood-rumped Parrakeet	<i>Psephotus hæmatonotus</i>	1	
IV. ACCIPITRES.			
1. Black Kite	<i>Milvus niger</i>	3	4
2. Great Eagle-owl	<i>Bubo maximus</i>	1	
V. COLUMBÆ.			
1. Naked-eyed Pigeon	<i>Columba gymnophthalma</i>	6	
2. White-crowned Pigeon.....	— <i>leucocephala</i>	4	
3. Triangular-spotted Pigeon	— <i>guinea</i>	2	
4. Cambayan Turtledove	<i>Turtur senegalensis</i>	13	
5. Vinaceous Turtledove	— <i>vinaceus</i>	28	
6. Barbary Turtledove	— <i>risorius</i>	2	
7. Dwarf Turtledove.....	— <i>humilis</i>	2	
8. Zenaida Dove.....	<i>Zenaida amabilis</i>	17	
9. Barred Dove	<i>Geopelia striata</i>	2	

* See P. Z. S. 1868, p. 623.

		No. of instances of breeding in each species during the years 1848-68.	No. of ditto in each order.
10. Red Ground-dove	<i>Geotrygon montana</i>	5	143
11. Mountain-witch Ground-dove...	— <i>sylvatica</i>	1	
12. Crested Pigeon	<i>Ocyphaps lophotes</i>	23	
13. Bronze-wing Pigeon	<i>Phaps chalcoptera</i>	17	
14. Harlequin Bronze-wing	— <i>histrionica</i>	1	
15. Wonga-wonga Pigeon	<i>Leucosarcia picata</i>	2	
16. Bartlett's Pigeon	<i>Phlogœnas crinigera</i>	6	
17. Nicobar Pigeon	<i>Calœnas nicobarica</i>	5	
18. Crowned Pigeon	<i>Goura coronata</i>	5	
19. Victoria Crowned Pigeon.....	— <i>victoriæ</i>	2	
VI. GALLINÆ.			
1. Pintailed Sand-grouse	<i>Pterocles alchata</i>	1	
2. Capercaillie	<i>Tetrao urogallus</i>	6	
3. Cape Francolin	<i>Francolinus capensis</i>	4	
4. Red-legged Partridge	<i>Caccabis rufa</i>	1	
5. Australian Quail	<i>Synœcus australis</i>	1	
6. Californian Colin	<i>Callipepla californica</i>	10	
7. Impeyan Pheasant	<i>Lophophorus impeyanus</i>	33	
8. Pallas's Eared Pheasant	<i>Crossoptilon auritum</i>	2	
9. Ring-necked Pheasant	<i>Phasianus torquatus</i>	20	
10. Japanese Pheasant	— <i>versicolor</i>	10	
11. Sœmmerring's Pheasant.....	— <i>sœmmerringi</i>	3	
12. Reeves's Pheasant	— <i>reevesii</i>	5	
13. Cheer Pheasant	— <i>wallichii</i>	18	
14. Gold Pheasant	<i>Thaumalea picta</i>	2	
15. Siamese Pheasant	<i>Euplocamus prælatus</i>	1	
16. Swinhoe's Pheasant	— <i>swinhoii</i>	4	
17. Silver Pheasant	— <i>nycthemerus</i>	7	
18. Lineated Pheasant.....	— <i>lineatus</i>	7	
19. Purple Kaleege	— <i>horsfieldi</i>	19	
20. Black-backed Kaleege	— <i>melanotus</i>	19	
21. White-crested Kaleege	— <i>albicristatus</i>	13	
22. Sonnerat's Jungle-fowl	<i>Gallus sonneratii</i>	9	230
23. Bankiva Jungle-fowl.....	— <i>bankiva</i>	2	
24. Horned Tragopan	<i>Cerionis satyra</i>	7	
25. Black-winged Peafowl	<i>Pavo nigripennis</i>	1	
26. Javan Peafowl	— <i>muticus</i>	3	
27. Peacock Pheasant	<i>Polyplectron chinquis</i>	2	
28. Ocellated Turkey	<i>Meleagris ocellata</i>	1	
29. Brush Turkey	<i>Talegalla lathamii</i>	10	
30. Variegated Hemipode	<i>Turnix varius</i>	1	
31. Rufous Tinamou	<i>Rhynchotus rufescens</i>	8	
VII. STRUTHIONES.			
1. Common Rhea	<i>Rhea americana</i>	4	11
2. Cassowary	<i>Casuarus galeatus</i>	2	
3. Bennett's Cassowary	— <i>bennettii</i>	3	
4. Emu	<i>Dromæus novæ-hollandiæ</i>	2	
VIII. GRALLÆ.			
1. Mantchurian Crane	<i>Grus montignesia</i>	3	
2. Common Crane.....	— <i>cinerea</i>	1	
3. Sun-bittern	<i>Eurypyga helias</i>	6	
4. Crested Coot	<i>Fulica cristata</i>	1	

		No. of instances of breeding in each species during the years 1848-68.	No. of ditto in each order.
5. Scarlet Ibis	<i>Ibis rubra</i>	1	13
6. White Ibis	— <i>alba</i>	1	
X. ANSERES.			
1. Cereopsis Goose	<i>Cereopsis novæ-hollandiæ</i>	8	231
2. Wild Goose	<i>Anser ferus</i>	4	
3. Chinese Goose	— <i>cygnoides</i>	1	
4. Barnacle Goose	<i>Bernicla leucopsis</i>	1	
5. Upland Goose	<i>Chloëphaga magellanica</i>	4	
6. Ashy-headed Goose	— <i>podiocephala</i>	13	
7. Ruddy-headed Goose	— <i>rubidiceps</i>	8	
8. Sandwich-Island Goose	— <i>sandvicensis</i>	11	
9. Egyptian Goose	<i>Chenalopex ægyptiaca</i>	2	
10. Black-necked Swan	<i>Cygnus nigricollis</i>	8	
11. Black Swan	— <i>atratus</i>	14	
12. Common Sheldrake	<i>Tadorna vulpanser</i>	1	
13. Ruddy Sheldrake	— <i>rutila</i>	7	
14. White-faced Sheldrake	— <i>cana</i>	1	
15. Variegated Sheldrake	— <i>variegata</i>	3	
16. Summer Duck	<i>Aix sponsa</i>	20	
17. Mandarin Duck	— <i>galericulata</i>	13	
18. Bahama Duck	<i>Pæcilonetta bahamensis</i>	19	
19. Red-billed Duck	— <i>erythrorhyncha</i>	4	
20. Dusky Duck	<i>Anas obscura</i>	19	
21. Yellow-billed Duck	— <i>xanthorhyncha</i>	4	
22. Australian Wild Duck	— <i>superciliosa</i>	1	
23. Gadwall	— <i>strepera</i>	14	
24. Common Teal	<i>Querquedula crecca</i>	7	
25. Garganey	— <i>circia</i>	2	
26. Shoveller	<i>Spatula clypeata</i>	7	
27. Tufted Duck	<i>Fuligula cristata</i>	21	
28. Castaneous Duck	<i>Nyroca leucophthalma</i>	6	
29. Eider Duck	<i>Somateria mollissima</i>	2	
30. Herring-gull	<i>Larus argentatus</i>	6	

TABLE II.

	No. of species in list.	No. of breeding species.	Proportion of breeding species to total number.
I. Passeres	178	7	1 in 25·4
II. Picariæ	25		
III. Prehensores	110	5	1 in 22·0
IV. Accipitres	94	2	1 in 47·0
V. Columbæ	51	19	1 in 2·6
VI. Gallinæ	83	31	1 in 2·7
VII. Struthiones	7	4	1 in 1·7
VIII. Grallæ	57	6	1 in 9·0
IX. Herodiones	35		
X. Anseres	80	30	1 in 2·6
	720	108	1 in 6·6



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