

CATALOGUE OF BIRDS IN THE INDIAN MUSEUM.

III. CAPITONIDAE (BARBETS).

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INTRODUCTION.

Parts I and II of the *Catalogue* by Roonwal (1941, 1947) dealt with the collections of Columbæ and Pterocletes of the Indian Museum. The work had to be discontinued by him, due to his appointment in 1945, as Mammalogist to the G. H. Q. (I), Indian Field Typhus Research Team. In 1949 he was appointed as the Forest Entomologist, Indian Forest Research Institute, Dehra Dun. The author who is working in the Bird Section of the Indian Museum has undertaken to continue the cataloguing work. The present contribution dealing with the barbets forms the third part of the series.

During World War II, the Zoological Survey of India, which is the custodian of the zoological collections of the Indian Museum including those of the Asiatic Society, was shifted, with all its collections, in 1942 from Calcutta to Banaras, and was housed there in a building on the bank of the Varuna river. In September 1943 an unforeseen and unprecedented flood of the Varuna river played havoc with the collections : a part of the material was submerged under water for three days before it could be salvaged. Many skins were washed away, a number of them had to be discarded being so thoroughly drenched, and many have lost all their history, their labels being washed away, so that they do not serve any practical purpose. Furthermore, many old skins could not withstand the rigors of packing and repacking during transfer from and to Calcutta. It is pitiable indeed that among the lost material a good number of specimens were from now inaccessible places, like Yunnan, Shan States (Burma), and Yarkand. The loss to the collections as calculated in the family *Capitonidae* alone was 69 per cent. However, since the catastrophe the staff of the Zoological Survey of India has been making every possible effort to restore the damaged collections by repairing whatever was possible, but mostly by adding new material. The collections went on accumulating for more than a hundred years when the disaster came ; this fact alone may give the reader an idea of the magnitude of the project of replacement before the Survey.

At the present moment there are 174 specimens of barbets in the Indian Museum collections, on which this catalogue is prepared. This number includes recently collected specimens, old undamaged skins and those salvaged from flood damaged lot.

As far as possible information on the following points for each specimen has been given :

(i) Zoological Survey of India Registered number ; (ii) number given in Blyth's (1852) catalogue, (iii) Sex ; (iv) Locality ; (v) Date of collection ; (vi) Collector or Donor, and (vii) Measurements. Miscellaneous information has been given under 'Remarks'. Unless otherwise stated all specimens are adults.

As for the synonymy, I have given under each form the original reference and any subsequent modifications made after the publication of Peters' (1948) check list. I have given my remarks on the taxonomy when called for.

In the *Fauna of British India*, Baker (1927) accepted six genera of barbets within the Indian limits (India, Nepal, Pakistan, Burma and Ceylon). Ripley (1945), followed by Peters (1948) and Biswas (1953), recognised only two genera within the above defined area. The generic names as used by Baker (1927), Ripley (1945), Peters (1948) and Biswas (1953) are as follows :—

Baker (1927).	Ripley (1945), Peters (1948) and Biswas (1953).
1. <i>Megalaima</i> G. R. Gray	} <i>Megalaima</i> G. R. Gray
2. <i>Thereiceryx</i> Blanford	
3. <i>Chotorhea</i> Bonaparte	
4. <i>Cyanops</i> Bonaparte	
5. <i>Xantholaema</i> Bonaparte	
6. <i>Calorhamphus</i> Lesson	

For the Indian species and subspecies I have followed Peters (1948) as far as possible. In some cases, however, I have differed from him, and such instances have been discussed in appropriate places.

The following species and subspecies are listed in the present catalogue :—

1. *Megalaima virens marshallorum* Swinhoe
2. *Megalaima virens magnifica* Baker
3. *Megalaima virens clamator* Mayr
4. *Megalaima virens virene* (Boddaert)
5. *Megalaima lineata hodgsoni* Bonaparte
6. *Megalaima lineata kutru* Mukherjee
7. *Megalaima zeylanica zeylanica* (Gmelin)
8. *Megalaima zeylanica inornata* Walden
9. *Megalaima zeylanica caniceps* (Franklin)
10. *Megalaima viridis* (Boddaert)
11. *Megalaima mystacophanos mystacophanos* (Temminck)
12. *Megalaima flavifrons* (Cuvier)
13. *Megalaima franklini franklini* (Blyth)
14. *Megalaima asiatica asiatica* (Latham)
15. *Megalaima asiatica davisoni* Hume
16. *Megalaima henrici* (Temminck)
17. *Megalaima pulcherrima* Sharpe
18. *Megalaima australis cyanotis* (Blyth)
19. *Megalaima australis duvauceli* (Lesson)
20. *Megalaima haemacephala indica* (Latham)
21. *Calorhamphus fuliginosus hayi* (J. E. Gray)
22. *Calorhamphus fuliginosus fuliginosus* (Temminck)
23. *Gymnobucco peli* Hartlaub
24. *Pogoniulus pusillus uropygialis* (Heuglin)
25. *Tricholaema melanocephalum melanocephalum* (Cretzschmar)
26. *Lybius undatus thiogaster* Neumann

The following species and subspecies although occur within the Indian limits are not represented in our collections :—

1. *Megalaima incognita* Hume
2. *Megalaima australis stuarti* (Robinson & Kloss)
3. *Megalaima franklini ramsayi* (Walden)
4. *Megalaima rubricapilla* (Gmelin)

I am indebted to the authorities of the Bombay Natural History Society and the Bengal Natural History Society, for the loan of some specimens for my study. I am grateful to Dr. S. L. Hora, Director, and Dr. B. Biswas, Assistant Superintendent, Zoological Survey of India, for critically reading through the manuscript and suggesting improvements.

Order PICIFORMES

Suborder GALBULAE

Superfamily CAPITONOIDEA

Family CAPITONIDAE

Genus *Megalaima* G. R. Gray

Megalaima virens (Boddaert)

The species ranges throughout the Himalayas from West to East and through Upper Burma extends to Eastern and Southern China, South to Tenasserim, Northern Siam and Northern Annam.

In the Indian Museum collections all the four subspecies admitted by Peters (1948) are represented.

Megalaima virens marshallorum Swinhoe

(The great Western Himalayan barbet)

1870. *Megalaima marshallorum* Swinhoe *Ann. Mag. nat. Hist.*, (4), 6 : 348 - Simla, Western Himalayas.

Megalaima virens marshallorum is represented by the following skins :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
7944	♂	Kashmir (ca. 4500')	5 May 1876	J. Biddulph	153	105	47	..
14453	♂	Muree, Rawalpindi Dist., West Punjab.	3 Feb. 1876	J. Biddulph	143+	100+	45	Wing and tail slightly worn.
14454	♀	Muree, Rawalpindi Dist., West Punjab.	3 Feb. 1876	J. Biddulph	155	104	47	..
20230	..	Muree, Rawalpindi Dist., West Punjab.	24 June 1873	F. Stoliczka	145+	102	43	Wing slightly worn.
876	..	Simla, *PEPSU	1873	F. Stoliczka	148	100	41	..
14451	..	Simla, PEPSU	1876	J. Biddulph	143	105	43.5	Wing slightly worn.
14452	..	Simla, PEPSU	1876	J. Biddulph	149	101	44	..
25965	♂	Nainital (ca. 5000'), Uttar Pradesh.	6 Nov. 1928	S. C. Law	152	105	45	..

*Patiala and East Punjab States Union.

Systematic notes.—The single specimen from Kashmir has interesting abnormalities in its plumage. It has some sulphur yellow spots on lores and a band of sulphur and dirty cream yellow feathers on the upper and central back.

The birds of Garhwal and Kumaon cannot be separated from *marshallorum* and are therefore, included here.

Range.—North-Western Himalayas from Kashmir to Kumaon between 3,000 and 8,000 feet.

Megalaima virens magnifica Stuart Baker

(The great Eastern Himalayan barbet)

1926. *Megalaima virens magnifica* Stuart Baker, *Bull. Brit. orn. Cl.*, **47**: 43. Machi, Manipur.

1945. *Megalaima virens mayri* Ripley, *Proc. Biol. Soc. Wash.*, **61**: 100.—Mishmi Hills, N. E. Assam.

Megalaima virens magnifica is represented by the following skins:—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
15236	♂	Nepal valley	8 Dec. 1877	J. Scully	..	..	..	Juvenal.
27406	♂	Godavari, Nepal valley	11 May 1947	B. Biswas	140	95	43.5	♂ ..
27407	♂	Godavari, Nepal valley	13 May 1947	B. Biswas	142	99	42	..
27408	♂	Godavari, Nepal valley	13 May 1947	B. Biswas	141+	94.5	44	Wing slightly worn.
27409	♂	Godavari, Nepal valley	13 May 1947	B. Biswas	141+	105	46	Wing slightly worn.
15237	♀	Nepal valley	9 Nov. 1877	J. Scully	137	90	44	..
27410	♀	Godavari, Nepal valley	15 May 1947	B. Biswas	138	97	46	Wing slightly worn.
4891	..	Kathmandu, Nepal	..	Mus. Collector	130+	..	41	Wing slightly worn and tail worn.
871	♂	Darjeeling, North Bengal	..	J. Anderson	142	90	46	..
18278	♂	Darjeeling, North Bengal	..	G. Mason	142	92	48	..
872	♀	Darjeeling, North Bengal	..	J. Anderson	137+	98	42	Wing slightly worn.
18279	♀	Darjeeling, North Bengal	..	G. Mason	140	91	44	..
869	..	Darjeeling, North Bengal	..	J. Anderson	140	92	40	..
870	..	Darjeeling, North Bengal	..	J. Anderson	..	..	..	Subadult.
874	..	Darjeeling, North Bengal	..	J. Anderson	142	90	43	Body feathers in moult.
14455	..	Darjeeling, North Bengal	3 Feb. 1876	Col. Mainwair- ing.	139	91	44	..
27465	♂	Kyozing-Temi Road (ca. 5800') West Sikkim.	7 Jan. 1953	B. Biswas	140	98.5	45	..
27466	♂	Temi (ca. 5000'), West Sikkim.	9 Jan. 1953	B. Biswas	144	100	44	..
27464	♀	Dentam, West Sikkim	1 Jan. 1953	B. Biswas	140	87	43.5	Tail moulting.
27467	..	Dikchu-Gangtok Road, (ca. 5000'), Sikkim.	..	B. Biswas	148.5	102	46	..
14807	..	Garó Hills, Assam	..	O. L. Fraser	147	97.5	49	..
27411	♀	Barapani (ca. 3300'), Khasi Hills, Assam.	22 May 1949	H. L. Hiteshi	146	99	45	..
22939	♀	North Cachar Hills, Assam.	28 May 1898	E. C. S. Baker	138+	92+	48.5	Wing and tail some worn.
27413	♂	Chongli-emseu, Hills, Assam.	4 Mar. 1935	Z. S. I. Party	142	102	47	..
27412	♀	Chongli-emseu, Hills, Assam.	4 Mar. 1935	Z. S. I. Party	146	97	48	..
12969	..	Manipur State	Jan. 1882	R. D. Oldham	140	94	44	..
25276	♀	Rotung (ca. 1400'), Abor Hill North-East, Assam.	2 Jan. 1912	S. W. Kemp	144	94	44	..

Systematic notes.—Baker (1927) placed the birds of Nepal and Sikkim with *marshallorum* and stated that they are intermediate between *marshallorum* and *magnifica*, but are nearer the former. The birds of central Nepal, Darjeeling and Sikkim, when compared with topotypical *marshallorum*, are found to be smaller and deeply coloured, quite distinct from the Simla population and approximate closer to the Eastern Himalayan race *magnifica*. I have, therefore, listed them with *magnifica*. The race *M. virens mayri* Ripley from Mishmi Hills, N. E. Assam, is differentiated from *M. v. magnifica* in being darker and larger. The specimens of *magnifica* from Sikkim and Abor Hills are darker compared with the topotypical specimen of *magnifica*, all the specimens present in our collection being in fresh plumage and were collected in January. Some of the specimens from Khasi, Garo, and Naga Hills, are more or less of the same size or slightly smaller than *mayri*, (*vide* above Table), and a specimen from Sikkim (No. 27467), is even larger. I am unable to differentiate *mayri* from *magnifica*.

Range.—The Himalayas from Central Nepal to Eastern Assam and the hills of North Burma.

Megalaima virens clamator Mayr

(The great Burmese barbet)

1941. *Megalaima virens clamator* Mayr, *Ibis*, (14) 5: 489. — Shweli-Salween divide, Upper Burma.

Megalaima virens clamator is represented by the following skins :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
23290	♂	Loisampa (ca. 5500'), = Loi-SanPa, Möng Köng, Southern Shan States, Burma.	30 Dec. 1899	C o l. C. T. Bingham	133	94	48	..

Remarks.—In this specimen the scapulars are deep maroon. In size it is smaller than the type of *clamator*.

Range.—Upper Burma in the Hpimaw Hills and the Shweli-Salween divide (Peters).

Megalaima virens virens (Boddaert)

(The great Chinese barbet)

1873. *Bucco virens* Boddaert, *Tabl. Pl. enlum.* 53, Based on *Pl. enlum.*, 871. — China.

Megalaima virens virens is represented by the following skins :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
21218	..	Foochow, Fukien Dist., South-East, China.	Dec. 1889	C. B. Rickett	147	..	43	Tail damaged.
21219	..	Foochow, Fukien Dist., South-East, China.	May 1891	C. B. Rickett	138	100	41	..

Remarks.—The white streaks on the back are absent in the specimen number 21218.

Range.—Southern and South-Eastern China, South to Tenasserim, Northern Siam, Laos and Northern Annam.

Megalaima lineata Blyth

The species is distributed in the lower Himalayas as far West as Suttlej and Eastward through the Northern and Southern Assam and Burma to Yunnan, Siam, Cambodia and Cochin-China, South to Malay Peninsula, Java, Bali; Westward to Orissa in the Indian Peninsula.

Out of the three recognizable subspecies, two occur within the Indian limits. The Indian Museum collections are represented by the following two subspecies.

Megalaima lineata hodgsoni Bonaparte

(The Assam lineated barbet)

1850. *Megalaima hodgsoni* (sic) Bonaparte, *Consp. Gen. Av.*, 1: 144.—Nepal.

1950. *Megalaima zeylanica rana* Ripley, *Proc. Biol. Soc. Wash.*, 63: 101.—Bajora, W. Nepal.

Megalaima lineata hodgsoni is represented in the collections by the following skins :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
27414	♂	Hardwar, D e h r a Dun Dist., W. Himalayas.	22 May 1947	H. L. Hiteshi	135	77	35	..
26437	♀	Gish, Jalpaiguri D i s t., N. Bengal.	21 Nov. 1938	Z. S. I. party	131	85.5	35	Bengal Duar Coll. 1938.
7716	♀	Dafra, Assam	24 Oct. 1876	Godwin Austin	126	77	35	..
26905	♂	Tangla, Darrang Dist., Assam.	14 Nov. 1939	M. L. Roonwal	128	79	34	..
26906	♀	Lokra, Balipara Frontier Tract, Assam.	14 Nov. 1939	M. L. Roonwal	127	75	34	..
27433	♂	Palasbari, Kamrup Dist., Assam.	16 May 1950	B. Biswas	136	83	34	..
27434	♂	Barnihat, Khasi H i l l s, Assam.	23 May 1949	R. V. Sherard	134	81	34	..
27435	♀	Nangpoh, Khasi Hills, Assam.	11 Feb. 1940	Mrs. A. E. Ford	136	87	36	..
24601	♀	South Sylhet, Luskerpore valley, Assam.	1903	C. B. Antram	128.5	77	33.5	Purchased.
24602	♀	South Sylhet, Luskerpore valley, Assam.	1903	C. B. Antram	129	74	34	Purchased.
24603	♀	South Sylhet, Luskerpore valley, Assam.	1903	C. B. Antram	135	85	35	Purchased.
20552	♀	K u t t a, N. C a c h a r, Assam.	6 June 1892	E. C. S. Baker	134	81	35	..
24124	..	Helblintaung, between Chin and Victoria Hills, Upper Burma.	5 Dec. 1901	Lieut. Wood	135	86	35	..
24125	..	Helblintaung, between Chin and Victoria Hills, Upper Burma.	4 Dec. 1901	Lieut. Wood	135	84	85	..

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
5899	..	Arakan, W. Burma	..	Museum Collector.	130	77	32.5	..
892	..	South of Irrawaddy, Burma.	Mar. 1873	Museum Collector.	129	87	34	..
893	..	South of Irrawaddy, Burma.	Mar. 1873	Museum Collector.	133	83	35	..
895	..	South of Irrawaddy, Burma.	Mar. 1873	Museum Collector.	129	87	34	..
896	..	South of Irrawaddy, Burma.	Mar. 1873	Museum Collector.	131	80	31	..
900	..	South of Irrawaddy, Burma.	Mar. 1873	Museum Collector.	134	85	34	..
901	..	South of Irrawaddy, Burma.	Mar. 1873	Museum Collector.	126	80	31	Complete moult.
902	..	South of Irrawaddy, Burma.	Mar. 1873	Museum Collector.	128	80	31	..
903	..	South of Irrawaddy, Burma.	Mar. 1873	Museum Collector.	127	81	32	..
23293	♀	Möng löng, (ca. 2900') Möng Köng, S. Shan States, U. Burma.	2 Jan. 1900	C. T. Bingham	128	80	31	Flood damaged.
23294	♀	Möng löng (ca. 1900') Möng Köng, S. Shan States, U. Burma.	2 Jan. 1900	C. T. Bingham	132	77	32	Flood damaged.

Range.—The Himalayas from Mussorie and Simla to Eastern Assam the Shan States and Annam, South to the Malay Peninsula, Siam, Cambodia and Cochin-China (Peters).

Megalaima lineata kutru Mukherjee

(The Simlipal lineated barbet)

1952. *Megalaima lineata kutru* Mukherjee, *Bull. Brit. orn. Cl.*, 72 : 36.—Chahāla Simlipal Hills, Mayurbhanj, Orissa.

Megalaima lineata kutru is represented in the collections by the following skins :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
27297	♂	Chāhāla, Simlipal Hills, Mayurbhanj Dist., Orissa.	13 Feb. 1951	B. Biswas	125	77	32	Holotype.
27298	♂	Chāhāla, Simlipal Hills, Mayurbhanj Dist., Orissa.	13 Feb. 1951	B. Biswas	122.5	78	33	Paratype.
27294	♀	Chāhāla, Simlipal Hills, Mayurbhanj Dist., Orissa.	8 Feb. 1951	B. Biswas	132	77	31.5	Paratype.
27295	♀	Chāhāla, Simlipal Hills, Mayurbhanj Dist., Orissa.	13 Feb. 1951	B. Biswas	128	79	32	Paratype.
27296	♀	Chāhāla, Simlipal Hills, Mayurbhanj Dist., Orissa.	13 Feb. 1951	B. Biswas	126	78	33.5	Paratype.

Range.—So far known only from the Simlipal Hills, Orissa.

Megalaima zeylanica (Gmelin)

The species is distributed in India and Ceylon. In India it ranges as far as Kangra (E. Punjab) in the North-West and Mt. Abu (Rajasthan in the West, and West Bengal in the East, and occupies the greater part of the Peninsular India.

There are three recognizable subspecies. All of them are represented in the collections of the Indian Museum.

Megalaima zeylanica zeylanica (Gmelin)

(The Ceylon green barbet)

1788. *Bucco Zeylanicus* Gmelin, *Syst. Nat., ed.*, 13, 1(1) : 408.—Ceylon.*Megalaima zeylanica zeylanica* is represented by the following skin :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
19132	..	Ceylon	1891	R. Templeton	115	65	33	Flood damaged skin.

Range.—Travancore and Ceylon (Peters).**Megalaima zeylanica inornata** Walden

(The Bombay green barbet)

1870. *Megalaima inornata* Walden, *Ann. Mag. nat. Hist.*, (4) 5 : 219. —“Malabar, Coorg, and Candeish”, restricted to Malabar by Mukherjee (1952).*Megalaima zeylanica inornata* is represented by the following skins:—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
11921	♂	Munche=Murshi, Ratnagiri Dist., Bombay Presidency.	3 Mar. 1878	J. Armstrong	119+	73	37	Wing slightly worn.
11266	♂	Munche=Murshi, Ratnagiri Dist., Bombay Presidency.	3 Mar. 1878	J. Armstrong	119	75	35	..
11300	♂	Munche=Murshi, Ratnagiri Dist., Bombay Presidency.	2 Mar. 1878	J. Armstrong	120	75	36	Flood damaged.
11352	♂	Munche=Murshi, Ratnagiri Dist., Bombay Presidency.	3 Mar. 1878	J. Armstrong	123	78	36	Flood damaged.
11616	♂	Munche=Murshi, Ratnagiri Dist., Bombay Presidency.	3 Mar. 1878	J. Armstrong	116.5	72	36.5	Flood damaged.
11850	♂	Ratnagiri, Ratnagiri Dist., Bombay Presidency.	1878	J. Armstrong	121	75	40	Flood damaged.
11348	♂	Bhoura=Bavda, Kolhapur Dist., Bombay Presidency.	14 Apr. 1878	J. Armstrong	119	75	37	Flood damaged.
11859	♂	Bhoura=Bavda, Kolhapur Dist., Bombay Presidency.	13 Apr. 1878	J. Armstrong	123	76	37	Flood damaged.
11861	♂	Bhoura=Bavda, Kolhapur Dist., Bombay Presidency.	5 Apr. 1878	J. Armstrong	111	69	36	Flood damaged.
11351	♀	Bhoura=Bavda, Kolhapur Dist., Bombay Presidency.	3 Apr. 1878	J. Armstrong	118	70	38	Flood damaged.
11860	♀	Bhoura=Bavda, Kolhapur Dist., Bombay Presidency.	6 Apr. 1878	J. Armstrong	113	69	37	Flood damaged.

Range.—The distribution of his race in South and East has not been clearly defined so far. Baker (1927) stated that it extends as far as Travancore in the South and the Nilgiris in the East. Peters (1948) gave its range in the South at least to Cannanore, and the Godavari river to the East. I am unable to agree with Peters regarding the distribution of this race in the East. The specimen of Eastern Hyderabad has been noted by Whistler (1935) as intermediate, agreeing close in colour with *T. z. caniceps* but is too small for the race. The distribution may be redefined as follows :—

Throughout the Bombay Presidency along the Sahyadri ranges, and as far as Mt. Abu (Rajasthan) in the North and Malabar in the South. It extends Eastward to the Nilgiris.

***Megalaima zeylanica caniceps* (Franklin)**

(The Northern green barbet).

1831. *Bucco caniceps* Franklin, *Proc. Zool. Soc. Lond.*, (1): 121.—“On the Ganges between Calcutta and Banares, and in the Vindhyan Hills between the later place and Gurrah Mundela on the Nerbudda”.

1934. *Thereiceryx zeylanicus kangrae* Whistler, *J. Bombay Nat. Hist. Soc.*, 37: 516.—Ranital, 2,000 feet, Kangra.

Megalaima zeylanica caniceps is represented by the following skins :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
25964	♀	Faridpur, Bareilly Dist., Uttar Pradesh.	24 Oct. 1928	S. C. Law	125	71	36	..
4893	..	Nepal	..	Museum Collector.	115	75	33	Complete moult.
27415	♂	Banaras Cant., Uttar Pradesh.	9 Sept. 1945	Kartar Singh	123	76	35	..
27416	♂	Banaras Cant., Uttar Pradesh.	8 July 1946	A. N. Fernandez.	118	77	34	..
27417	♂	Banaras Cant., Uttar Pradesh.	16 Feb. 1943	M. N. Dutta	126	80	35.5	..
27418	♂	Dharhara, Monghyr Dist., Bihar.	26 Nov. 1947	A. N. Fernandez.	124	78	32	..
885	..	Manbhum Dist., Bihar	..	Lieut. R. C. Beavan.	125	76	35.5	..
19012	..	Darbhanga, Bihar	..	E. Stewart	122	79	34	..
26228	♀	Ranchi, Bihar	3 Nov. 1931	S. C. Law	120	75	34	..
26248	♀	Ranchi, Bihar	8 Nov. 1931	S. C. Law	116	70	31	Complete moult.
27299	♂	Chahala, Simlipal Hills, Mayurbhanj District, Orissa.	13 Feb. 1951	B. Biswas	121	77	33	..
27452	♀	Sikargung, Rewa Dist., Vindhya Pradesh.	10 Apr. 1947	M. L. Roonwal	121	74	36	..
27419	♂	Pachmarhi, Hoshangabad Dist., Madhya Pradesh.	15 Feb. 1941	M. L. Roonwal	119	72	32	Flood damaged.

Range.—Foothills of the Himalayas from Kangra in the West to Nepal in the East and the Northern Indian plains (except Punjab, Sind and Eastern Bengal). Southward its range extends as far as the Godavari Delta and Eastern and Northern portion of the Hyderabad State.

Megalaima viridis (Boddaert)

(The small green barbet)

1783. *Bucco viridis* Boddaert, *Tabl. Pl. enlum.*, 53.—Mahé, India, ex. Daubenton, pl. 870.

Megalaima viridis is represented by the following skins :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl	B.	
11452	..	Bhoura=Bavda, Kolhapur Dist., Bombay Presidency.	26 Mar. 1878	J. Armstrong	114	62	26.5	Flood damaged.
11862	♂	Bhoura=Bavda, Kolhapur Dist., Bombay Presidency.	7 Apr. 1878	J. Armstrong	115	63	27	Flood damaged.
27453	..	Yercaud (ca. 4500'), Shevaroy Hills, S. India.	2 Feb. 1952	R. V. Sherard	109	65	27	..
27454	♀	Yercaud (ca. 4500'), Shevaroy Hills, S. India.	2 Feb. 1952	R. V. Sherard	110	65.5	28	..
26724	♂	Trivandrum, Travancore State, S. India.	26 June 1942	N. G. Pillai	95	56	25.5	Purchased.
23892	♀	Moonai, Trivandrum Travancore State, S. India.	..	Trivandrum Museum.	103	64+	25.5	Received in exchange, tail some what worn.

Range.—Hill ranges of South-Western India, from Tapti river in the North to Cape Comorin in the South and the Shevaroy Hills and Chitteri ranges in the Eastern Ghats.

Megalaima mystacophanos (Temminck)

The species extends from South Tenasserim South Ward to Malay Peninsula, Sumatra, Borneo and Batu Islands. There are three subspecies as recognised by Peters (1948), of which only the nominate subspecies occurs within the Indian limits.

Megalaima mystacophanos mystacophanos (Temminck)

(The gaudy barbet)

1924. *Bucco mystacophanos* Temminck, *Pl. col., livr.*, 53, pl. 315.—Sumatra.

Megalaima mystacophanos mystacophanos is represented by the following skin :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
27437 (323)	..	Malay Peninsula	1848	Mr. E. Lindstedt and Mr. Firth.	99	52	32	One of the three adults of Blyth (1852).

Range.—South Tenasserim, Southward over the Malay Peninsula and Sumatra (Peters).

Megalaima flavifrons (Cuvier)

(The yellow-fronted barbet)

1817. *Bucco flavifrons* Cuvier, *Régne Anim.*, 1 : 428, note 2.—Ceylon.*Megalaima flavifrons* is represented by the following skin :—

Reg. Sex. No.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
				W.	Tl.	B.	
19126 .. (320)	Ceylon	1848	E. L. Layard	90	62	22.5	One of the three skins of Blyth (1852).

Range.—Ceylon.**Megalaima franklini** (Blyth)

The species is distributed in the hill ranges of the Himalayas from Nepal to Assam, Upper Burma and Yunnan, South to Malay Peninsula, Siam and Annam. Five subspecies of *M. franklini* have been admitted by Peters (1948) of which only two occur within the Indian region. In the Indian Museum collections, it is represented by the nominate subspecies only.

Megalaima franklini franklini (Blyth)

(The golden-throated barbet)

1842. *Bucco franklinii* Blyth, *J. Asiat. Soc. Beng.*, 11 (1) : 167.—Darjeeling.*Megalaima franklini franklini* is represented by the following skins :—

Reg. Sex. No.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
				W.	Tl.	B.	
27460 ..	Godvari, Nepal Valley	13 May 1947	B. Biswas	106	66	27	..
27461 ♀	Thankot, Nepal Valley	31 Mar. 1947	P. N. Mittra	104	63	26	..
26046 ♀	Darjeeling, N. Bengal	31 Mar. 1930	S. C. Law	101	61	26	..
27405 .. (326)	Darjeeling, N. Bengal	1845	Mr. Webb	87.5	43	20	Juvenal, one of the three cotypes listed by E. Blyth (1852).

Range.—Lower hills of the Himalayas as far West as Nepal, Eastwards through Northern and Southern Assam, extends to Northern Burma, Southern Yunnan, Tonkin, Northern Laos and Northern Annam.

Megalaima asiatica (Latham)

The species ranges throughout the lower altitudes of the Himalayas, and the hills and plains of Assam, Bengal, Burma, Shan States and Yunnan ; South to Tenasserim, Siam, Annam and North Borneo. According to Peters (1948), three of the five races recognised by him, occur within the Indian limits. I have, however, grouped these three subspecies into two.

Megalaima asiatica asiatica (Latham)

(The blue-throated barbet)

1790. *Trogon asiaticus* Latham, *Index orn.*, 1: 201.—India=Calcutta, *vide* Stuart Baker.1896. *Cyanops rubescens* Stuart Baker, *Novit. zool.*, 3: 257.—N. Cachar.*Megalaima asiatica asiatica* is represented by the following skins:—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
15249	..	Dehra Dun, Uttar Pradesh.	1870	J. Scully	103+	70	29	G. King coll. Wing slightly worn.
15240	..	Dehra Dun, Uttar Pradesh.	Jan. 1871	J. Scully	110	70	28.5	G. King coll.
15243	♀	Nowakot, Nepal	29 Nov. 1877	J. Scully	100	69	28	G. King coll.
15245	..	Nepal	19 June 1877	J. Scully	107	66	28	Wing and tail moulting.
15247	..	Nepal valley	21 May 1877	J. Scully	100	70	27	..
27438	♀	Kathmandu, Nepal	4 Apr. 1947	P. N. Mitter	101	65.5	27	Tail moulting.
27439	♀	Pasupatinath, Kathmandu, Nepal.	5 Apr. 1947	P. N. Mitter	102	68.5	28	..
27440	♀	Pasupatinath, Kathmandu, Nepal.	11 Apr. 1947	B. Biswas	108	69	27	..
27441	♀	Pasupatinath, Kathmandu, Nepal.	11 Apr. 1947	P. N. Mitter	103	63	29	Tail moulting
27442	♀	Pasupatinath, Kathmandu, Nepal.	28 Apr. 1947	P. N. Mitter	102	65	27	..
27443	♂	Godavari, Nepal Valley, Nepal.	13 May 1947	B. Biswas	105	66	27	..
27444	♂	Hitaura, Doons, Nepal	2 June 1947	B. Biswas	103+	65	29.5	Wing some what worn.
5530	..	Darjeeling Terai, N. Bengal.	..	J. Anderson	102	65	26	..
27445	..	Teesta, Darjeeling Dist., North Bengal.	..	S. C. Law	107	65	25+	Tip of the bill slightly damaged.
15250	..	Sikkim	Jan. 1876	J. Scully	102+	66	28	D. D. Cunningham coll. Wing somewhat worn.
27468	♀	Rangpo, Rangpo valley, Sikkim.	18 Dec. 1952	B. Biswas	108	66.5	28	..
5523	..	Bengal	..	..	105	70	29	..
5529	..	Calcutta	1866	Purchased	102	64	29	..
5535	..	Calcutta	..	J. Anderson	101	..	28	Tail missing.
25617	♂	Chakdah, Nadia Dist., Bengal.	18 Oct. 1926	A. Rahim	108	70	27	..
25674	♂	Chakdah, Nadia Dist., Bengal.	7 Apr. 1927	A. Rahim	107	67	29	..
26907	♂	Lokra, Balipara Frontier Tract, Assam.	11 Nov. 1939	M. L. Roonwal	104	62	28	Tail moulting.
25275	♂	Kobo (ca. 400'), Abor Hills, N. E. Assam.	9 Dec. 1911	S. W. Kemp	107	65	27	British Abor Hill expedition (1911).
25292	♂	Rotung, Abor Hills, N. E. Assam.	13 Mar. 1912	S. W. Kemp	105	66	27	British Abor Hill expedition (1911).
446	♂	Gauhati, Kamrup Dist., Assam.	30 May 1949	H. L. Hiteshi	100	65	27	..

Reg. Sex. No.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
				W.	Tl.	B.	
27447 ♂	Nongpoh, Khasi Hills, Assam.	10 May 1949	R. V. Sherard	102	65	27.5	..
27448 ♂	Kekrima, Naga Hills, Assam.	17 Feb. 1935	Z. S. I. party	103	64	26.5	..
27449 ♀	Kohima, Naga Hills, Assam.	2 Feb. 1935	Z. S. I. party	100	66	26	..
27450 ♀	Khezhbma, Naga Hills, Assam.	26 Jan. 1936	Z. S. I. party	103	64	26.5	..
26977 ♂	Manipur State, Assam	2 Feb. 1936	Naga Hills Survey, Z. S. I. party.	103	67	27	..
23300 ♂	Kalaw, S. Shan States, Upper Burma.	Jan. 1900	C. T. Bingham	104	62	26	..
23301 ♀	Kalaw, S. Shan States, Upper Burma.	22 Jan. 1900	C. T. Bingham	100	60	26	..
23298 ♂	Wetpyne (ca. 3000'), S. Shan States, Upper Burma.	25 Jan. 1900	C. T. Bingham	102	61.5	26	..
8733 ♂	Tsitkan, Kakhien Hills, W. Yunnan, China.	12 Feb. 1875	J. Anderson	102	64	28	..

Systematic notes.—The Western Himalayan populations are larger as compared with those of the Eastern Himalayas. The crimson specks at the base of the lower mandible is universally present.

The ruddy barbet (*Cyanops a. rubescens*) of Baker (1927) from North Cachar, seems to be merely an erythristic form.

Range.—Throughout the lower hills of the Himalayas, Assam, Bengal, Upper Burma and the Northern Shan States.

***Megalaima asiatica davisoni* Hume**

(Davison's blue-throated barbet)

1877. *Megalaima Davisoni* Anonymous=Hume, *Stray Feath.*, 5: 108.—Meetan, Tenasserim.

Megalaima asiatica davisoni is represented by the following skins :—

Reg. Sex. No.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
				W.	Tl.	B.	
8129 ♂	Meetan=Mitan, Amherst Dist., S. Burma.	Jan. 1877	J. Anderson	102	58	28	Tenasserim Expedition.
27436 ♀	Tenasserim, Burma	1877	J. Anderson	101	59	27	Tenasserim Expedition.

Range.—Southern Shan States, Karenni, Tenasserim, Siam, South-Eastern Yunnan, Kwangsi, Tonkin, Northern Laos and Northern Annam (Peters).

***Megalaima henricii* (Temminck)**

The species occurs in Peninsular Siam, Malay States, Sumatra and Borneo. Only two subspecies have been recognized by Peters (1948) of which *M. henricii henricii* is represented in the Indian Museum collections.

Megalaima henricii henricii (Temminck)

(Henrici's barbet)

1831. *Bucco henricii* Temminck, *Pl. Col. livr.*, **88**, pl. 524.—Sumatra.*Megalaima henricii henricii* is represented by the following skin :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
19127 (324)	♂	Malacca, Malay Peninsula.	1844-1846	Messrs. M. de Storr and Rev. J. W. Lindstedt.	94	48	27	One of the three specimens of Blyth (1852).

Range.—Peninsular Siam and the Malay States ; Sumatra (Peters).**Megalaima pulcherrima** Sharpe

(The Bornean blue-throated barbet)

1888. *Megalaima pulcherrima* Sharpe, *Ibis*, (5) **6** : 393, pl. 11, fig. 2.—Mt. Kina Balu, Borneo.*Megalaima pulcherrima* is represented by the following skin :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
20618	♂	Mt. Kina Balu (ca. 6000') Borneo.	21 Mar. 1892	H. A. Haviland	92	65	25	..

Range.—Mountains of Northwestern Borneo. (Peters).**Megalaima australis** (Horsfield)

The species ranges from North-Eastern India to Burma, Siam and Cochin-China, South to Malay Peninsula, Sumatra, Java and Borneo. Peters (1948) admitted seven subspecies, of which only two occur within the Indian limits.

Megalaima australis cyanotis (Blyth)

(The Indian blue-eared barbet)

1847. *Bucco cyanotis* Blyth, *J. Asiat. Soc. Beng.*, **16** (1) : 465.—Arakan.1896 *Cyanops robustirostris* Stuart Baker, *J. Bombay nat. Hist. Soc.*, **10** : 356, pl. F1.—North Cachar Hills.*Megalaima australis cyanotis* is represented by the following skins :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
27462	♂	Gauhati, Kamrup Dist., Assam.	1 June 1949	R. V. Sherard	83	49	19	..
24557	♀	South Sylhet, Assam	..	C. B. Antram	83	49	20	Purchased.
24558	♀	South Sylhet, Assam	..	C. B. Antram	84	44	20	Purchased.
24559	..	South Sylhet, Assam	..	C. B. Antram	..	..	..	Not fully adult.
27463	♀	South Sylhet, Assam	..	A. M. Pomiror	84	49	21	..
5787	♀	Samaguting, Naga Hills, Assam.	..	Capt. Butler	84	48	19	..

Systematic notes.—Baker's *Cyanops robustirostris* from North Cachar Hills is a juvenile form of *M. australis*. (See also Biswas 1953, p. 34, and Ripley 1953, pp. 547-548.)

Range.—Sikkim, Assam, Burma, South to Tenasserim, Siam, Laos, Annam, Cambodia and Cochin-China. (Peters.)

Megalaima australis duvauceli (Lesson)

(The scarlet-eared barbet)

1830. *Bucco Duvaucelii* Lesson, *Traité' Orn.*, livr., 3: 164.—Sumatra.

Megalaima australis duvauceli is represented by the following skin :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
924	..	Welesley Province, Malay Peninsula.	15 Aug. 1870	..	..	..	..	Purchased. Juvenal

Range.—Malay Peninsula, Sumatra, Banka, Borneo. (Peters.)

Megalaima hæmacephala (P. L. S. Müller)

The species is distributed practically throughout India, Burma, Malay Peninsula, through Siam to Cochin-China and the Polynesian Islands. Peters (1948) admitted five subspecies, of which only *M. hæmacephala indica* occurs in the Indian region.

Megalaima hæmacephala indica (Latham)

(The crimson-breasted barbet)

1790. *Bucco indicus* Latham, *Index orn.*, 1: 205.—Calcutta.

Megalaima hæmacephala indica is represented by the following skins :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
25811	♂	Bareilly, Uttar Pradesh	25 Oct. 1928	S. C. Law	82	37	18.5	..
27455	♀	Banaras, Uttar Pradesh	4 Oct. 1945	Kartar Singh	81	35	19	..
27456	♂	Banaras, Uttar Pradesh	21 May 1946	M. N. Dutta	..	..	..	Juvenal.
25729	♂	Angara, Ranchi Dist., Bihar.	2 Oct. 1925	S. C. Law	70	35	18.5	
26244	♀	Hundroo Forest, Ranchi Dist., Bihar.	8 Nov. 1931	S. C. Law	78	83	19	Flood damaged.
27457	♂	Raghunathpur, Manbhum Dist., Bihar.	6 Dec. 1948	Chotanagur Survey Z. S. I. party	83	85	20	..
27458	♂	Chahala, Mayurbhanj Dist., Orissa.	14 Feb. 1951	B. Biswas.	80	84	18	..
5538	..	Calcutta	..	J. Anderson	80 + 33	18		Flood damaged and wing somewhat worn.

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
27458	♂	Calcutta	24 Sep. 1951	R. V. Sherard	8.5	34.5	19	..
27459	♂	Palasbari, Kamrup Dist., Assam.	17 May 1951	B. Biswas	83.5	37	20	..
11541	♂	Ratnagiri, Dist., Bombay Presidency.	22 Dec. 1878	J. Armstrong	79	34	19	..
11302	..	Bombay Presidency	1878	J. Armstrong	80	33.5	19	..
26725	♀	Trivandrum, Travancore State, S. India.	20 June 1942	N. G. Pillai	76	30+	18	Purchased, tail slightly worn.
23292	♂	Sinh (Ca. 2900'), S. Shan States, (Upper Burma).	16 Dec. 1899	Col. C. T. Bingham.	86	34	20	..
23566	..	Myinmu, Shwebo, Upper Burma.	1899	Col. C. T. Bingham.	86	35	18	..

Systematic notes.—There is a tendency of the green streaks on the under parts to becoming oblescent from East to Northwestward.

Range.—Throughout India, Ceylon and ,Burma, Northern Malay State, Siam, Cambodia and Cochin-China.

Genus *Calorhamphus* Lesson

Calorhamphus fuliginosus (Temminck)

The species is distributed in South Tenasserim, Malaya, Sumatra and Borneo. Peters (1948) recognised three subspecies, of which only *C. fuliginosus hayi* occurs within the Indian limits. In the Indian Museum collections only two subspecies are represented.

Calorhamphus fuliginosus hayi (J. E. Gray)

(The brown barbet)

1831. *Bucco hayii* J. E. Gray, *Zool. Misc.*, 33.—Malacca.

Calorhamphus fuliginosus hayi is represented by the following skins :—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
944	..	Malacca, Malay Peninsula.	16 Aug. 1870	..	81	37	26	Purchased.
13567	..	Malacca, Malay Peninsula.	..	Bengal Economic Museum.	85	50	24.5	..
3568	..	Malacca, Malay Peninsula.	..	Bengal Economic Museum.	83	47	24	..

Range.—Southern Tenasserim and Peninsular Siam, Southward over Malay Peninsula ; Sumatra (Peters).

Calorhamphus fuliginosus fuliginosus (Temminck)

(The red-breasted brown barbet)

1830. *Mycropogon fuliginosus* Temminck, *Pl. col. lior.* 83.—West coast of Borneo, i.e. Pontianak.

Calorhamphus fuliginosus fuliginosus is represented by the following skin :—

Reg. Sex. No.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
				W.	Tl.	B.	
22583 ..	Kuching, Sarawak, Borneo.	16 Aug. 1898	Sarawak Museum.	81	51	24	Received in exchange.

Range.—Borneo (except Northern) (Peters).

Genus *Gymnobucco* Bonaparte

The genus is limited to Africa with four subspecies, as admitted by Peters (1948). The Indian Museum collections are represented by a single species *G. peli*.

Gymnobucco peli Hartlaub

(The bald-headed barbet)

1857. *Gymnobucco peli* Hartlaub, *Syst. orn. Westafr.*, 175.—Dabocrom, Gold Coast.

Gymnobucco peli is represented by the following skin :—

Reg. Sex. No.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
				W.	Tl.	B.	
8457 ..	Fantee, W. Africa	..	British Museum	85	45	20	Received in exchange.

Range.—Gold Coast colony, Southern Nigeria, Cameroons, and Gaboon (Peters).

Genus *Pogoniulus* Lafresnaye

Pogoniulus pusillus (Dumont)

The species ranges in Somaliland, Eritrea, Ethiopia, Lake Victoria in the West and Dar-es-Salaam in the South.

There are four subspecies as admitted by Peters (1948), of which only *P. pusillus uropygialis* is present in our collections.

Pogoniulus pusillus uropygialis (Heuglin)

(The fiery-rumped barbet)

1862. *Barbatula uropygialis* Heuglin, *J. f. orn.*, 10 : 37.—Ain Saba, Eritrea.

Pogoniulus pusillus uropygialis is represented by the following skins :—

Reg. Sex. No.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
				W.	Tl.	B.	
9324 ..	Anseba valley (ca. 4000') Eritrea, N. E. Africa.	29 July 1868	W. T. Blandford	56	32	12.5	The British Abyssinian expedition of 1867-1868.
9325	N. E. Africa	July 1868	W. T. Blandford	55	30	13	The British Abyssinian expedition of 1867-1868.

Range.—Eritrea, Bogosland, the greater part of Ethiopia and Northern Somaliland (Peters).

Genus **Tricholaema** Verreaux and Verreaux

Tricholaema melanocephalum (Cretzschmar)

The species is distributed in Bogosland, Ethiopia, Somaliland, Kenya and Northern Tanganyika territory.

There are three subspecies as admitted by Peters (1948) of which only the nominate subspecies is represented in the Indian Museum collections.

Tricholaema melanocephalum melanocephalum (Cretzschmar)

(The Ethiopian black-foreheaded barbet)

1826. *Pogonias melanocephala* Cretzschmar, in *Ruppell's Atlas*, 1826, *Vog*: 41 *pl.* 28, *f.a.*—Kordofan and Sennar=Ethiopia? *cf.* Sclater and Mackworth-Praed, *Ibis*, (11) 1, 1919: 637.

T. melanocephalum melanocephalum is represented by the following skin:—

Reg. No.	Sex.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
					W.	Tl.	B.	
9428	♀	Massawa, Eritrea, N. E. Africa.	1868	W. T. Blanford	66	36	19	The British Abyssinian expedition of 1867-1868.

Range.—Bogosland and Northern Ethiopia, South to Addis-Ababa and Eastward to near Harar (Peters).

Genus **Lybius** Hermann

Lybius undatus (Ruppell)

The species is distributed throughout Eritrea and Ethiopia.

There are four subspecies as admitted by Peters (1948), of which *L. undatus thiogaster* is represented in the Indian Museum collections.

Lybius undatus thiogaster Neumann

(The undulated barbet)

1903. *Lybius thiogaster* Neumann, *Orn. Monatsb.*, 11: 59.—Keren, Bogosland.

Lybius undatus thiogaster is represented by the following skins :—

Reg. Sex. No.	Locality.	Date of collection.	Collector or Donor.	Measurements.			Remarks.
				W.	Tl.	B.	
9331 ♂	Addigerat (ca. 8000'), Eritrea, Africa.	3 Apr. 1868	W. T. Blanford	80	50	22	The British Abyssinian expedition of 1867-1868.
9333 ♀	Badraket, Tigre, Abyssinia.	N. 24 May 1868	W. T. Blanford	80	45	20	The British Abyssinian expedition of 1867-1868.

Range.—Eritrea and Northern Ethiopia (Peters).

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