

CATALOGUE OF A COLLECTION OF BIRDS MADE BY  
DOCTOR W. L. ABBOTT IN EASTERN TURKESTAN, THE  
THIAN-SHAN MOUNTAINS, AND TAGDUMBASH PAMIR,  
CENTRAL ASIA, WITH NOTES ON SOME OF THE SPECIES.

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THE present paper is based on a collection of birds made by Dr. Abbott in the course of his travels through Eastern Turkestan, the Thian-Shan Mountains, and in the Tagdumbash Pamir. This collection, numbering 210 finely prepared specimens and representing 98 species, has been presented to the National Museum by Dr. Abbott, with characteristic liberality, and forms an important addition to our meager representation of Central Asian birds. This last contribution of Dr. Abbott's is of the same high order as the preceding ones, the specimens showing a neatness of preparation and minute detail of data not often seen in collections formed in remote parts and under difficulties.

It seems desirable in this case, as in the catalogue of the Kashmir collection, to present a complete list of the specimens with their accompanying data, and, for the same reason expressed in that catalogue, the classification employed is that used in Dr. Sharpe's report on the birds of the "Second Yarkand Mission."

Dr. Abbott made a short excursion from Leh, Ladak, to Suget, Eastern Turkestan, in the early part of July, 1893, which was followed shortly by another and much more extended journey of many months, during which the following localities were visited: Starting from Suget late in July, Karakash River, Killian Pass, Killian, Bora, Kargallik, and Yarkand were visited during the month of August, and Kashgar early in September. The Thian-Shan Mountains were then reached, and the remainder of September, the whole month of October, and a few days of November were spent there. Returning, the valley of the Aksu, Ushturfan, Aksu, Matan, and the Kashgar River were visited in November, and in the following month and in January, 1894, some time was spent at Pishak Sindi, and on the Yarkand River. The country east of Maralbashi and Kokehall was visited in February, and Kashgar

River and the place of that name were revisited in March. The Gez defile was passed on the last day of March, on the road to Sarikol, which place was reached on the 3d of April. Some days were passed here, after which a trip was made to the Tagdumbash Pamir, lasting until late in June. Returning by way of the Tangitar defile and Teret Pass, some time was spent in the mountains above Eggis Yar, and Kukiar was finally reached late in July. Some collecting was prosecuted on the road and at Killian in August on the way out of the country.

The Willow Warblers were submitted to W. E. Brooks together with those contained in the Kashmir collection, and he has very kindly corrected or verified my identifications of the same.

In the preparation of the present article I have not had access to Dr. Menzbier's "Ornithologie du Turkestan."

### Family FALCONIDÆ.

#### 1. CIRCUS CYANEUS (Linnæus).

Female, adult, The Syrt, Thian-Shan Mountains, November 1, 1893; 6,000 feet. "Bill black, cere pale green; irides brownish yellow; feet yellow; claws black."

Male, adult, Aksu, Eastern Turkestan, November 17, 1893. "Feet yellow; irides orange yellow; length, 18 inches."

#### 2. CIRCUS ÆRUGINOSUS (Linnæus).

Female, immature, Thian-Shan Mountains, north of Kashgar, September 12, 1893; 7,000 feet. "Bill black, cere greenish; feet yellow, claws black; length, 21 inches. Extremely emaciated."

This specimen is without any buffy markings on forehead, throat, or breast, which are dark chocolate brown instead. The specimen may be described as follows: Nape and posterior part of crown deep buff, the feathers with rather narrow dark brown centers; no other trace of buff on head, neck, or breast, except slight traces of buff feathers on forehead at base of culmen; wings, back (rump somewhat duller), scapulars, and tail (above) uniform dark brown, with bronzy reflections, the tail narrowly tipped with deep buff; upper tail-coverts paler brown, the feathers with deep buffy tips; outer tail feathers fulvous at basal third of both webs, where finely mottled with dark brown; inner web of basal half of primaries similar; under parts uniform chocolate brown, lighter on abdomen and flanks, where the feathers are obsoletely tipped with buffy brown; under tail-coverts dark like throat and breast, with buffy tips to the feathers; middle and greater wing-coverts with narrow and almost obsolete rusty edgings; primaries and secondaries with light buff tips; some of the tertiaries with narrow rusty tips. Wing, 15.25 inches; tail, 8.85; tarsus, 3.65; culmen, 1.35.

3. *CIRCUS MACROURUS* (Gmelin).

Female, immature, Thian-Shan Mountains, north of Kashgar. September 11, 1893; 7,000 feet. "Irides yellowish gray; length,  $18\frac{1}{2}$  inches."

Immature, Thian-Shan Mountains, north of Kashgar, September 11, 1893; 7,000 feet. "Feet yellow, claws black; length,  $17\frac{1}{2}$  inches."

4. *ARCHIBUTEO LAGOPUS* (Gmelin).

Female, adult, jungles on Yarkand River, east of Maralbashi, Eastern Turkestan, January 8, 1894. "Feet pale greenish yellow, claws black; bill black, horn blue at base of lower mandible; cere pale green; irides brownish gray; length,  $23\frac{3}{4}$  inches."

5. *GYPAËTUS BARBATUS* (Linnæus).

Adult, Tagdumbash Pamir, April, 1894. Skull only.

6. *AQUILA CHRYSÆTOS* (Linnæus).

Female, immature, Tagdumbash Pamir, April 29, 1894; 13,500 feet. "Length, 38 inches; expanse, 91 inches; weight,  $10\frac{1}{2}$  pounds. Shot by D. T. Hanbury, esq."

7. *FALCO REGULUS*, Pallas.

Male, immature, Pishak Sindi, east of Maralbashi, Eastern Turkestan January 27, 1894. "Feet yellow, claws black; bill horn blue, black at tip; cere pale greenish; irides dark brown; length,  $11\frac{1}{4}$  inches."

8. *FALCO TINNUNCULUS*, Linnæus.

Male, adult, Thian-Shan Mountains, north of Kashgar, September 10, 1893; 6,000 feet. "Length,  $12\frac{3}{4}$  inches."

Male, adult, near Ushturfan, Eastern Turkestan, November 10, 1893; 6,000 feet. "Length,  $13\frac{1}{4}$  inches."

Male, adult, Ushturfan, Eastern Turkestan, November 11, 1893. "Feet orange, claws black; irides dark brown; length,  $14\frac{1}{4}$  inches."

Male, adult, Aksu, Eastern Turkestan, November 19, 1893. "Length,  $13\frac{1}{2}$  inches."

Male, adult, Matan, 40 miles south of Aksu, Eastern Turkestan, November 27, 1893. "Length,  $13\frac{1}{4}$  inches."

## Family CORVIDÆ.

9. *CORVUS FRUGILEGUS*, Linnæus.

Male, adult, Ushturfan, Eastern Turkestan, November 15, 1893. "Length, 19 inches."

Female, immature, Ushturfan, Eastern Turkestan, November 15, 1893. "Length,  $17\frac{1}{4}$  inches."

## 10. CORVUS CORAX, Linnæus.

Male, adult, Tagdumbash Pamir, May 14, 1894; 14,000 feet. "Length, 25 inches." Wing, 16.70 inches; tail, 10; tarsus, 2.75; culmen, 2.77.

## 11. CORVUS MONEDULA COLLARIS (Drummond).

Male, adult, Ushturfan, Eastern Turkestan, November 14, 1893. "Bill and feet black; irides white; length,  $13\frac{3}{4}$  inches."

## 12. CORVUS SHARPII, Oates.

Female, adult, Thian-Shan Mountains, north of Kashgar, September, 1893; 9,000 feet. "Irides dark brown; length,  $18\frac{3}{8}$  inches."

## 13. CORVUS CORONE, Linnæus.

Male, adult, Yarkand, Eastern Turkestan, August 18, 1893; 4,000 feet. "Length,  $20\frac{1}{2}$  inches."

Male, adult, Ushturfan, Eastern Turkestan, November 11, 1893; 5,000 feet. "Length,  $21\frac{1}{2}$  inches."

*Measurements of Corvus corone.*

U.S.N.M.	Sex.	Locality.	Date.	Wing.	Tail.	Tarsus.	Culmen.
150239	Male ad.	Ushturfan, Eastern Turkestan.	Nov. 11	<i>Inches.</i> 13.50	<i>Inches.</i> 8.80	<i>Inches.</i> 2.56	<i>Inches.</i> 2.37
150240	Male ad.	Yarkand, Eastern Turkestan.	Aug. 18	13.20	8.75	2.35	2.20

## 14. PICA PICA LEUCONOTOS (Brehm.)

Male, adult, Kashgar, Eastern Turkestan, March 19, 1894. "Length, 20 inches."

Male, adult, Kashgar, Eastern Turkestan, March 19, 1894. "Length,  $21\frac{1}{2}$  inches."

## 15. GRACULUS GRACULUS (Linnæus).

Male, adult, Tagdumbash Pamir, April 25, 1894; 13,000 feet.

## 16. PYRRHOCORAX PYRRHOCORAX (Linnæus).

Male, adult, Sarikol, Eastern Turkestan, April 7, 1894; 10,400 feet.

## 17. PODOCES BIDDULPHI, Hume.

Male, adult, Matan, 40 miles south of Aksu, Eastern Turkestan, November 27, 1893. "Irides dark brown; length,  $12\frac{1}{2}$  inches."

Male, adult, Matan, Eastern Turkestan, November 27, 1893. "Bill and feet black; length,  $11\frac{1}{2}$  inches."

Female, adult, Matan, Eastern Turkestan, November 27, 1893. "Length,  $12\frac{1}{4}$  inches."

Male, adult, jungle on Yarkand River, east of Maralbashi, Eastern Turkestan, January 30, 1894. "Length,  $12\frac{1}{4}$  inches."

Male, adult, jungle on Yarkand River, east of Maralbashi, January 30, 1894. "Length, 12 inches."

In the two last-mentioned specimens the ninth and tenth primaries are white, without black terminal markings; in others the ninth primary has a subterminal blackish spot, in one specimen occupying only the inner web, but in the others extending over both webs. The black shaft mark on the middle pair of tail feathers also varies to some extent, being almost restricted to the shaft in one specimen, and having a width of a tenth of an inch in another. In all of the specimens some of the central tail feathers are black on the inner web at their bases, the color being concealed by the tail-coverts.

*Measurements of Podoces biddulphi.*

U.S.N.M.	Sex.	Locality.	Date.	Wing.	Tail.	Tarsus.	Culmen.
				<i>Inches.</i>	<i>Inches.</i>	<i>Inches.</i>	<i>Inches.</i>
150251	Male ad ...	Matan, Eastern Tur- kestan.	Nov. 27, 1893	5.90	.....	1.91	1.97
150252	Male ad ...	.....do .....	.....do .....	5.99	4.43	1.87	2.00
150253	Female ad .....	.....do .....	.....do .....	5.67	4.10	1.82	1.97
150249	Male ad ...	Yarkand River, East- ern Turkestan.	Jan. 30, 1894	5.91	4.10	1.83	1.78
150250	Male ad ...	.....do .....	.....do .....	5.95	4.08	1.86	1.89

Family ORIOLIDÆ.

18. ORIOLUS KUNDUO, Sykes.

Male, adult, Yarkand, Eastern Turkestan, August 19, 1893. "Bill pale pinkish brown; feet dull leaden; irides dull carmine; length, 9 $\frac{7}{8}$  inches."

Family STURNIDÆ.

19. STURNUS VULGARIS MENZBIERI (Sharpe).

Female, adult, Thian-Shan Mountains, north of Kashgar, October 29, 1893; 7,000 feet. "Length, 9 inches."

20. STURNUS PURPURASCENS PORPHYRONOTUS (Sharpe).

Female, adult, Kargallik, Eastern Turkestan, August 12, 1893. "Length, 9 inches." Two specimens.

Adult, Thian-Shan Mountains, north of Kashgar, October 29, 1893; 7,000 feet. "Length, 9 inches."

Family FRINGILLIDÆ.

21. ACANTHIS BREVIROSTRIS (Bonaparte).

Male, adult, Suget, Eastern Turkestan, July 13, 1893; 13,000 feet. "Feet blackish brown; bill horny white; length, 5 $\frac{1}{2}$  inches."

Male, adult, near Suget, Eastern Turkestan, July 29, 1893; 13,000 feet. "Bill pale fleshy, with pink tinge; feet dark brown; length, 5 $\frac{5}{8}$  inches."

Female, adult, near Suget, Eastern Turkestan, July 29, 1893; 13,000 feet. "Bill fleshy white."

Female, adult, Little Kara Kul Lake, Sarikol, Eastern Turkestan, April 3, 1894; 12,000 feet. "Length,  $5\frac{1}{4}$  inches."

Male, adult, Tagdumbash Pamir, June 13, 1894; 13,000 feet. "Length,  $5\frac{1}{4}$  inches."

22. MONTIFRINGILLA ALPICOLA (Pallas).

Male, adult, Turugart Pass, Thian-Shan Mountains, September 20, 1893; 12,000 feet. "Bill orange, dark brown above; feet black; length,  $7\frac{1}{2}$  inches."

23. LEUCOSTICTE BRANDTI, Bonaparte.

Male, adult, Suget Pass, Eastern Turkestan (road from Leh to Yarkand), July, 1893; 16,000 feet. "Bill and feet black; length, 7 inches."

Male, adult, Tagdumbash Pamir, April 28, 1894; 13,000 feet.

24. RHODOSPIZA OBSOLETA (Lichtenstein).

Male, adult, Bora, Eastern Turkestan, August 11, 1893. "Feet pale fleshy brown; bill black; irides pale brown; length,  $6\frac{1}{2}$  inches."

Male, Ushturfan, Eastern Turkestan, November 15, 1893. "Bill black; length,  $6\frac{1}{4}$  inches."

Male, adult, Ushturfan, Eastern Turkestan, November 15, 1893. "Bill horn yellow; length,  $6\frac{1}{4}$  inches."

Male, adult, south of Aksu, Eastern Turkestan, November 23, 1893. "Length,  $6\frac{3}{8}$  inches."

Female, adult, south of Aksu, Eastern Turkestan, November 23, 1893. "Length, 6 inches."

25. BUCANETES MONGOLICUS (Swinhoe).

Male, adult, Thian-Shan Mountains, north of Kashgar, September 13, 1893; 9,000 feet. "Irides brown; feet orange; length,  $5\frac{3}{8}$  inches."

Female, adult, Thian-Shan Mountains, north of Kashgar, September 13, 1893; 9,000 feet. "Length,  $5\frac{3}{8}$  inches."

Female, adult, Thian-Shan Mountains, north of Kashgar, September 13, 1893; 9,000 feet. "Bill dirty yellow, brownish above; length, 6 inches."

Female, adult, Thian-Shan Mountains, north of Kashgar, September 13, 1893; 9,000 feet. "Bill dirty yellow, brownish above; feet orange; length,  $5\frac{3}{8}$  inches."

Male, adult, Thian-Shan Mountains, north of Kashgar, September 16, 1893; 9,000 feet. "Feet pale brown, claws black; length,  $5\frac{7}{8}$  inches."

26. PETRONIA PETRONIA (Linnæus).

Female, adult, Aksu, Eastern Turkestan, November 20, 1893. "Feet pale brownish flesh color; upper mandible dark horn brown, lower mandible yellowish; irides hair brown; length,  $6\frac{1}{2}$  inches."

27. *PASSER MONTANUS DILUTUS*, new subspecies.

*Type*.—No. 150331, U.S.N.M., male, adult; Kashgar, Eastern Turkestan, March 21, 1894. Similar to *P. montanus*, but considerably paler everywhere; no gray across breast; shoulders pale cinnamon-rufous instead of chestnut; sides of body and under wing-coverts very pale buffy white; under side of primaries (or inner web) salmon buff. Wing, 2.83; tail, 2.23; tarsus, 0.71; culmen, 0.46 inches.

This appears to be a very good pale form of the Tree Sparrow. The specimen here described does not differ from the true *P. montanus* in the extent of black on the throat, but Dr. Sharpe in his treatment of that species in the British Museum "Catalogue of Birds" refers to a more restricted black throat patch in the pale race inhabiting Turkestan.

Male, adult, Kashgar, Eastern Turkestan, March 21, 1894.

Male, immature, Killian, Eastern Turkestan, August 9, 1893; 6,000 feet. "Bill horn brown; feet pale fleshy; length,  $5\frac{1}{2}$  inches."

Female, immature, Killian, Eastern Turkestan, August 10, 1893. "Bill black, gape yellow; feet pale flesh, with leaden tinge; length,  $5\frac{7}{8}$  inches."

Male, immature, Killian, Eastern Turkestan, August 10, 1893; 6,000 feet. "Upper mandible horn brown; lower mandible dusky yellow; irides dark brown; feet pale flesh; length, 6 inches."

28. *PASSER AMMODENDRI*, Gould.

Male, adult, junction of Aksu and Kashgar rivers, Eastern Turkestan, December 3, 1893. "Bill horn brown; irides brown; length,  $6\frac{1}{2}$  inches."

Female, adult, junction of Aksu and Kashgar rivers, Eastern Turkestan, December 3, 1893. "Feet pale fleshy brown; bill horn brown; length,  $6\frac{1}{2}$  inches."

Male, adult, Matan, 40 miles south of Aksu, Eastern Turkestan, November 27, 1893. "Length,  $6\frac{3}{4}$  inches."

*Passer ammodendri timidus* (Prjevalsky) differs from the above in its slightly larger dimensions, paler brown on sides of head and nape, and grayer color generally. We have a fine example of this form from Ili, Siberia, which exhibits very well the differences between it and *P. ammodendri*.

29. *CARPODACUS ERYTHRINUS* (Pallas).

Female, adult, Thian-Shan Mountains, north of Kashgar, September 11, 1893; 7,000 feet.

Male, adult, near Kukiär, Eastern Turkestan, August 2, 1894; 6,000 feet.

Female, adult, Tagdumbash Pamir, June 13, 1894; 13,000 feet.

30. *CARPODACUS SEVERTZOWI*, Sharpe.

Male, adult, Little Kara Kul Lake, Sarikol, Eastern Turkestan, April 3, 1894; 12,000 feet.

Male, adult, Gez defile, road to the Pamir, Eastern Turkestan, March 31, 1894. Two specimens.

Female, adult, Tagdumbash Pamir, June 11, 1894; 13,000 feet.

Male, immature, Kuen-Luen Mountains, Killian Pass, Eastern Turkestan, August 6, 1893; 10,000 feet. "Bill pale horn brown."

Male, immature, Kuen-Luen Mountains, Killian Pass, Eastern Turkestan, August 6, 1893; 10,000 feet. "Bill greenish yellow."

### 31. CARPODACUS RHODOCHLAMYS (Brandt).

Male, adult, Thian-Shan Mountains, below the Saribeli Pass, October 28, 1893; 9,000 feet.

Female, adult, Thian-Shan Mountains, below the Saribeli Pass, October 28, 1893; 9,000 feet.

Female, adult, Pishak Sindi, east of Maralbashi, Eastern Turkestan, January 27, 1894. "Bill dark horn brown, pale underneath; irides hair brown; feet dark fleshy brown."

Female, adult, junction of Aksu and Kashgar rivers, Eastern Turkestan, December 2, 1893.

### 32. CARPODACUS STOLICZKÆ (Hume.)

Male, adult, mountains above Eggis Yar, Eastern Turkestan, June 28, 1894; 7,000 feet.

### 33. PYRRHOSPIZA LONGIROSTRIS, Prjevalsky.

Female, adult, north side of Killian Pass, Kuen-Luen Mountains, Eastern Turkestan, August 5, 1893; 15,000 feet. "Upper mandible dark horn brown; lower mandible flesh color; irides light brown; feet blackish brown; length,  $8\frac{1}{8}$  inches."

Male, adult, Teret Pass, Eastern Turkestan, June 26, 1894; 13,300 feet.

Male, adult, Tagdumbash Pamir, May 21, 1894; 14,000 feet. "Bill brownish horn, paler beneath; length, 8 inches."

Female, adult, Tagdumbash Pamir, May 21, 1894; 14,000 feet.

Previous to the receipt of Dr. Abbott's specimens the National Museum possessed no skins of this rare bird, and it has been somewhat difficult to decide, from descriptions alone, to which of the described forms these specimens belong. On the whole, I think they come nearer *P. longirostris* of Prjevalsky, with whose description and plate they have been carefully compared. The dimensions appear to be greater than in the allied forms (see table of measurements), and the females sent by Dr. Abbott agree in general with Prjevalsky's diagnosis, but not so well with Sharpe's description of the female of *P. punicea*,<sup>1</sup> from which they differ in having the rump maize yellow, in decided contrast to the color of the back; the breast maize yellow, many of the feathers broadly tipped with glossy ocher yellow and centered with narrow

<sup>1</sup> Cat. Birds, Brit. Mus., XII, 1888, p. 432.

blackish triangular spots; the upper tail-coverts similar in color to the back, not "like the rump," as set forth in Dr. Sharpe's description of *P. punicea*.

Dr. Abbott's care in determining the sex of his specimens, and his close attention to details in their preparation, renders it very improbable that the examples here regarded as females are immature males. According to Dr. Sharpe's description of *P. punicea* above cited, the young males differ from adult females "in having the rump yellow and in the strong shade of olive-yellow which pervades the throat and breast, while the foreneck and breast have large black triangular spots."

A male from Ladak, recorded in a former paper, and the male from Teret Pass have an isolated spot of crimson posterior to the superciliary stripe of that color.

The three described forms of *Pyrrhospiza* from the Himalayas and central Asia are probably specifically the same, but I prefer to keep the present one separate at present, pending further information on the geographical distribution of the forms, as birds dwelling at such high altitudes may exist in thoroughly isolated colonies, and under such conditions must, of course, be regarded as full species.

*Measurements of Pyrrhospiza longirostris.*

U.S.N.M.	Sex.	Locality.	Date.	Wing.	Tail.	Tarsus.	Culmen.
150313	Female ad.	Kuen-Luen Moun- tains.	Aug. 5, 1893	<i>Inches.</i> 4.48	<i>Inches.</i> 3.40	<i>Inches.</i> 1.00	<i>Inches.</i> .67
150312	Male ad ...	Teret Pass, Eastern Turkestan.	June 26, 1894	4.60	3.40	1.00	.63
150309	Male ad ...	Tagdumbash Pamir ..	May 21, 1894	4.55	3.30	.99	.67
150310	Female ad.	.....do.....	.....do.....	4.42	3.17	.98	.65
		Average.....		4.51	4.32	.99	.66

34. PYRRHULORHYNCHA PYRRHULOIDES (Pallas).

Female, adult, junction of Aksu and Kashgar rivers, Eastern Turkestan, November 29, 1893. "Bill dark horn brown, pale below; feet dark brown; length, 7 inches."

Female, adult, junction of Aksu and Kashgar rivers, Eastern Turkestan, December 2, 1893.

Male, immature, jungle on Kashgar River, 90 miles east of Maralbashi, Eastern Turkestan, December 5, 1893.

Male, adult, jungle east of Maralbashi, Eastern Turkestan, February 1, 1894. "Bill dark horn brown, pale beneath; feet fleshy brown; irides dark brown; length, 7 $\frac{3}{4}$  inches."

Female, adult, jungle east of Maralbashi, Eastern Turkestan, February 1, 1894. "Feet fleshy brown; length, 6 $\frac{7}{8}$  inches."

35. *EMBERIZA SCHÆNICLUS*, Linnæus.

Male, adult, between Ushturfan and Aksu, Eastern Turkestan, November 16, 1893. "Feet dark fleshy brown; upper mandible black; lower mandible dark slaty; length,  $6\frac{3}{8}$  inches."

Male, adult, Aksu, Eastern Turkestan, November 19, 1893. Three specimens.

These birds belong to one of the pale forms of *E. schœniclus*, but I am unable to satisfactorily determine which, if any, of the names already given apply to this particular one.

36. *EMBERIZA LUTEOLA*, Sparrman.

Male, adult, Killian, Eastern Turkestan, August 10, 1893; 6,000 feet. "Feet pale fleshy brown; irides dark brown; upper mandible horn brown; lower mandible leaden; length,  $7\frac{1}{2}$  inches."

Male, adult, Killian, Eastern Turkestan, August 10, 1893; 6,000 feet. "Upper mandible horn brown; lower mandible leaden; feet pale fleshy brown; irides dark brown; length, 7 inches."

Female, immature, Killian, Eastern Turkestan, August 9, 1893; 6,000 feet. "Feet pale brownish flesh; length,  $6\frac{1}{2}$  inches."

37. *EMBERIZA GODLEWSKII*, Taczanowski.

Male, adult, Tangitar defile, Eastern Turkestan, June 25, 1894; 11,000 feet. "Length,  $7\frac{1}{8}$  inches."

38. *EMBERIZA LEUCOCEPHALA* (Gmelin).

Male, adult, Thian-Shan Mountains, north of Kashgar, October 11, 1893; 9,000 feet. "Feet pale fleshy brown; length,  $7\frac{1}{4}$  inches."

## Family ALAUDIDÆ.

39. *OTOCORIS PENICILLATA DILUTA* (Sharpe).

Male, immature, Turgart Pass, Thian-Shan Mountains, September 20, 1893; 12,000 feet. "Feet dark brown; length,  $7\frac{1}{2}$  inches."

Female, adult, Bulan Kul (on road to Sarikol), Eastern Turkestan, April 1, 1894. "Length,  $7\frac{1}{4}$  inches."

Female, adult, Bulan Kul, Eastern Turkestan, April 1, 1894; 10,000 feet. "Length,  $7\frac{1}{8}$  inches."

Male, adult, Bulan Kul, Eastern Turkestan, April 2, 1894; 10,000 feet. "Length,  $7\frac{3}{4}$  inches."

Male, adult, Tagdumbash Pamir, June 16, 1894; 12,000 feet. "Length,  $7\frac{1}{4}$  inches. Eggs belonging to this species also sent."

40. *OTOCORIS LONGIROSTRIS ELWESI* (Blanford).

Male, adult, Suget Pass (on road from Leh to Yarkand), Eastern Turkestan, July 28, 1893; 16,000 feet. "Upper mandible black; lower mandible horny bluish white; feet dull black, soles pale; length,  $7\frac{3}{8}$  inches."

## 41. CALANDRELLA TIBETANA, Brooks.

Female, adult, Tagdumbash Pamir, June 15, 1894; 12,000 feet. "Length, 6 inches. Nest and eggs of this specimen also sent."

Female, adult, Tagdumbash Pamir, June 17, 1894; 12,000 feet. "Length, 6 inches. Nest containing two eggs belonging to this specimen also sent."

Female, adult, Tagdumbash Pamir, June 18, 1894; 12,000 feet. "Length, 5½ inches. Eggs of this specimen also sent."

## 42. CALANDRELLA TIBETANA ACUTIROSTRIS (Hume).

Male, adult, Suget, Eastern Turkestan, July 30, 1893; 13,000 feet. "Bill dull yellow, black on culmen and tip; irides dark brown; feet pale brownish flesh; length, 6½ inches."

Female, young, Suget, Eastern Turkestan, July 30, 1893; 13,000 feet. "Bill dirty yellowish brown; feet pale yellowish flesh color; irides brown."

The above specimens are referred with some hesitation to this form. The adult possesses a very slender bill, and in this respect differs markedly from three birds taken in the Pamir, and recorded under the preceding species, and from three Ladak examples, but the pattern on the outer tail feather does not meet the requirements of *acutirostris* as laid down by Dr. Sharpe,<sup>1</sup> the white on the inner web being fully as extensive as shown in *C. tibetana*, and this is also the case in the young bird from the same locality.

## 43. ALAUDULA PISPOLETTA SEEBOHMI (Sharpe).

Female, adult, Thian-Shan Mountains, north of Kashgar, September 10, 1893; 6,000 feet. "Length, 6½ inches."

Female, adult, Karatol, 35 miles south of Aksu, Eastern Turkestan, November 26, 1893.

The specimens here recorded appear to be referable to this form, but, having no specimens to compare them with, I am obliged to rely upon Dr. Sharpe's description, which is very brief and consists mostly of a comparison with other forms which I have not at hand. The measurements given by him are not referred to either sex, but may be those of the male, as my specimens are considerably smaller.

*Measurements of Alaudula pispoletta seebohmi.*

U.S.N.M.	Sex.	Locality.	Date.	Wing.	Tail.	Culmen.	Tarsus.
150235	Female ad.	Thian-Shan Moun- tains.	Sept. 10, 1893	<i>Inches.</i> 3.49	<i>Inches.</i> 2.54	<i>Inches.</i> 0.39	<i>Inches.</i> 0.77
150236	Female ad.	Karatol, Eastern Turkestan.	Nov. 26, 1893	3.60	2.61	.41	.73

<sup>1</sup> Cat. Birds, Brit. Mus., XIII. p. 586.

## 44. GALERIDA CRISTATA MAGNA (Hume).

Male, adult, Killian, Eastern Turkestan, August 9, 1893; 6,000 feet. "Bill horny flesh color; irides pale brown; feet pale fleshy yellow; length,  $7\frac{7}{8}$  inches."

Female, young, Killian, Eastern Turkestan, August 9, 1893; 6,000 feet. "Feet pale yellowish flesh color."

## Family MOTACILLIDÆ.

## 45. MOTACILLA ALBA DUKHUNENSIS (Sykes).

Male, immature, Chakmak, Thian-Shan Mountains, September 14, 1893; 9,000 feet. "Bill and feet black; length,  $7\frac{3}{8}$  inches."

Male, immature, below Suiok Pass, Thian-Shan Mountains, September 28, 1893; 10,000 feet. "Bill and feet black; length,  $8\frac{1}{8}$  inches."

Male, adult, Tagdumbash Pamir, May 15, 1894; 14,000 feet. "Length,  $8\frac{3}{8}$  inches."

## 46. MOTACILLA PERSONATA, Gould.

Male, adult, Killian, Eastern Turkestan, August 9, 1893; 6,000 feet. "Bill and feet black."

## 47. BUDYTES CITREOLA (Pallas).

Male, adult, west of Kashgar, Eastern Turkestan, March 27, 1894. "Length, 7 inches."

## 48. ANTHUS TRIVIALIS (Linnæus).

Male, adult, Thian-Shan Mountains, north of Kashgar, September 11, 1893; 7,000 feet. "Length,  $6\frac{1}{2}$  inches."

Male, adult, Thian-Shan Mountains, north of Kashgar, September 16, 1893; 9,000 feet. "Bill black above, dirty yellow below; length,  $6\frac{3}{4}$  inches."

## Family PARIDÆ.

## 49. PARUS CYANUS, Pallas.

Male, adult, Aksai Valley, Ushturfan, Eastern Turkestan, November 10, 1893; 6,000 feet.

Male, adult, Ushturfan, Eastern Turkestan, November 15, 1893. "Length,  $5\frac{1}{4}$  inches."

Male, adult, Ushturfan, Eastern Turkestan, November 15, 1893. "Length,  $5\frac{1}{4}$  inches."

These specimens represent a subspecies of *P. cyanus*, differing from it in smaller bill, bluish tinge to top of head; uniform blue of back and rump, and rather less white on wing and tail markings.

Possibly the *P. cyanus tianschanicus* of Severtzoff, but I am at present unable to find a description of the latter.

## 50. LEPTOPŒCILE SOPHIÆ, Severtzoff.

Female, adult, Thian-Shan Mountains, north of Kashgar, September 15, 1893; 9,000 feet. "Bill and feet black; irides red; length, 4 $\frac{3}{4}$  inches."

## 51. PANURUS BIARMICUS SIBIRICUS (Bonaparte).

Male, adult, jungle on Yarkand River, near Maralbashi, Eastern Turkestan, December 23, 1893. "Length, 7 inches."

Male, adult, same locality and date. "Feet black; bill and irides saffron yellow; length, 6 $\frac{5}{8}$  inches."

Male, adult, same locality and date. "Length, 6 $\frac{1}{2}$  inches."

Female, adult, same locality and date. "Length, 6 $\frac{1}{4}$  inches."

Female, adult, same locality and date. "Bill and irides saffron yellow; feet black; length, 6 $\frac{1}{2}$  inches."

Bonaparte's description of a pale form of *P. biarmicus* reputed to occur in Kamtchatka probably refers to the present bird, and his name *sibiricus* would then be eligible for this form, at any rate until some other pale form is discovered in Kamtchatka.

## Family LANIIDÆ.

## 52. LANIUS HOMEYERI, Cabanis.

Female, adult, The Syrt, Thian-Shan Mountains, November 1, 1893; 6,000 feet. "Bill and feet black; base of lower mandible fleshy; length, 11 $\frac{3}{4}$  inches."

Male, adult, The Syrt, Thian-Shan Mountains, November 1, 1893; 6,000 feet. "Irides dark brown; length, 11 $\frac{7}{8}$  inches."

Female, immature, Karatol, 30 miles south of Aksu, Eastern Turkestan, November 24, 1893. "Length, 10 $\frac{3}{8}$  inches."

Female, immature, Pishak Sindi, Kashgar River, Eastern Turkestan, December 12, 1893. "Length, 10 $\frac{1}{4}$  inches."

## 53. LANIUS ISABELLINUS, Ehrenberg.

Male, immature, near Killian, Eastern Turkestan, August 10, 1893. "Feet dull black; upper mandible brown, lower mandible pale dirty yellow; irides dark brown; length, 7 $\frac{1}{2}$  inches."

Female, immature, Kashgar, Eastern Turkestan, September 9, 1893.

Male, immature, Thian-Shan Mountains, north of Kashgar, September 11, 1893; 7,000 feet. "Length, 7 $\frac{1}{2}$  inches."

Female, adult, Thian-Shan Mountains, north of Kashgar, September 13, 1893; 9,000 feet. "Feet black, soles whitish; upper mandible dark horn brown, lower mandible brownish flesh. Length, 7 inches; irides dark brown."

## Family SYLVIIDÆ.

## 54. ACROCEPHALUS AGRICOLA (Jerdon).

Immature, below the Suiok Pass, Thian-Shan Mountains, September 28, 1893; 10,000 feet. "Upper mandible horn black; lower mandible pale flesh; feet pale brownish flesh; length, 5 inches."

In regard to this specimen Mr. Brooks writes: "No. 150425 is *Acrocephalus agricola*. It has the small bastard primary of *Acrocephalus*. None of the *Hypolais* in faded plumage would show so red. I have, however, nothing to compare it with." Thanks to Mr. Brooks, we now have three other examples of this species, and the determination of the Abbott specimen is readily made. I was at first inclined to think it *H. obsoleta*, but the specimeus sent by Mr. Brooks, with his identification, plainly show it to be *A. agricola*. The second primary equals the sixth; third and fourth are about equal and longest; the spurious primary extends about 0.05 inch beyond the primary coverts. Wing, 2.17 inches; tail, 1.90; tarsus, 0.83; culmen, 0.43.

#### 55. PHYLLOPSEUSTES INDICUS (Jerdon).

Male, adult, Tagdumbash Pamir, June 13, 1894; 13,000 feet. "Length,  $4\frac{3}{4}$  inches."

Female, adult, Tagdumbash Pamir, June 13, 1894; 13,000 feet. "Length, 5 inches."

The two specimens of this species do not differ from descriptions, except in the absence of any ochraceous or yellow wash on the rump, which is similar to the back in color. This is probably accounted for by the season of the year in which they were obtained.

#### 56. PHYLLOPSEUSTES HUMII (Brooks).

Female, adult, near Suget, Eastern Turkestan, July 29, 1893. "Feet fleshy brown; upper mandible blackish brown; lower mandible dirty yellowish brown; length,  $4\frac{1}{8}$  inches." "What the bird fades to in the breeding season."—W. E. B.

Male, adult, Thian-Shan Mountains, north of Kashgar, September 15, 1893; 9,000 feet. "Bill brownish black, yellowish at base of lower mandible; feet black, soles white; irides dark brown; length,  $8\frac{1}{8}$  inches." "Good typical example in fresh autumnal plumage."—W. E. B.

Mr. Brooks has corrected me on the above specimens, and I am now satisfied that they are *P. humii*, as identified by him, instead of *P. superciliosus*, with which I had doubtfully classed them.

#### 57. RHOPOPHILUS ALBOSUPERCILIARIS (Hume).

Male, adult, junction of Aksu with Kashgar rivers, Eastern Turkestan, November 29, 1893. "Bill black above, pale below; irides brown; feet pale brownish flesh color; length,  $7\frac{5}{8}$  inches."

Female, adult, Pishak Sindi, Kashgar River, Eastern Turkestan, December 12, 1893. "Length, 7 inches."

Male, adult, Pishak Sindi, Kashgar River, Eastern Turkestan, December 13, 1893. "Length,  $7\frac{3}{8}$  inches."

## Family TURDIDÆ.

## 58. PRATINCOLA MAURA (Pallas).

Female, adult, Thian-Shan Mountains, north of Kashgar, September 15, 1893; 9,000 feet. "Bill and feet black; length,  $5\frac{1}{4}$  inches."

Male, immature. Tagdumbash Pamir, June 10, 1894; 13,000 feet. "Length,  $5\frac{1}{2}$  inches."

Female, adult, Tagdumbash Pamir, June 11, 1894; 13,000 feet. "Length,  $5\frac{1}{4}$  inches. Eggs of this specimen also sent."

The immature male is in rather worn plumage, and is almost exactly similar in color to the adult female. It has the throat black with a slight admixture of pale buff feathers like those of the female; the ear-coverts are nearly uniform black; the white patch on sides of the neck and breast is almost entirely wanting; a few black feathers are present on the crown, while the forehead is largely black; there are also a very few black feathers on the back. The under wing-coverts, thighs, wings, breast (the fore breast is slightly brighter), and remainder of underparts are similar to those of the female; terminal half of lateral tail feathers similar to those of the female, basal half black as in the adult male.

These specimens are of the same form collected in Kashmir by Dr. Abbott, and recently recorded in a paper<sup>1</sup> on his Kashmir collection, which see.

## 59. SAXICOLA PLESCHANKA, Lepechin.

Female, adult, Thian-Shan Mountains, north of Kashgar, September 10, 1893; 6,000 feet. "Length,  $6\frac{1}{2}$  inches."

Male, adult, Thian-Shan Mountains, north of Kashgar, September 10, 1893; 6,000 feet. "Length,  $6\frac{3}{8}$  inches."

Male, adult, Thian-Shan Mountains, north of Kashgar, September 15, 1893; 9,000 feet. "Bill and feet black; length,  $6\frac{1}{2}$  inches."

These autumn birds from the Thian-Shan Mountains are so much larger than the summer birds collected in Kashmir by Dr. Abbott, and the black on the lateral rectrices is so restricted, that it is very difficult to reconcile the two lots to one form. I presume the present series represents true *S. pleschanka*.

*Measurements of Saxicola pleschanka.*

U.S.N.M.	Sex.	Locality.	Date.	Wing.	Tail.	Tarsus. Culmen.	
				<i>Inches.</i>	<i>Inches.</i>	<i>Inches.</i>	<i>Inches.</i>
150382	Male ad...	Thian-Shan Mountains ..	Sept. 10	4.00	2.63	0.95	0.50
150384	Male ad...	.....do .....	Sept. 15	3.93	2.62	.95	.51
150383	Female ad.	.....do .....	Sept. 10	3.67	2.42	.89	.52

## 60. SAXICOLA ISABELLINA, Cretzschmar.

Male, adult, west of Kashgar, Eastern Turkestan, March 27, 1894. "Bill and feet black; length,  $6\frac{1}{4}$  inches."

<sup>1</sup> Proc. U. S. Nat. Mus., XVIII, 1895, p. 479.

## 61. SAXICOLA MONTANA, Gould.

Young, Suget, Eastern Turkestan, July 30, 1893; 13,000 feet. "Bill and feet black; irides dark brown; length,  $6\frac{1}{2}$  inches."

Female, adult, near Killian, Eastern Turkestan, August 8, 1893; 7,000 feet. "Bill and feet black; length,  $6\frac{3}{8}$  inches."

Female, adult, near Killian, Eastern Turkestan, August 8, 1893; 7,000 feet. "Bill and feet black; irides dark brown; length,  $6\frac{5}{8}$  inches."

Male, adult, Chung Terek, Thian-Shan Mountains, north of Kashgar, September 11, 1893; 7,000 feet. "Length,  $6\frac{3}{8}$  inches."

Male, adult, Tagdumbash Pamir, May 1, 1894; 13,500 feet.

Male, adult, Tagdumbash Pamir, June 17, 1894; 12,000 feet. "Length,  $6\frac{1}{2}$  inches."

The adult birds collected in August and September are rather small, the Thian-Shan specimen, particularly, inclining toward *S. deserti* in having a less amount of white on the inner webs of the wing feathers.

I think it will be necessary eventually to regard this form as a subspecies of *S. deserti*, and hence *Saxicola deserti montana* (Gould).

Measurements of adults of *Saxicola isabellina*.

U.S.N.M.	Sex.	Locality.	Date.	Wing.	Tail.	Culmen.	Tarsus.
				<i>Inches.</i>	<i>Inches.</i>	<i>Inches.</i>	<i>Inches.</i>
150377	Female ad	Near Killian, Eastern Turkestan.	Aug. 8	3.67	2.50	0.53	1.01
150378	Female ad	.....do.....	.....do.....	3.53	2.32	.57	1.02
150379	Male ad	Thian-Shan Mountains	Sept. 11	3.75	2.53	.53	1.06
150375	Male ad	Tagdumbash Pamir	May 1	3.92	2.57	.58	1.02
150376	Male ad	.....do.....	June 17	3.62	2.53	.57	1.07

## 62. PHOENICURUS ERYTHRONOTUS (Eversmann).

Female, adult, Aksu, Eastern Turkestan, November 27, 1893. "Bill and feet black; length,  $6\frac{1}{2}$  inches."

Male, adult, 30 miles south of Aksu, Eastern Turkestan, November 24, 1893. "Bill and feet black; length,  $6\frac{5}{8}$  inches."

## 63. PHOENICURUS RUFIVENTRIS (Vieillot).

Male, immature, Thian-Shan Mountains, north of Kashgar, September 15, 1893; 9,000 feet. "Bill and feet black; length,  $5\frac{3}{4}$  inches."

Male, adult, Thian-Shan Mountains, north of Kashgar, September 16, 1893; 9,000 feet. "Bill and feet black; irides dark brown; length, 6 inches."

## 64. PHOENICURUS ERYTHROGASTER (Güldenstadt.)

Female, adult, Matan, 40 miles south of Aksu, Eastern Turkestan, November 27, 1893.

Female, adult, junction of Aksu and Kashgar rivers, Eastern Turkestan, December 2, 1893.

Male, adult, Sarikol, Eastern Turkestan, April 8, 1894; 10,400 feet.

65. *CYANECULA SUECICA* (Linnæus).

Male, immature, Thian-Shan Mountains, north of Kashgar, September 16, 1893; 9,000 feet. "Bill, dark horn brown, yellowish at gape; length, 6 inches."

Female. Sarikol, Eastern Turkestan, April 8, 1894.

Male, immature, Killian, Eastern Turkestan, August 4, 1894; 6,000 feet.

The specimen from Sarikol, marked female, although a spring bird, is in the livery of an immature male.

66. *MERULA MERULA INTERMEDIA*, new subspecies.

*Type*.—No. 150443, U.S.N.M., female, adult; Aksu, Eastern Turkestan, November 20, 1893. Entire upper parts (forehead, crown, nape, back, scapulars, rump, and upper tail-coverts) slaty black, the feathers, especially on head and back, bordered with a paler, olive color, the general effect on the head and back being that of clove brown with an olive tinge; tail, dull black; wings, dark slaty brown, the feathers with an olive tinge on the outer webs; lesser, middle, and greater wing-coverts slaty black like upper parts, tinged with olive; primary coverts and outer greater coverts with a more conspicuous olive edging; axillaries and under wing-coverts dull drab gray, some of the longer feathers of the under wing-coverts with light russet shafts; lores and sides of head and neck clove brown with an olive tinge, like the crown; feathers of ear-coverts mostly with white shafts; malar stripe grayish white, broken by indistinct dusky brown edges to the feathers; chin, grayish white; throat similar but with many deltoid spots of clove brown, each spot indistinctly bordered with lighter brown; breast hair brown with an olive tinge, each feather with a deltoid spot of clove brown bordered with lighter brown, the spots larger than those on throat; lower breast, abdomen, sides of body, flanks, and under tail-coverts dull blackish slate, the lower breast with indistinct dark spots; an olive tinge on sides of body; feathers of center of abdomen and lower breast with light grayish borders; thighs, brownish drab. "Bill and feet black; irides, reddish brown; length, 11 $\frac{3}{4}$  inches." Wing, 5.28 inches; tail, 4.82; tarsus, 1.33; culmen, 0.95.

This bird resembles the common Blackbird, but is larger, being intermediate in size between it and *Merula m. maxima* (Seebohm) of Kashmir. It is darker and grayer (I am comparing adult autumn females) with less olive.

The breeding grounds of this bird must be pretty well north; Dr. Abbott's specimens were taken in the Thian-Shan Mountains late in November, and Dr. Scully states that the bird "migrated northward in spring" from Yarkand. The specimens recorded by Dr. Sharpe from various parts of Eastern Turkestan<sup>1</sup> under the name of *Merula maxima*

<sup>1</sup>Second Yarkand Mission, 1891, Aves, p. 91.

were winter specimens, and it seems very probable that there is a considerable hiatus between the summer homes of the present form and *maxima*. If this prove to be the case I may be in error in considering *maxima* a subspecies of *Merula merula*.

*Measurements of Merula merula intermedia.*

U.S.N.M.	Sex.	Locality.	Date.	Wing.	Tail.	Tarsus.	Culmen.
				<i>Inches.</i>	<i>Inches.</i>	<i>Inches.</i>	<i>Inches.</i>
150443	Female ad.	Aksu, Eastern Turkestan.	Nov. 20, 1893	5.28	4.82	1.33	0.95
150444	Female ad.	Karatol, Eastern Turkestan.	Nov. 24, 1893	5.12	4.50	1.31	1.94
	Female ad.	Europe, average of four skins.	Winter.	4.75	4.04	1.25	.84

The specimens collected by Dr. Scully at Yarkand<sup>2</sup> measured: Male, wing, 5.46 inches; tail, 5.15; tarsus, 1.30; bill from gape, 1.28. Female, wing, 5.40 inches; tail, "5.60;" bill from gape, 1.35. The length of tail in the last case may be a mistake for 5.06 inches.

The measurements given by Dr. Sharpe for a number of Eastern Turkestan specimens are in keeping with those mentioned above, the wings running from 5.20–5.40 inches, and the tails from 4.80–5 inches.

67. *MERULA ATROGULARIS* (Temminck).

Female, adult, Kok Kya, Thian-Shan Mountains, north of Kashgar, October 17, 1893; 9,000 feet. "Bill black, lower mandible yellow at base; irides dark brown; feet pale fleshy brown; length, 10 inches."

Female, adult, Aksu, Eastern Turkestan, November 23, 1893; 3,500 feet. "Length, 10 inches."

68. *MONTICOLA SAXATILIS*, Linnæus.

Male, immature, Thian-Shan Mountains, north of Kashgar. September 15, 1893; 9,000 feet. "Bill black yellowish at base below; legs brownish black."

Family CINCLIDÆ.

69. *CINCLUS LEUCOGASTER*, Bonaparte.

Male, adult, Tagdumbash Pamir, June 4, 1894; 13,000 feet. "Irides clear brown; length, 7½ inches."

Our specimen appears to be typical of *leucogaster*.

Family ACCENTORIDÆ.

70. *PRUNELLA FULVESCENS* (Severtzoff.)

Female, adult, Karakash River, Eastern Turkestan, August 3, 1893; 12,000 feet. "Bill black; irides pale brown; length, 6¼ inches."

Female, adult, Thian-Shan Mountains, north of Kashgar, September 13, 1893; 9,000 feet. "Bill black; irides pale brown; length, 6¼ inches."

<sup>1</sup> "Bill and feet black; irides dark brown; length, 11 inches."

<sup>2</sup> "Stray Feathers." IV, 1876. p. 139.

## Family MUSCICAPIDÆ.

## 71. MUSCICAPA GRISOLA, Linnæus.

Male, adult, Thian-Shan Mountains, north of Kashgar, September 11, 1893; 7,000 feet. "Length,  $6\frac{1}{4}$  inches."

## Family HIRUNDINIDÆ.

## 72. HIRUNDO URBICA, Linnæus.

Female, adult, Tagdumbash Pamir, June 19, 1894; 11,000 feet.

## 73. PTYONOPROGNE RUPESTRIS (Scopoli).

Female, adult, Kuen-Luen Mountains, near Kukiär, Eastern Turkestan, July 30, 1894; 9,000 feet.

## 74. CHELIDON RUSTICA (Linnæus).

Male, adult, Bora, Eastern Turkestan, August 11, 1893; 6,000 feet. "Bill and feet black; length,  $8\frac{1}{2}$  inches."

## Family PICIDÆ.

## 75. DRYOBATES MAJOR LEUCOPTERUS (Sálvadori).

Female, adult, Aksu, Eastern Turkestan, November 20, 1893. "Irides reddish brown; length,  $9\frac{3}{4}$  inches."

Female, adult, Matan, 40 miles south of Aksu, Eastern Turkestan, November 27, 1893. "Length,  $9\frac{1}{4}$  inches."

Male, adult, jungles on Kashgar River, 100 miles below Maralbashi, Eastern Turkestan, December 4, 1893.

## Family UPUPIDÆ.

## 76. UPUPA EPOPS, Linnæus.

Female, adult, Sarikol, Eastern Turkestan, April 8, 1894; 10,400 feet.

## Family MICROPODIDÆ.

## 77. MICROPUS APUS PEKINENSIS (Swinhoe).

Male, adult, Kukiär, Eastern Turkestan, July 27, 1894; 6,500 feet. "Length,  $6\frac{3}{4}$  inches."

Female, adult, Kukiär, Eastern Turkestan, July 27, 1894; 6,500 feet. "Length, 7 inches."

## Family COLUMBIDÆ.

## 78. COLUMBA RUPESTRIS (Pallas).

Male, adult, Thian-Shan Mountains, north of Kashgar, September, 1893; 9,000 feet. "Bill black; irides pale brown; length, 13 inches."

Female, adult, Little Kara Kul Lake, Sarikol, Eastern Turkestan, April 3, 1894; 12,000 feet. "Length,  $12\frac{1}{8}$  inches."

## 79. TURTUR DOURACA STOLICZKÆ (Hume).

Male, adult, Ushturfan, Eastern Turkestan, November 11, 1893; 5,000 feet.

Female, immature, Ushturfan, Eastern Turkestan, November 11, 1893; 5,000 feet. "Length, 12 $\frac{1}{4}$  inches."

This is an easily recognized large pale form of *Turtur douraca*, and I do not hesitate to record it under the above name.

## Family PTEROCLIDÆ.

## 80. SYRRHAPTES PARADOXUS (Pallas).

Male, adult, Pishak Sindi, east of Maralbashi, Eastern Turkestan, January 23, 1894. "Claws dark horny gray; length, 14 $\frac{1}{4}$  inches."

Male, adult, same locality and date. "Bill bluish white; irides dark brown; length, 15 $\frac{1}{2}$  inches."

Female, adult, same locality and date.

## 81. PTEROCLES ARENARIUS (Pallas).

Female, adult, Akchi, valley of the Aksai, Eastern Turkestan, November 8, 1893; 7,500 feet. "Bill slaty blue; feet dirty leaden white, claws blackish; length, 13 inches."

## Family PHASIANIDÆ.

## 82. TETRAOGALLUS HIMALAYANUS, Gray.

Male, adult, Tagdumbash Pamir, May 20, 1894; 15,000 feet. "Feet orange red, claws dull black; bill brownish horn; naked patch behind eye yellow; irides dark brown; length, 25 $\frac{3}{4}$  inches."

## 83. CACCABIS SAXATILIS CHUCAR (Gray).

Male, adult, Thian-Shan Mountains, below Saribeli Pass, October 28, 1893; 8,000 feet. "Length, 14 $\frac{1}{4}$  inches; weight, 1 $\frac{1}{4}$  pounds."

## 84. COTURNIX COTURNIX (Linnæus).

Male, adult, Thian-Shan Mountains, north of Kashgar, September 16, 1893; 9,000 feet. "Bill pale horn brown above, fleshy beneath; feet fleshy white; irides pale brown; length, 7 $\frac{1}{4}$  inches."

Female, adult, same locality and date. "Length, 8 inches."

## 85. PHASIANUS SHAWI, Elliot.

Male, adult, junction of the Aksu with the Kashgar, Eastern Turkestan, November 29, 1893. "Bill pale yellow horn, with a greenish tinge; irides yellow; orbital skin red; feet pale brownish flesh color; length, 32 $\frac{1}{2}$  inches. Very fat; weight, 2 pounds 10 ounces."

Female, adult, junction of Aksu and Kashgar rivers, Eastern Tur-

kestan, December 2, 1893. "Irides yellow: length, 23 inches; weight, 1½ pounds."

Female, adult, junction of Aksu and Kashgar rivers, Eastern Turkestan, December 2, 1893. "Length, 23½ inches; weight, 1 pound 7 ounces."

Male, adult, jungles on Kashgar River, 100 miles below Maralbashi, Eastern Turkestan, December 4, 1893. "Length, 34½ inches."

Male, adult, Kokchall, east of Maralbashi, Eastern Turkestan, February 12, 1894. "Length, 34½ inches."

#### Family ARDEIDÆ.

##### 86. HERODIAS ALBA (Linnæus).

Male, adult, jungles on Yarkand River, east of Maralbashi, Eastern Turkestan, January 4, 1894. "Bill orange yellow; legs black; irides pale yellow; length, 42¼ inches."

#### Family ANATIDÆ.

##### 87. TADORNA CASARCA (Linnæus).

Male, adult, Kashgar River, near Maralbashi, Eastern Turkestan, March 1, 1894. "Bill and feet black; irides dark brown; length, 23½ inches; weight, 2¾ pounds."

##### 88. NYROCA NYROCA (Güldenstädt).

Male, adult, near Maralbashi, Eastern Turkestan, March 2, 1894. "Feet slaty, webs black; bill black; irides white; length, 17 inches."

#### Family CHARADRIIDÆ.

##### 89. ÆGIALITIS DUBIA (Scopoli).

Male, adult, Sarikol, Eastern Turkestan, April 9, 1894; 10,400 feet.

##### 90. ÆGIALITIS PAMIRENSIS, new species.

*Type*.—No. 150169, U.S.N.M., male, adult; Tagdumbash Pamir, June 16, 1894; 12,000 feet. Crown, back, scapulars (tertiaries slightly darker), pale grayish brown, shafts of feathers darker; tail and wings somewhat darker brown; outer rectrix white except an almost obsolete dusky spot on inner web near end; rest of tail feathers narrowly tipped with white, and (except middle pair) largely white on inner web; primaries largely white on inner web; three innermost primaries with an irregular rectangular spot on the outer web near end; greater wing-coverts with broad white tips; some of the feathers of primary coverts narrowly tipped with white; longer secondaries with white outer webs; under wing-coverts pure white, without visible darker centers to the feathers. Throat, cheeks, abdomen, flanks, and under tail-coverts pure

white; feathers of upper tail-coverts light grayish brown, largely edged and bordered with white; a broad pectoral band of cinnamon buff, continuous on sides of neck and nape, where more restricted, and extending narrowly on sides of body almost to flanks; forehead almost entirely black, the feathers with white bases: small spot of white on lores with black tips to the feathers; a narrow line of pale buff just posterior to black of forehead, and extending back on sides of crown. Wing, 4.93 inches; tail, 1.91; tarsus, 1.36; exposed culmen, .72. "Length, 7½ inches." Legs and feet bluish black in dried skin.

This species, of which Dr. Abbott sends only one specimen, has almost identically the same pattern of coloration as *E. mongola*, but the white forehead of the latter is nearly black in this; the colors are everywhere much paler: the pectoral band is cinnamon buff instead of russet; the dimensions are quite different,—a longer bill and tarsi, and shorter wings and tail. The table of measurements here given will illustrate these differences in proportions.

*Measurements of Egiialitis pamirensis.*

U.S.N.M.	Sex.	Locality.	Date.	Wing.	Tail.	Tarsus.	Culmen.
				<i>Inches.</i>	<i>Inches.</i>	<i>Inches.</i>	<i>Inches.</i>
150169	Male ad ...	Tagdumbash Pamir.....	June 16	4.93	1.91	1.36	0.72

*Measurements of Egiialitis mongola (male).*

U.S.N.M.	Sex.	Locality.	Date.	Wing.	Tail.	Tarsus.	Culmen.
				<i>Inches.</i>	<i>Inches.</i>	<i>Inches.</i>	<i>Inches.</i>
89051	Male ad ...	Bering Island.....	May 11	5.20	2.03	1.19	0.61
92778	Male ad ...	do .....	May 14	5.04	2.04	1.12	.61
120583	Male ad ...	Hakodate, Japan .....	May 10	5.49	2.19	1.20	.62
109423	Male ad ...	Japan .....	Feb. 6	5.22	1.99	1.13	.64
		Average.....		5.24	2.06	1.16	.62

*Measurements of Egiialitis mongola (female).*

U.S.N.M.	Sex.	Locality.	Date.	Wing.	Tail.	Tarsus.	Culmen.
				<i>Inches.</i>	<i>Inches.</i>	<i>Inches.</i>	<i>Inches.</i>
89052	Female ad.	Bering Island.....	May 11	5.19	2.07	1.16	0.62
92779	Female ad.	do .....	Feb. 7	4.96	1.98	1.14	.59
92780	Female ad.	do .....	April 6	5.09	1.96	1.20	.63
131777	Female ad.	do .....	June 3	5.27	2.16	1.18	.60
		Average.....		5.13	2.04	1.17	.61

91. VANELLUS VANELLUS (Linnæus).

Female, immature, Kargallik, Eastern Turkestan, August 12, 1893.  
Male, adult, Sarikol, Eastern Turkestan, April 6, 1894; 10,400 feet.

## Family SCOLOPACIDÆ.

## 92. TOTANUS TOTANUS (Linnæus).

Female, adult, near Kashgar, Eastern Turkestan, March 13, 1894.  
 "Length,  $11\frac{1}{4}$  inches."

## 93. TOTANUS OCHROPUS (Linnæus).

Male, adult, Suget, Eastern Turkestan, July 29, 1893; 13,000 feet.  
 "Legs and feet leaden; bill black, greenish at base; irides dark brown;  
 length,  $9\frac{3}{4}$  inches."

## 94. TRINGA TEMMINCKII, Leisler.

Male, adult, Tagdumbash Pamir, May 26, 1894; 14,000 feet.  
 "Length, 6 inches."

## 95. SCOLOPAX RUSTICOLA, Linnæus.

Male, adult, Ushturfan, Eastern Turkestan, November 15, 1893.  
 "Length,  $13\frac{1}{4}$  inches."

## 96. GALLINAGO SOLITARIA, Hodgson.

Male, adult, Bulan Kul, road to Sarikol, Eastern Turkestan, April 2,  
 1894; 10,000 feet. "Length, 12 inches."

## 97. IBIDORHYNCHA STRUTHERSII, Vigors.

Female, adult, valley of the Aksu, Eastern Turkestan, November 9,  
 1893; 7,000 feet. "Bill dark carmine; feet dull pink; irides carmine;  
 length,  $17\frac{1}{2}$  inches. Shot by D. T. Hanbury, esq."

## Family RECURVIROSTRIDÆ.

## 98. HIMANTOPUS HIMANTOPUS (Linnæus).

Male, adult, Kargallik, Eastern Turkestan, August 12, 1893. "Legs  
 pink; irides red; length,  $14\frac{3}{4}$  inches."