

A CONTRIBUTION TO THE ORNITHOLOGY OF THE DANAKIL-LAND.

By Dr. J. v. MADARÁSZ.

(Plate VII.)

Mr. C. KATONA (KITTEBERGER) after having been some years in German East-Africa, visited the interesting, and ornithologically almost unknown Danakil-Land in 1907 with the intention of collecting birds. The aim of his excursion was originally to penetrate the country to reach its western boundary as far as the range of the eastern mountains of Abessinia, but this project came to nothing by different difficulties putting obstacles in his way, and then he was obliged to remain on the coast, where he did not reach at most more than one hundred kilometers. Therefore the collecting was mostly restricted to the coast, but he was able to collect interesting species inhabiting this Land.

KATONA'S observations upon the migration of the palearctic birds in Danakil-Land was given by him in the periodical «Aquila» 1907.

The birds procured in Danakil-Land for the collection of the Hungarian National Museum is summed up in the following list, with addition of notes and descriptions of the new forms.

Ordo: LARIFORMES.

Fam. LARIDAE.

Larus fuscus, L.

Larus fuscus, LINNÉ, Syst. Nat. p. 136 (1758); REICHW., Vög. Afr. I. p. 41 (1900—1901); KITTEBERG., Aquila, 1907. p. 78.

♂. Assab, 14. VII. 1907.

Larus affinis, REINH.

Larus affinis, REINH., Vid. Medd. 1853. p. 78; REICHW., Vög. Afr. I. p. 43 (1900—1901).

2 ♂, 2 ♀. 1 juv. Assab. I—II. 1907.

Larus leucophthalmus, TEMM.

Larus leucophthalmus, TEMM., Pl. Col. T. 366 (1825). — REICHW., Vög. Afr. I. p. 48 (1900—1901).

1 ♂, 4 ♀. Fatmah Island, 21. V. 1907.

5 ♂, 4 ♀. Assab, 28. I., 13. V., 29. VI. 1907.

Besides this little series of skins there were also collected 18 eggs in 9 clutches on Fatmah Island on the 11th of July.

These eggs are much of the same type and vary from oval to a pointed oval. The ground-colour varies between creamy-white and creamy-buff. The markings consist of blotches and spots but two of the eggs have irregular stripes, evenly spread all over the shell of sepia-brown with pale underlying purple. The eggs vary from 54 to 58 in length and from 39 to 41 mm in breadth.

Larus Hemprichi (BRUCH).

Adelarus Hemprichii, BRUCH, Journ. f. Orn. 1853. p. 106.

Larus hemprichi (BRUCH), REICHW. Vög. Afr. I. p. 49 (1900—1901).

6 ♂, 3 ♀. Assab, 3—17 I., 29. VI. 1907.

Sterna anaestheta SCOP.

Sterna anaesthetus, SCOP., Del. F. Fl. Ins. I. p. 92 (1786).

Sterna anaestheta, REICHW., Vög. Afr. I. p. 55 (1900—1901); KITTENB., Aquila, 1907. p. 176.

♂. Fatmah Island, 7. VI. 1907.

♀. Assab, 1. V. 1907.

Sterna caspia PALL.

Sterna caspia, PALL., N. Comm. Petr. XIV. p. 582 (1770); REICHW., Vög. Afr. I. p. 56 (1900—1901); KITTENB., Aqu. 1907. p. 175.

1 ad. Fatmah Island, 28. V. 1907.

Sterna Bergei LICHST.

Sterna Bergii, LICHST., Verz. Doubl. p. 80 (1823); REICHW., Vög. Afr. I. p. 57 (1900—1901); KITTENB., Aqu. 1907. p. 175.

2 ♂. Assab, 20—23. II. 1907.

Sterna media HORSF.

Sterna media, HORSF., Tr. Linn. Soc. 1820. p. 199; REICHW., Vög. Afr. I. p. 60 (1900—1901); KITTENB., Aquila 1907. p. 176.

1 ♂, 3 ♀. Assab, V, VI—VII. 1907.

Sterna albigena LICHST.

Sterna albigena, LICHST., Verz. Doubl. p. 98 (1854); REICHW., Vög. Afr. I. p. 65 (1900—1901); KITTENB., Aquila, 1907. p. 176.

3 ♂, 4 ♀. Assab, V, VI—VII. 1907.

28 eggs (14 clutches). Fatmah Island, 11. VII. 1907.

Sterna Saundersi HUME.

Sterna saundersi, HUME, Str. Feath., 1877. p. 324.

Sterna minuta saundersi, HUME, REICHW., Vög. Afr. I. p. 67 (1900—1901); KITTENB., Aquila, 1907. p. 175.

3 ♂, 9 ♀. Assab, 22. II. 1907.

2 ♀. Fatmah Island, 21. V. 1907.

Ordo: PELECANIFORMES.

Fam. SULIDAE.

Sula sula (L.)

Pelecanus Sula, LINNÉ, Syst. Nat. I. p. 218 (1766).

Sula sula, (L.), REICHW., Vög. Afr. I. p. 85 (1900—1901).

4 ♂. 2 ♀. Assab, II—III. 1907.

Fam. PELECANIDAE.

Pelecanus rufescens GMEL.

Pelecanus rufescens GMEL., Syst. Nat. II. p. 571 (1788); REICHW., Vög. Afr. I. p. 102 (1900—1901).

2 ♂, 2 ♀. Assab, I, III, V, VII. 1907.

1 egg. Fatmah Island, 11. VII. 1907.

This egg measures 81 mm in length and 51½ mm in breadth.

Ordo: ANSERIFORMES.

Fam. ANATIDAE.

Chenalopex aegyptiacus (L.)

Anas aegyptiacus, LINNÉ, Syst. Nat. I. p. 197 (1766).

Chenalopex aegyptiacus, (L.), REICHW., Vög. Afr. I. p. 131 (1900—1901).

2 ♂. Gibdo, 20. IV. 1907.

1 pull. Gibdo, 3. V. 1907.

Ordo: CHARADRIIFORMES.

Fam. DROMADIDAE.

Dromas ardeola, PAYK.

Dromas ardeola, PAYK., Vet. Ak. Handl. 1805. p. 182, tab. 8; REICHW., Vög. Afr. I. p. 202 (1900—1901); KITTENB., Aquila, 1907. p. 176.

2 ♂. 6 ♀. Assab, V—VII. 1907.

Fam. OEDICNEMIDAE.

Oedicnemus Dodsoni, GRANT.

Oedicnemus dodsoni, GRANT, Bull. Br. Or. Cl. LXVI. p. 30 (1890); REICHW., Vög. Afr. I. p. 200 (1900—1901).

2 ♂. 2 ♀. Margebla, 18. III.. 26. VII. 1907.

These examples agree exactly with those originating from southern Arabia.

Fam. HAEMATOPODIDAE.

Haematopus ostralegus, L.

Haematopus ostralegus, LINNÉ, Syst. Nat. p. 152 (1758); REICHW., Vög. Afr. I. p. 140 (1900—1901); KITTENB., Aquila, 1907. p. 177.

3 ♀. Assab, 13. III., 14—29. VII. 1907.

KATONA first observed the European Oyster-catcher in the end of January in small parties on the coast, which increased into great flocks until middle of March, and decreasing again early in April, yet some specimens always have been seen until August. According to the statement

of the natives who are well acquainted with the birds in question, they are to be found during the whole year.

According to my opinion those birds, which remain there also during the breeding season may be all immature specimens, which seems to prove examples collected and above enumerated being in juvenal plumages.

Fam. ARENARIIDAE.

Arenaria interpres (L.).

Tringa interpres, LINNÉ, Syst. Nat. p. 148 (1758).

Arenaria interpres (L.), REICHW., Vög. Afr. I. p. 142 (1900–1901); KITTENB., Aquila, 1907. p. 177.

4 juv. (♂ & ♀). Assab, 3. II. 1907.

♂ ad. Fatmah Island, 21. V. 1907.

The Turnstone was observed by KATONA in small parties in the middle of January and the early part of February, in March and early in April in great flocks on the coast. The bird was seen constantly by him until the first of August.

Fam. CHARADRIIDAE.

Squatarola squatarola (L.).

Tringa squatarola, LINNÉ, Syst. Nat. p. 149 (1758).

Squatarola squatarola, (L.), REICHW., Vög. Afr. I. p. 163 (1900–1901); KITTENB. Aquila, 1907. p. 176.

2 ♂, 1 ♀. Assab, 16. I., 3. II., 17. II. 1907.

Charadrius fulvus, GMEL.

Charadrius fulvus, GMEL., Syst. Nat. II. p. 687 (1788).

Charadrius dominicus fulvus, GM., REICHW., Vög. Afr. I. p. 166 (1900–1901).

♀. Assab, 14. III. 1907.

Ochthodromus Geoffroyi (WAGL.).

Charadrius Geoffroyi, WAGL., S. Av. Charadr. p. 61 (1827); REICHW., Vög. Afr. I. p. 166 (1900–1901).

♀. Assab, 3. II. 1907.

Aegialitis hiaticola (L.)

Charadrius hiaticula LINNÉ, Syst. Nat. p. 150 (1758); REICHW., Vög. Afr. I. p. 174 (1900—1901).

♀. Assab, 3. II. 1907.

Aegialitis dubia (SCOP.)

Charadrius dubius, SCOP., Del. F. Fl. Ins. II. p. 93 (1786); REICHW., Vög. Afr. I. p. 175 (1900—1901); KITTENB., Aquila, 1907. p. 177.

♀. Assab, 19. II. 1907.

Aegialitis alexandrina (L.)

Charadrius alexandrinus, LINNÉ, Syst. Nat. p. 150 (1758); REICHW., Vög. Afr. I. p. 169 (1900—1901).

4 ♂, 4 ♀. Assab, I. IV. 1907.

Fam. SCOLOPACIDAE.

Numenius arquatus (L.)

Scolopax Arquata, LINNÉ, Syst. Nat. p. 145 (1758).

Numenius arquatus (L.), REICHW., Vög. Afr. I. p. 209 (1900—1901); KITTENB., Aquila, 1907. p. 177.

♂. Assab, 6. II. 1907.

The Common Curlew according to KATONA'S notes appeared in the middle of January in single specimens on the coast, then in February it was united in great flocks of 20—25 individuals together. He saw later same flocks on the Island of Fatmah on 21st of May, and observed the birds continually until August in single specimens.

Numenius phaeopus (L.)

Scolopax phaeopus, LINNÉ, Syst. Nat. p. 146 (1758).

Numenius phaeopus (L.), REICHW., Vög. Afr. I. p. 210 (1900—1901); KITTENB., Aquila, 1907. p. 177.

♂. Assab, III. 1907.

Limosa lapponica (L.)

Scolopax lapponica, LINNÉ, Syst. Nat. p. 147 (1758).

Limosa lapponica (L.), REICHW., Vög. Afr. I. p. 212 (1900—1901); KITTENB., Aquila, 1907. p. 177.

♂ ♀. Assab, 3, 10. II. 1907.

Totanus totanus (L.).*Scolopax Totanus*, LINNÉ, Syst. Nat. p. 145 (1758).*Totanus totanus* (L.), REICHW., Vög. Afr. I. p. 220 (1900—1901); KITTENB., Aquila, 1907. p. 176.

2 ad. Assab, 3. II., 20. V. 1907.

Totanus littoreus (L.).*Tringa littorae*, LINNÉ, Syst. Nat. p. 149 (1758).*Totanus littoreus* (L.), REICHW., Vög. Afr. I. p. 217 (1900—1901); KITTENB., Aquila, 1907. p. 177.

♂ ♀. Assab, 3—20. II. 1907.

Tringoides hypoleucus (L.).*Tringa Hypoleucos*, LINNÉ, Syst. Nat. p. 149 (1758).*Tringoides hypoleucos* (L.), REICHW., Vög. Afr. I. p. 224 (1900—1901).

♀. Assab, 13. I. 1907.

Calidris arenaria (L.).*Tringa Arenaria*, LINNÉ, Syst. Nat. I. p. 251 (1766).*Calidris arenaria* (L.), REICHW., Vög. Afr. I. p. 226 (1900—1901); KITTENB., Aquila, 1907. p. 177.

5 ad. Assab, I—II. 1907.

Tringa alpina, L.*Tringa alpina*, LINNÉ, Syst. Nat. p. 149 (1758); REICHW., Vög. Afr. I. p. 229 (1900—1901); KITTENB., Aquila, 1907 p. 176.

♀. Assab, 13. II. 1907.

Tringa subarquata (GÜLD.)*Scolopax subarquata*, GÜLD., N. Comm. Petr. 1774. p. 471.*Tringa subarquata* (GÜLD.), REICHW., Vög. Afr. I. p. 230 (1900—1901); KITTENB., Aquila, 1907. p. 176.

2 ♂, 2 ♀, 2 juv. Assab, I—II. 1907.

Tringa minuta, LEISL.

Tringa minuta, LEISL., Nachtr. Bechst. Natg. Deutschl. I. p. 74 (1812); REICHW., Vög. Afr. I. p. 233 (1900—1901); KITTENB., Aquila, 1907. p. 176.

2 ♀. Assab, 22—27. I. 1907.

Ordo: PTEROCLIDIFORMES

Fam. PTEROCLIDAE.

Pterocles Lichtensteini. TEM.

Pterocles Lichtensteini, TEMM. Pl. Col. V. T. 355 (1825); REICHW., Vög. Afr. I. p. 311 (1900—1901).

1 ♂, 4 ♀. Assab, 17—29 I., 16. II., 5. IV. 1907.

6 ♂, 1 ♀. Gibdo, 19—23. IV. 1907.

«Toes yellow, bare part round the eyes greenish-yellow, bill reddish-brown» (KATONA).

Ordo: ARDEIFORMES.

Fam. PLATALEIDAE.

Platalea alba, Scop.

Platalea alba, Scop., Del. Fl. F. Insubr. II. p. 92 (1786); REICHW., Vög. Afr. I. p. 331 (1900—1901).

♂. Assab, 23. II. 1907.

4 eggs (2 clutches). 11. VII. 1907.

These eggs are labelled as *Pl. leucorodia*, L., but I think they belongs to this species. The eggs are generally much smaller than those of *Pl. leucorodia*, L. from Hungary, but similarly coloured, and have a pointed oval shape. They measure from 57 to 64 mm in length, and from 41 to 45½ mm in breadth.

Platalea leucorodia, L.

Platalea leucorodia, LINNÉ, Syst. Nat. p. 139 (1758); REICHW., Vög. Afr. I. p. 330 (1900—1901).

♂. Assab, 17. VI. 1907.

Fam. CICONIIDAE.

Abdimia Abdimi (LICHST.)

Ciconia Abdimii, LICHST., Verz. Doubl., p. 76 (1823).

Abdimia abdimi (LICHST.), REICHW., Vög. Afr. I. p. 343 (1900—1901); KITTENB. Aquila, 1907. p. 176.

3 ad. Assab, II—III. 1907.

Fam. ARDEIDAE.

Butorides brevipes (HEMPR. & EHRB.)

Ardea (Nycticorax) brevipes, HEMPR. & EHRB., Symb. Phys. fol. m. (1828).

Butorides brevipes (HEMPR. & EHRB.), REICHW., Vög. Afr. I. p. 372 (1900—1901).

1 ♂, 2 ♀. Assab. 16. I., 8. III., 7. VI. 1907.

Ardea goliath, CRETZSCHM.

Ardea goliath, CRETZSCHM., Atlas, p. 39. tab. 26 (1826), REICHW. Vög. Afr. I. p. 367 (1900—1901).

5 ad., 1 juv. Assab, Fatmah Island, III, VII. 1907.

Herodias schistacea (HEMPR. & EHRB.)

Ardea (Leptorodas) schistacea, HEMPR. & EHRB., Symb. Phys. Aves. fol. i. (1828).

Herodias schistacea (HEMPR. & EHRB.), REICHW., Vög. Afr. I. p. 387 (1900—1901).

I. In slate-coloured plumage.

2 ♂, 2 ♀. Assab, II—III. 1907.

II. In white plumage, with developed ornamental feathers.

♂. Assab, 23. II. 1907.

III. In party-coloured plumage.

1 ad. Assab, 20. II. 1907.

Ordo: COLUMBIFORMES.

Fam. COLUMBIDAE.

Turtur senegalensis (L.)

Columba senegalensis, LINNÉ, Syst. Nat. I. p. 283 (1766).

Turtur senegalensis (L.), REICHW., Vög. Afr. I. p. 406 (1900—1901).

♀. Margebla, 18. III. 1907.

Turtur roseogriseus (SUND.)

Columba roseogrisea, SUND., Krit. Levaill. p. 59 (1857).

Turtur roseogriseus (SUND.), REICHW., Vög. Afr. I. p. 413 (1900—1901); KITTEB., Aquila, 1907. p. 176.

♂ ♀. Assab, 3. IV. 1907.

«Iris carmine, feet rosy-pink, ring round the eye white. Contents of the crop berries; the genital organs of the male strongly developed.» (KATONA.)

Oena capensis (L.)

Columba capensis, LINNÉ, Syst. Nat. I. p. 286 (1766).

Oena capensis (L.), REICHW., Vög. Afr. I. p. 429 (1900—1901); KITTEB., Aquila, 1907. p. 176.

The Long-tailed Dove is not represented in this collection, but according to KATONA's notes (Aquila, 1907. p. 176.) it was observed by him near Assab on 23rd of March.

Ordo: GALLIFORMES.**Fam. PHASIANIDAE.****Coturnix coturnix (L.)**

Tetrao Coturnix, LINNÉ, Syst. Nat. p. 161 (1758).

Coturnix coturnix (L.), REICHW., Vög. Afr. I. p. 505 (1900—1901); KITTEB. Aquila, 1907. p. 177.

The Common Quail was according to KATONA's notes observed by him once at Macaca on 21st of March, but not obtained for the collection.

Ordo: ACCIPITRIFORMES.**Fam. VULTURIDAE.****Otogyps nubicus (SM.)**

Vultur nubicus, SMITH, Griffith's An. Kingd. I. 164 (1829).

Otogyps auricularis (DAUD.) part. REICHW., Vög. Afr. I. p. 512 (1900—1901).

♂. Gibdo, 22. IV. 1907.

«Bill horn-brown yellowish towards the tip; the bare part of the neck and round the eyes reddish, between the lower mandible dark blue; feet ashy-grey.» (KATONA.) Tot. length about 1020, wing 670, tail 350, culmen 80, tarsus 100 mm.

Lophogyps occipitalis (BURCH.)*Vultur occipitalis* BURCH., Trav. II. p. 329 (1824).*Lophogyps occipitalis* (BURCH.), REICHW., Vög. Afr. I. p. 514 (1900—1901).

♂. Gibdo, 28. IV. 1907.

«Bill orange; bare part of the neck reddish; feet flesh-colour.»

(KATONA.)

Neophron percnopterus (L.)*Vultur percnopterus*, LINNÉ, Syst. Nat. p. 87 (1758).*Neophron percnopterus* (L.), REICHW., Vög. Afr. I. p. 521 (1900—1901).

2 ♂. Assab, II—III. 1907.

Fam. FALCONIDAE.

Milvus aegyptius (GM.)*Falco aegyptius*, GMEL., Syst. Nat. I. p. 261 (1788).*Milvus aegyptius* (GM.), REICHW., Vög. Afr. I. p. 609 (1900—1901); KITTENB., Aquila, 1907. p. 176.

The Egyptian Kite is not represented in this collection, but according to KATONA's notes it was observed by him in immense numbers of many thousands on the 5th of March being in migration above the Island of Perim passing to S. E.; a similar large flock was turning round on wings on the 9th of March above Assab.

Melierax metabetes, HEUGL.*Melierax metabetes*, HEUGL., Ibis, 1861. p. 72; REICHW., Vög. Afr. I. p. 544 (1900—1901).

♂ ♀. Margebla, 20. I., 18. III. 1907.

Pandion haliaetus (L.)*Falco haliaetus*, LINNÉ, Syst. Nat. p. 91 (1758).*Pandion haliaetus* (L.), REICHW., Vög. Afr. I. p. 607 (1900—1901); KITTENB., Aquila, 1907. 176.

♀. Assab, 13. II. 1907.

Ordo: SCANSORES.

Fam. CAPTONIDAE.

Trachyphonus margaritatus (CRETZSCHM.)

Bucco margaritatus, CRETZSCHM., Atlas p. 30 tab. 20 (1826).

Trachyphonus margaritatus (CRETZSCHM.), REICHW., Vög. Afr. II. p. 156 (1902–1903).

3 ♂, 2 ♀. Margebla, I–III. 1907.

2 ♂. Gibdo, IV–V. 1907.

Fam. PICIDAE.

Dendromus nubicus (Gm.)

Picus nubicus, GMEL., Syst. Nat. I. p. 439 (1788).

Dendromus nubicus (Gm.), REICHW., Vög. Afr. II. p. 178 (1902–1903).

♂. Margebla, 24. III. 1907.

I must remark, that this single specimen differs from the typical specimens originating from Sudan in having the spots on the whole underside sparsely, but uniformly distributed. Above the bird is less green than those of the typical ones, rather brown with a scarcely visible olive tinge.

Tot. length 215, wing 104, tail 67, bill 24, tarsus 19 mm.

Dendropicus Hemprichi (HEMPR. & EHRB.)

Picus Hemprichii, HEMPR. & EHRB., Symb. Phys. Av. fol. r. (1828).

Dendropicus hemprichi (HEMPR. & EHRB.), REICHW., Vög. Afr. II. p. 197 (1902–1903).

2 ♂. Margebla, II–III. 1907.

♂. Gibdo, 28. IV. 1907.

Ordo: CORACIIFORMES.

Subord. CORACIAE.

Fam. CORACIIDAE.

Coracias garrulus, L.

Coracias garrulus, LINNÉ, Syst. Nat. p. 107 (1758); REICHW., Vög. Afr. II. p. 217 (1902–1903); KITTENB., Aquila, 1907. p. 178.

The European Roller is not represented in this collection, but according to KATONA's notes these birds overspread the Akacie trees in the

environs of Gibdo end of April migrating in many hundreds specimens. From first of May until 7th he observed single ones only.

Subord. COLIAE.

Fam. COLIIDAE.

Colius macrurus (L.)

Lanius macrurus, LINNÉ, Syst. Nat. I. p. 134 (1766).

Colius macrurus (L.), REICHW., Vög. Afr. II. p. 210 (1902—1903).

5 ♂, 3 ♀. Assab, I. 1907.

Subord. HALCYONES.

Fam. ALCEDINIDAE.

Halcyon semicaeruleus (FORSK.)

Alcedo semicaeruleus, FORSKÅL, Descr. Ap. p. 2 (1775).

Halcyon semicaeruleus (FORSK.), REICHW., Vög. Afr. II. p. 276 (1902—1903); KIT-
TENB., Aquila, 1907 p. 176.

♂. Gibdo, I. V. 1907.

This species is, according to KATONA, an endemic passanger in Dana-
kil-Land.

Halcyon abyssinicus (LICHST.)

Ceryle abyssinica, LICHST., Nomencl. Av. p. 67 (1854).

Halcyon abyssinicus (LICHST.), REICHW., Vög. Afr. II. p. 270 (1902—1903).

1 ♂. 2 ♀. Fatmah Island, IV, V, VII. 1907.

Subord. MEROPES.

Fam. MEROPIDAE.

Merops persicus, PALL.

Merops persicus, PALL., Reis. Russ. R. II. p. 708 (1773); REICHW., Vög. Afr. II. p.
322 (1902—1903); KITTENB., Aquila, 1907 p. 176—177.

♂. Margebla, 27. III. 1907.

The Persian Bee-eater was observed by KATONA during the mig-
ration from end of March to end of April in flocks.

Merops albicollis, VIEILL.

Merops albicollis, VIEILL., Nouv. Dict. XIV. p. 15 (1817).

Aerops albicollis (VIEILL.), REICHW., Vög. Afr. II. p. 317 (1902—1903); KITTENB. Aquila, 1907. p. 176.

2 ♂. Margebla, VI—VII. 1907.

Subord. UPUPAE.

Fam. UPUPIDAE.

Upupa senegalensis, Sw.

Upupa senegalensis, Sw., W. Afr. II. p. 114 (1837); REICHW., Vög. Afr. II. p. 335 (1902—1903).

♀. Assab, 2. II. 1907.

2 ad. Margebla, 20. I., 27, III. 1907.

Subord. CAPRIMULGI.

Fam. CAPRIMULGIDAE.

Caprimulgus nubicus, LICHT.

Caprimulgus nubicus, LICHT., Verz. Doubl. p. 59 (1823); REICHW., Vög. Afr. II. p. 362 (1902—1903); KITTENB., Aquila, 1907 p. 176.

2 ♂, 1 ♀. Margebla, 27. III. 1907.

Caprimulgus inornatus, HEUGL.

Caprimulgus inornatus, HEUGL., N. O. Afr. I. p. 129 (1869); REICHW., Vög. Afr. II. p. 360 (1902—1903).

7 ♂, 3 ♀. Gibdo, IV—V. 1907.

Caprimulgus europaeus, L.

Caprimulgus europaeus, LINNÉ, Syst. Nat. p. 193 (1758); REICHW., Vög. Afr. II. p. 352 (1902—1903).

♂. Gibdo, 29. IV. 1907.

Ordo: PASSERIFORMES.

Fam. HIRUNDINIDAE.

Riparia pusilla, ZEDL.

Riparia pusilla, ZEDL., Orn. Monatsb. 1908. p. 176.

♂. Gibdo, IV—V. 1907.

Hirundo rustica, L.

Hirundo rustica, LINNÉ, Syst. Nat. p. 191 (1758); REICHW., Vög. Afr. II. p. 406 (1902—1903); KITTEB., Aquila, 1907. p. 177.

♀. Margebla, 10. II. 1907.

♀. Gibdo, 20. IV. 1907.

Fam. MUSCICAPIDAE.

Muscicapa grisola, L.

Muscicapa grisola, LINNÉ, Syst. Nat. l. p. 328 (1766); REICHW., Vög. Afr. II. p. 449 (1902—1903); KITTEB., Aquila, 1907. p. 178.

One specimen of the Common Fly-catcher was observed by KATONA on the 14th May, but not obtained for the collection.

Fam. LANIIDAE.

Lanius fallax, FINSCH.

Lanius fallax, FINSCH, Trans. Zool. Soc. 1870. p. 249; REICHW., Vög. Afr. II. p. 618 (1902—1903).

♂, ♀, 1 juv. Assab, I., IV—VI. 1907.

♀. Margebla, 20. I. 1907.

Lanius nubicus, LICHST.

Lanius nubicus, LICHST., Verz. Doubl. p. 47 (1823); REICHW., Vög. Afr. II. p. 612 (1902—1903); KITTEB., Aquila, 1907. p. 178.

♂. Gibdo, 19. IV. 1907.

Lanius collurio, L.

Lanius collurio, LINNÉ, Syst. Nat. p. 94 (1758); REICHW., Vög. Afr. II. p. 622 (1902–1903); KITTENB., Aquila, 1907. p. 178.

♂. Gibdo, 19. IV. 1907.

The Red-backed Shrike was, according to KATONA's notes, represented during the migration from end of April to middle of May in great numbers.

Lanius isabellius (HEMPR. & EHRB.).

Lanius isabellinus, HEMPR. & EHRB., Symb. Phys. I. fol. e. (1828); REICHW., Vög. Afr. II. p. 624 (1902–1903); KITTENB., Aquila, 1907. p. 177.

The Isabelline Shrike was observed in some specimens by KATONA in March at Margebla and in April at Gibdo, but not one was obtained for the collection.

Lanius phoenicuroides (SCHAL.)

Otometa phoenicuroides, SCHALOW, Journ. f. Orn. 1875. p. 148.

Lanius cristatus phoenicuroides (SCHAL.), HARTERT, Vög. palaärkt. Fauna I. p. 443 (1907).

♂. Margebla, 24. III. 1907.

♂. Gibdo, 19. IV. 1907.

Rhodophoneus cruentus (HEMPR. & EHRB.)

Lanius cruentus, HEMPR. & EHRB., Symb. Phys. fol. e. tab. 3 fig. 1–3 (1828).

Pellicinus cruentus (HEMPR. & EHRB.), REICHW., Vög. Afr. II. p. 570 (1902–1903).

1 ♂, 4 ♀. Assab, I, III. 1907.

3 ♂, 1 ♀. Margebla, I, III, V, VI. 1907.

Telephonus habessinicus (HEMPR. & EHRB.)

Lanius senegalus var. habessinicus, HEMPR. & EHRB., Symb. Phys. fol. e. (1828).

Pomatorhynchus blanfordi (SHARPE), REICHW., Vög. Afr. II. p. 550 (1902–1903).

Telephonus senegalus habessinicus (HEMPR. & EHRB.), NEUMANN, Journ. f. Orn. 1907 p. 372.

Tschagra habessinica (HEMPR. & EHRB.), SHELLEY, B. Afr. V. p. 371 (1912).

♀. Margebla, 14. V. 1907.

Fam. CORVIDAE.

Corvus umbrinus, SUND.

Corvus umbrinus, SUND., Öfv. Vet. Ak. Förh. 1838. p. 199; REICHW., Vög. Afr. II. p. 633 (1902—1903).

♂. Assab, 8. II. 1907.

Total length 490, wing 360, tail 200, bill 60, tarsus 60 mm.

Fam. ORIOLIDAE.

Oriolus oriolus (L.)

Coracias oriolus, LINNÉ, Syst. Nat. p. 107 (1758); REICHW., Vög. Afr. II. p. 654 (1902—1903); KITTENB., Aquila. 1907. p. 178.

KATONA observed the Golden Oriol early in May in great flocks, but has not obtained specimens for collection.

Fam. PLOCEIDAE.

Xanthophilus galbula (RÜPP.)

Ploceus galbula, RÜPP., Neue Wirbelt. p. 92 tab. 32 fig. 2 (1835); REICHW., Vög. Afr. III. p. 95 (1904—1905).

9 ♂, 1 ♀. Margebla, I—III. 1907.

1 nest. Margebla, 14. III. 1907.

5 eggs (3 cluches). Margebla, 24—27. III. 1907.

Fam. FRINGILLIDAE.

Fringillaria saturator, SHARPE.

Fringillaria saturator, SHARPE, Bull. Br. Or. Cl. 1901. p. 47; REICHW., Vög. Afr. III. p. 229 (1904—1905).

3 ♂, 1 ♀. Gibdo, IV—V. 1907.

I sent these examples to Tring to Dr. HARTERT for comparison, and he found, that they agree totally with the Type in the Museum.

Fam. ALAUDIDAE.

Pyrrhulauda frontalis (BP.)

Alauda frontalis, BP., Consp. Gen. Av. I. p. 512 (1850).

Coraphites melanauchen, CAB., Mus. Hein. I. p. 124 (1851).

Pyrrhulauda frontalis, REICHENOW, Vög. Afr. III. p. 370., 371 (1904—1905).

9 ♂, 1 ♂ juv. Assab, I—III. 1907.

♀. Gibdo, IV. 1907.

The markings and colouring of the plumage of the series of birds of this species collected in Assab, of which eight examples are reproduced on plate VII., give evidence of the variability of this species. They are originating from the same locality and season, consequently impossible to separate specifically them, and therefore *P. melanauchen* (CAB.) cannot be regarded as species or subspecies, which was separated from *P. frontalis* (BP.) by REICHENOW (Vög. Afr. III. p. 371) and other Authors.

On the otherhand the series reproduced on the Plate shows also, that the white markings on the front of these birds are not constant characters verified conspicuously by the last two figures on the Plate VII., in which in the one the white front is restricted to a small spot, in the other again it is totally absent.

The white frontal patch extends in one bird (fig. 1) over the eyes. This specimen is characterised also by the colour of the back, which is suffused with isabelline, wanting in the other ones. It is remarkable, that the black patch on the hind neck is totally absent in this specimen only.

The black patch on the hind neck in four specimens (fig. 2, 3, 4 and 5) is more or less enlarged, whilst in three specimens (fig. 6, 7 and 8) it is broad encircling the neck, and confluent in the black colour of the fore neck and breast.

Certhilauda desertorum (STANL.)

Alauda desertorum, STANL., SELT's, Trav. Abyss. p. LX. (1814).

Certhilauda alaudipes desertorum (STANL.), REICHW., Vög. Afr. III. p. 349 (1904—1905).

7 ♂, 2 ♀. Assab, I, III. 1907.

5 ♂, 1 ♀. Margebla, I—III, V. 1907.

Ammomanes assabensis, SALV.

Ammomanes assabensis, SALV., Boll. An. Torino 1902. No. 425.

Ammomanes deserti assabensis, SALV., REICHW., Vög. Afr. III. p. 357 (1904—1905).

6 ♂, 3 ♀. Assab, I—III. 1907.

Fam. MOTACILLIDAE.

Anthus trivialis (L.)

Alda trivialis, LINNÉ, Syst. Nat. p. 166 (1758).

Anthus trivialis (L.), REICHW., Vög. Afr. III. p. 311 (1904—1905); KITTENB., Aquila, 1907. p. 178.

This species is not represented in this collection, but enumerated by KATONA, who observed one specimen on 14th of May at Margebla.

Anthus cervinus (PALL.)

Motacilla cervina, PALL., Zoogr. Rosso-As. I. p. 511 (1811).

Anthus cervinus (PALL.), REICHW., Vög. Afr. III. 311 (1904—1905); KITTENB., Aquila, 1907. p. 177.

2 ♂. Assab, 15. IV. 1907.

KATONA observed this bird in some specimens round their camp on the middle of April, which were all in breeding plumage.

Motacilla alba, L.

Motacilla alba, LINNÉ, Syst. Nat. p. 185 (1758); REICHW., Vög. Afr. III. p. 299 (1904—1905); KITTENB., Aquila, 1907. p. 176, 177.

♂. Assab, 11. I. 1907.

Budytes borealis (SUND.)

Motacilla borealis, SUND., Öfv. Vet. Ak. Förh. 1840. p. 53.

Budytes borealis (SUND.), REICHW., Vög. Afr. III. p. 304 (1904—1905); KITTENB., Aquila, 1907. p. 177.

♂. Assab, 16. III. 1907.

Fam. NECTARINIIDAE.

Cinnyris habessinicus (HEMPR. & EHRB.)

Nectarinia habessinica, HEMPR. & EHRB., Symb., Phys. tab. 4. (1824).

Cinnyris habessinicus (HEMPR. & EHRB.), REICHW., Vög. Afr. III. p. 484 (1904—1905).

6 ♂, 2 ♂ juv. Margebla, I—II. 1907.

Hedydipna danakilensis n. subsp.

This subspecies is an immediate form between *H. metallica* (LICHST.), and *H. Muelleri* (LORZ & HELLM.).

Head, neck and back of the male as in *H. metallica*, but rump and upper tail-coverts steel-blue as in *H. Muelleri*; further somewhat larger than *H. metallica*: wing 57—59 mm; middle tail feathers up to 120 mm.

The female resembles that of *H. metallica*, but perhaps somewhat darker above; throat yellowish-white, breast and abdomen suffused with sulfur-yellow as in *H. metallica*.

3. ♂, 7 ♂ juv., 3 ♀. Assab. II. 1907.

2 ♂. Margebla, I—II. 1907.

I had an opportunity to compare these specimens with the type of *H. Muelleri* in the Hof-Museum at Vienna. The male of *H. Muelleri* has the under tail-coverts pure white, whilst in *H. danakilensis* they are strongly washed with yellow or orange-yellow. The female of *H. Muelleri* has the whole underside uniform yellowish-white, wanting the sulfur-yellow shade on the breast and abdomen, which characterizes the female of *H. danakilensis*:

Fam. PYCNONOTIDAE.

Pycnonotus somaliensis, REICHW.

Pycnonotus somaliensis, REICHW., Vög. Afr. III. p. 480 (1904—1905).

2 ad. Margebla, 10. I. 1907.

3 ♂, 2 ♀. Assab, I. 14., II. 5., IV. 1907.

♂. ♀. Gibdo, 20. IV. 1907.

Nest, with two eggs. Assab, 26. VI. 1907.

General colour above light earthy brown; head black, with brownish shade; side of face also blackish, as well as the throat shading into brown on the crop; remainder of under surface white, strongly washed with dusky-brown; under tail-coverts white; sides of neck more or less white, forming a large white patch in some specimens. Male and female alike. Tot. length 185, wing 78—86, tail 74—84, bill 14—16, tarsus 18—19 mm.

The ground colour of the eggs of this Bulbul collected by KATONA is white speckled with deep reddish-brown, mostly concentrated round the larger end of the shell, with underlying purplish spots. They measure from 21 to 22 mm in length, and from $16\frac{1}{2}$ to 17 mm. in breadth.

Fam. TURDIDAE.

Saxicola oenanthe (L.)

Motacilla oenanthe, LINNÉ, Syst. Nat. p. 186 (1758).

Saxicola oenanthe (L.), REICHW., Vög. Afr. III. p. 723 (1904—1905); KITENB., Aquila, 1907. p. 177.

♂ ad. Assab, 3. IV. 1907.

Saxicola vittata HEMPR. & EHRB.

Saxicola vittata, HEMPR. & EHRB., Symb. Phys. fol. cc. (1828); REICHW., Vög. Afr. III. p. 724 (1904—1905).

♀. Assab, 3. IV. 1907.

Saxicola isabellina, CRETZSCHM.

Saxicola isabellina, CRETZSCHM., Atlas, p. 52 (1826); REICHW., Vög. Afr. III. p. 721 (1904—1905).

♀. Assab, 15. III. 1907.

Saxicola pleschanka (LEPECH.)

Motacilla pleschanka, LEPECH., Nov. Comm. Petr. XIV. p. 503 tab. 14 (1770); REICHW., Vög. Afr. III. p. 728 (1904—1905).

♂. Fatmah Island, 5. IV. 1907.

♀. Assab, 3. IV. 1907.

Saxicola leucopygia (BREHM)

Vitiflora leucopygia, BREHM, Vogelf. p. 225 (1855).

Saxicola leucopygia (BREHM), REICHW., Vög. Afr. III. p. 717 (1904—1905).

♂ ♀. Assab, 26. I. 18. II. 1907.

2 ♂. Gibdo, 19. IV. 1907.

Saxicola deserti, TEMM.

Saxicola deserti, TEMM., Pl. Col. tab. 359 fig. 2 (1825); REICHW., Vög. Afr. III. p. 726 (1904—1905).

5 ♂. Assab, 11—26. I. 1907.

Cercomela lypura (HEMPR. & EHRB.)

Sylvia lypura, HEMPR. & EHRB., Symb. Phys. fol. ee. (1828).

Cercomela lypura (HEMPR. & EHRB.), REICHW., Vög. Afr. III. p. 712 (1904—1905).

8 ♂, 2 ♀. Assab, I—II. 1907.

2 ♀. Gibdo, 20—21. IV. 1907.

Cercotrichas podobe (MÜLL.)

Turdus podobe, St. MÜLL., LINNÉ, Nat. Syst. Suppl. p. 145 (1776).

Cercotrichas podobe (MÜLL.), REICHW., Vög. Afr. III. p. 763 (1904—1905).

3 ♂, 2 ♀. Margebla, I—III. 1907.

Fam. SYLVIIDAE.

Agrobates minor (CAB.)

Aedon minor, CAB., Mus. Hein. I. p. 39 (1850).

Agrobates galactodes minor (CAB.), REICHW., Vög. Afr. III. p. 655 (1904—1905).

2 ♂, 1 ♀. Margebla, 20. I., 10. II., 24. III. 1907.

1 ♂, 2 ♀. Gibdo, 20—28. IV. 1907.

Agrobates familiaris (MÉNÉTR.)

Sylvia familiaris, MÉNÉTR., Cat. Rais. Cauc. p. 32 (1832).

Agrobates familiaris (MÉNÉTR.), REICHW., Vög. Afr. III. p. 656 (1904—1905).

♂. Gibdo, 21. IV. 1907.

Acrocephalus streperus (VIEILL.)

Sylvia strepera, VIEILL., Nouv. Dict. XI. p. 182 (1817).

Acrocephalus streperus (VIEILL.), REICHW. Vög. Afr. III. p. 586 (1904—1905).

♀. Gibdo, 21. IV. 1907.

Acrocephalus Griseldis (HARTL.)

Calamoherpe griseldis, HARTL., Abh. Bremen 1891. p. 7.

Acrocephalus griseldis (HARTL.), REICHW., Vög. Afr. III. p. 585 (1904—1905).

♀. Gibdo, 27. IV. 1907.

The description of this rare bird is as follows: General colour above greyish-brown; throat and crop pure white; breast, abdomen under tail-

coverts, and under wing-coverts white with yellowish tinge; bill and feet dark horn-colour, the base of mandible yellowish. Second primary equal to the fourth; third somewhat longer. Total length about 165, wing 80, tail 68, culmen 18, tarsus 25 mm.

Acrocephalus stentoreus (HEMPR. & EHRB.)

Curruca stentorea, HEMPR. & EHRB., Symb. Phys. fol. bb. (1828).

Acrocephalus stentoreus (HEMPR. & EHRB.), REICHW., Vög. Afr. III. p. 586 (1904—1905).

♂. Assab, 29. I. 1907.

Hypolais languida (HEMPR. & EHRB.)

Curruca languida, HEMPR. & EHRB., Symb. Phys. fol. cc. (1828).

Hypolais languida (HEMPR. & EHRB.), REICHW., Vög. Afr. III. p. 646 (1904—1905).

♀. Margebla, 18. III. 1907.

Hypolais pallida (HEMPR. & EHRB.)

Curruca pallida, HEMPR. & EHRB., Symb. Phys. fol. bb (1828).

Hypolais pallida (HEMPR. & EHRB.), REICHW., Vög. Afr. III. p. 646 (1904—1905); KITTENB., Aquila, 1907. p. 178.

♀. Gibdo, 20. IV. 1907.

Sylvia atricapilla (L.)

Motacilla atricapilla, LINNÉ, Syst. Nat. p. 187 (1758).

Sylvia atricapilla (L.), REICHW., Vög. Afr. III. p. 650 (1901—1905).

This species is not represented in this collection, but the bird was observed by KATONA on the end of March at Margebla.

Sylvia nisoria (BECHST.)

Motacilla nisoria, BECHST., Naturg. Deutschl. IV. p. 580 (1795).

Sylvia nisoria (BECHST.), REICHW., Vög. Afr. III. p. 654 (1904—1905); KITTENB., Aquila, 1907. p. 177.

♂. Margebla, 24. III. 1907.

2 ♂, 1 ♀. Assab, 3. IV. 1907.

Sylvia nana (HUMPR. & EHRB.)*Curruca nana*, HEMPR. & EHRB., Symb. Phys. fol. cc. (1828).*Sylvia nana* (HEMPR. & EHRB.), REICHW., Vög. Afr. III. p. 653 (1904—1905).

2 ♂, 1 ♀. Assab, I—II. 1907.

Phylloscopus trochilus (L.)*Motacilla trochilus*, LINNÉ, Syst. Nat. p. 188 (1758).*Phylloscopus trochilus* (L.), REICHW., Vög. Afr. III. p. 644 (1904—1905).

♀. Margebla, 24. III. 1907.

Phylloscopus rufus (BECHST.)*Motacilla rufa*, BECHST., Naturg. Deutschl. IV. p. 682 (1795).*Phylloscopus rufus* (BECHST.), REICHW., Vög. Afr. III. p. 643 (1904—1905); KITTENB., Aquila, 1907. p. 177.

♂. Margebla, 23. II. 1907.

Sylvietta leucopsis (REICHW.)*Sylviella leucopsis*, REICHW., Orn. Centrbl. 1879. p. 114.*Sylvietta leucopsis* (REICHW.), REICHW., Vög. Afr. III. p. 629 (1904—1905).

♀. Margebla, 27. III. 1907.

Prinia gracilis (LICHST.)*Sylvia gracilis*, LICHST., Verz. Doubl. p. 34 (1823).*Prinia gracilis* (LICHST.), REICHW., Vög. Afr. III. p. 595 (1904—1905).

2 ♂. Margebla, II—III. 1907.

Spiloptila danakilensis n. subsp.

Similar to *Sp. rufifrons* (RÜPP.), but lighter and rather greyer above, the red frontal patch smaller, and not extending above the eyes as in *Sp. rufifrons*. Total length about 120, wing 42, tail 54, culmen 11, tarsus 20 mm.

♂. Margebla, 24. III. 1907. *Type*.