

- M'INTOSH. 1874. Trans. Zool. Soc. vol. ix. part vii. "On British Annelida."  
 —. 1885. 'Challenger' Reports, Zoology, vol. xii. "Annelida Polychæta."  
 —. 1900. 'Monograph of British Annelida.—Part II. Polychæta.' Ray Society.  
 NORMAN. 1890. Ann. & Mag. Nat. Hist., May 1890.  
 DE QUATREFAGES. 1865. 'Histoire des Annelés,' vol. i.  
 SARS, G. O. 1873. Nyt Mag. f. Naturv. xix. "Bidrag til Kunsdab om Christianiafjordens Fauna.—III. Annelida." (From MSS. of M. Sars.)  
 ST. JOSEPH. 1888. Annales des Sciences Naturelles, ser. vii. t. 5.  
 THÉEL. 1879. "Annélides Polychètes des Mers de la Nouvelle-Zemble," Svenska Vet.-Akad. Handl., Band xvi. No. 3. Stockholm.  
 TRAUTZSCH. 1889. Archiv f. Naturg. 55. "Zur Kenntniss der Polynoiden von Spitzbergen."  
 TREADWELL. 1903. Bulletin of the U.S. Fish Commission, vol. xxiii. part 3. "Polychætous Annelids of the Hawaiian Islands."

## EXPLANATION OF PLATE VI.

- Fig. 1. Head of *Eunoa tritoni*, M'Intosh. Enlarged.  
 Fig. 2. Tip of dorsal bristle of *Evarne impar*, Johnst., var. Zeiss obj. D, oc. 2.  
 Fig. 3. Mid dorsal bristle of *Eucranta villosa*, Mgrn. Zeiss obj. D, oc. 2.  
 Fig. 4. Superior ventral bristle of ditto. Zeiss obj. D, oc. 2.  
 Fig. 5. Inferior ventral bristle of ditto. Zeiss obj. F, oc. 2.

XIX.—*Descriptions of new Batrachians from the Andes of South America, preserved in the British Museum.* By G. A. BOULENGER, F.R.S.

(Published by permission of the Trustees of the British Museum.)

*Hyla melanopleura.*

Tongue circular, entire and slightly free behind. Vomerine teeth in two groups or short transverse series between the rather large choanæ. Head moderate, broader than long; snout short, rounded, as long as the orbit; canthus rostralis obtuse, loreal region oblique, concave; nostril equally distant from the eye and from the tip of the snout; interorbital space as broad as the upper eyelid; tympanum distinct, two-thirds the diameter of the eye. Fingers one-fourth webbed, disks smaller than the tympanum; male with a projecting rudiment of pollex; toes three-fourths webbed; subarticular tubercles moderately prominent; a feeble tarsal fold. The tibio-tarsal articulation reaches between the eye and the tip



of the snout ; tibia half the length of head and body. Skin smooth, belly and lower surface of thighs granulate. Greyish or reddish brown above, sides blackish ; the back may be spotted or dotted with brown, the sides dotted with white ; upper lip white ; limbs with irregular dark cross-bands ; lower parts dirty white, sometimes speckled with dark brown. Male with a subgular vocal sac.

From snout to vent 50 mm.

Several specimens from Huancabamba, E. Peru, above 3000 feet, from the collection of Mr. E. Boettger.

*Phyllomedusa loris.*

Tongue cordiform, slightly nicked behind. Vomerine teeth in two small groups between the choanæ. Snout as long as the orbit, vertically truncate at the end ; canthus rostralis obtuse, loreal region oblique ; eyes directed obliquely forwards ; interorbital space broader than the upper eyelid ; tympanum half the diameter of the eye. Fingers with a slight rudiment of web, first shorter than second ; toes webbed at the base, first and second equal ; disks of fingers as large as the tympanum, of toes a little smaller ; subarticular tubercles moderately prominent ; inner metatarsal tubercle small, elliptic. The tibio-tarsal articulation reaches the tip of the snout ; tibia  $\frac{4}{5}$  the length of head and body. Skin smooth, granulate on the belly and under the thighs ; parotoids feebly developed ; heel with a small triangular dermal appendage. Lilac above (in spirit) with a few dark dots ; humerus, four inner fingers, thigh, except a narrow lilac streak, inner toes, and lower parts yellow.

From snout to vent 46 mm.

A single specimen from El Topo, R. Pastaza, E. Ecuador, 4200 feet, from the collection of Mr. M. G. Palmer.

*Bufo leptoscelis.*

Crown with bony ridges, including a parietal obliquely directed inwards ; snout truncate, slightly projecting ; loreal region nearly vertical, concave ; interorbital space broader than the upper eyelid ; tympanum very distinct, three-fourths the diameter of the eye. Fingers rather long and slender, obtuse, first longer than second ; toes barely half webbed, obtuse, with single subarticular tubercles ; two small metatarsal tubercles ; no tarsal fold. Tarso-metatarsal articulation reaching far beyond the tip of the snout ; tibia half the length of head and body. Upper parts with small conical



tubercles, more crowded and spinose on the sides; parotoids very prominent, subtriangular, two-thirds the length of the head. Uniform pale brown above, the parotoids darker; yellowish beneath, belly dotted with brown.

From snout to vent 55 mm.

A single specimen from Santo Domingo, Carabaya, S.E. Peru, 6500 feet, from the collection of the late Mr. G. Ockenden.

*Hylodes ockendeni.*

Tongue oval, entire or indistinctly nicked behind. Vomerine teeth in two oblique oval groups just behind the level of the choanæ. Snout rounded, as long as the orbit, with moderately strong, curved canthus and very oblique, concave loreal region; nostril near the tip of the snout; interorbital space hardly as broad as the upper eyelid; tympanum very indistinct, not half the diameter of the eye. Fingers and toes moderate, the tips dilated into large, broad disks; first finger not extending as far as second; scarcely a rudiment of web between the toes; subarticular tubercles well developed but small; a small, oval inner metatarsal tubercle. The tibio-tarsal articulation reaches the anterior border of the eye, or between the eye and the nostril; tibia half the length of head and body. Skin smooth. Pale pinkish brown above, with small scattered black spots, with or without a large brown blotch, or three brown blotches on the back; a narrow light vertebral line may be present; a dark bar between the eyes, and an oblique black streak in front of and behind the eye; two or three oblique brown bars on the tibia; lower parts white.

From snout to vent 34 mm.

Three specimens from La Union, Rio Huacamayo, Carabaya, S.E. Peru, 2000 feet, from the collection of the late Mr. G. Ockenden.

*Hylodes ventrimarmoratus.*

Tongue large, subcircular, entire. Vomerine teeth in two oblique oval groups behind the level of the choanæ. Snout rounded, as long as the orbit, with very feeble, curved canthus and very oblique, concave loreal region; nostril near the tip of the snout; interorbital space as broad as the upper eyelid; tympanum very indistinct, not half the diameter of the eye. Fingers and toes moderate, the tips dilated into large, broad disks; first finger not extending as far as second; toes free; subarticular tubercles small, feebly



prominent; a small, oval inner metatarsal tubercle. The tibio-tarsal articulation reaches the eye; tibia half the length of head and body. Upper parts rugose with small warts, lower parts smooth. Grey above, with blackish symmetrical markings, forming a large X on the back, and a subtriangular blotch between the eyes; upper lip with dark bars radiating from the eye; limbs with dark cross-bands, the front of the thighs with black and white bars, the back of the thighs black, with or without large white spots; throat and lower surface of thighs yellowish, belly and flanks white with large black spots and marblings.

Total length 37 mm.

A single adult specimen from Chanchamayo, E. Peru, 2600 feet, from the collection of Mr. C. Schunke, and an adult and two very young from El Topo, R. Pastaza, E. Ecuador, 4200 feet, from the collection of Mr. M. G. Palmer.

*Hylodes tæniatus.*

Tongue oval, nicked behind. Vomerine teeth in two oblique oval groups behind the level of the choanæ. Snout rounded, as long as orbit, with strong, nearly straight canthus and oblique, concave loreal region; nostril near the tip of the snout; interorbital space as broad as the upper eyelid; tympanum distinct, one-third the diameter of the eye. Fingers and toes rather short, the tips dilated into large, broad disks; first finger not extending as far as second; a slight rudiment of web between the toes; subarticular tubercles well developed; a small oval inner and a very small rounded outer metatarsal tubercle. The tibio-tarsal articulation reaches the tip of the snout; tibia nearly two-thirds the length of head and body. Skin smooth, the belly very indistinctly granulate. Brown above, darker on the sides; a blackish, light-edged streak on each side of the back, from the eye to above the groin, gradually converging towards its fellow; a dark brown streak, with a fine median light line, from the tip of the snout to the sacral region; a dark streak from the upper eyelid to the scapular region; a canthal streak and two bars below the eye blackish; limbs with oblique dark cross-bands, heel whitish; white beneath, throat speckled with brown.

From snout to vent 27 mm.

A single specimen from Noananoa, Rio San Juan, Choco, S.W. Colombia, from the collection of Mr. M. G. Palmer.



*Hylodes palmeri.*

Tongue oval, nicked behind. Vomerine teeth in two feeble oblique groups behind the level of the choanæ. Snout rounded, as long as orbit, with moderately strong, nearly straight canthus and oblique, concave loreal region; nostril near the tip of the snout; interorbital space as broad as the upper eyelid; tympanum distinct, one-third diameter of eye. Fingers and toes moderate, the tips dilated into large, broad disks; first finger not extending as far as second; toes quite free; subarticular tubercles well-developed but small; a small, oval inner and a very small, rounded outer metatarsal tubercle. The tibio-tarsal articulation reaches between the eye and the tip of the snout; tibia three-fifths the length of head and body. Skin smooth, belly feebly granulate. Greyish olive above, with small dark brown dots and a  $\Lambda$ -shaped dark marking on the anterior part of the back; upper lip with dark vertical bars; a dark streak below the canthus rostralis; limbs with dark cross-bands; lower parts dirty white, throat marbled with grey, belly with grey vermiculations.

Two specimens from Pueblo Rico, Choco, S.W. Colombia, 5200 feet, from the collection of Mr. M. G. Palmer.

*Hylodes margaritifer.*

Tongue oval, indistinctly nicked behind. Vomerine teeth in two small rounded groups behind the level of the choanæ. Snout truncate, very prominent, as long as orbit, with strong, curved canthus and oblique, concave loreal region; nostril near the tip of the snout; interorbital space broader than the upper eyelid; tympanum distinct, one-fourth diameter of eye. Fingers and toes moderate, the tips dilated into large disks, those of the fingers broader and truncate; first finger considerably shorter than second; toes quite free; subarticular tubercles moderate; two feebly prominent metatarsal tubercles, inner oval, outer round. The tibio-tarsal articulation reaches between the eye and the tip of the snout; tibia three-fifths the length of head and body. Skin smooth, with scattered tubercles, which are subconical on the head and back, and larger, white, pearl-like on the throat and belly; a larger, conical tubercle on the upper eyelid and another on the heel. Yellowish above and beneath, above with dark brown symmetrical markings and the tubercles crimson.

From snout to vent 15 mm.

Two specimens from El Topo, R. Pastaza, E. Ecuador, 4200 feet, from the collection of Mr. M. G. Palmer.



*Edalorhina nasuta.*

Vomerine teeth in two feeble oblique series behind the level of the choanæ. Head much depressed; snout pointed, ending in a pointed dermal appendage which is at least half as long as the eye, canthus rostralis strong; loreal region very oblique, concave; nostril nearer end of snout than eye; interorbital space as broad as the upper eyelid; tympanum very indistinct, smaller than the eye. First and second fingers equal; toes with a slight rudiment of web; sub-articular tubercles strong; two small metatarsal tubercles. The tibio-tarsal articulation reaches the shoulder or the tympanum. Upper eyelid with conical tubercles; a strong fold behind the eye, descending obliquely to the middle of the side; a curved ridge between the eyes and a **X**-shaped one on the scapular region. Grey or pale brown above, with darker markings; a broad black band behind the eye, expanding into a large black blotch covering the side of the belly and the pubic region; lumbar region orange, with a large oval black spot; throat and middle of belly white; lower surface of limbs marbled black and white.

From snout to vent 38 mm.

Three specimens from Huancabamba, E. Peru, above 3000 feet, from the collection of Mr. E. Boettger.

*Hylixalus chocoensis.*

Very closely allied to *H. bocagii*, Espada, but tympanum scarcely distinct and hind limbs longer, the tibio-tarsal articulation reaching the tip of the snout and the tibia measuring a little more than half the length of head and body. Blackish grey above, with a rather indistinct grey streak along each side of the back and a fine grey vertebral line; upper lip with a row of small white spots; a white spot on the upper surface of the arm, near its base; a black bar across the thigh and another across the tibia; lower parts white, with a few blackish spots or marblings.

From snout to vent 26 mm.

A single specimen from Noananoa, Rio San Juan, Choco, S.W. Colombia, about 100 feet, from the collection of Mr. M. G. Palmer.

*Hylixalus collaris.*

Tongue entire or indistinctly nicked. Head as in *H. bocagii*, but tympanum very indistinct or quite hidden. First and second fingers equal; toes half webbed, the web produced as



a narrow fringe to the terminal disks; two metatarsal tubercles. The tibio-tarsal articulation reaches the eye; tibia half length of head and body, or less. Dark grey to blackish brown above, with more or less distinct darker symmetrical markings on the back and cross-bands on the limbs; a light streak sometimes present on the side, ending in the groin; lower parts yellowish white, with a dark brown bar across the throat, or entirely dark brown or blackish.

From snout to vent 35 mm.

Several specimens from Merida, 5200 feet, and Rio Albireggas, 11,300 feet, Venezuela, from the collection of Mr. S. Briceño.

## XX.—*New or little-known Ethiopian Hemiptera.*

By E. BERGROTH, C.M.Z.S.

THE Entomological Research Committee of the British Colonial Office having submitted to me for examination a number of Heteropterous Hemiptera sent in by the Committee's collectors from various parts of Africa, I have found among them some new or insufficiently known species, which are described or commented upon in this paper.

### Fam. Coptosomatidæ.

#### *Ceratocoris dama*, sp. n.

Late ovatus, valde convexus, niger, supra versicoloriter cæruleo- et aurichalceo- et cupreo-resplendens, maculis callosis parvis irregularibus flavis remote conspersus, capite subtus flavo, fascia intra-oculari basali intus angustata et abbreviata, excavatione antennali ac cornubus maris nigris, dimidio externo horum dense confluentur flavo-variegato, pectore cinereo, opaco, lateribus propleurarum late subnitidulis, fusco- et flavo-variegatis, vitta media angusta curvata anteriore propleurarum nitida fusca; mesosterno medio nitido, nigro, acetabulis omnibus flavis, limbo lato ventris intra spiracula extenso flavo, in segmentis quattuor mediis maculam majusculam subquadrata nigram inter spiracula et latera includente, spiraculis, linea transversa impressa pone hæc margineque ipso laterali ventris nigris, hoc ad apicem segmentorum interrupto, segmento ultimo ventrali medio flavo. Caput breve et latissimum, apici pronoti æque latum, medio declive, longitudine sua media fere triplo et dimidio latius, supra sat remote punctulatum, subtus sublæve, pro articulo primo antennarum recipiendo late excavatum, superne præter maculas parvas conspersas vitta mox intra marginem externum jugorum secundum



Boulenger, George Albert. 1912. "Descriptions of new Batrachians from the Andes of South America, preserved in the British Museum." *The Annals and magazine of natural history; zoology, botany, and geology* 10, 185–191.

**View This Item Online:** <https://www.biodiversitylibrary.org/item/53333>

**Permalink:** <https://www.biodiversitylibrary.org/partpdf/51259>

**Holding Institution**

Smithsonian Libraries and Archives

**Sponsored by**

Smithsonian

**Copyright & Reuse**

Copyright Status: Public domain. The BHL considers that this work is no longer under copyright protection.

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.