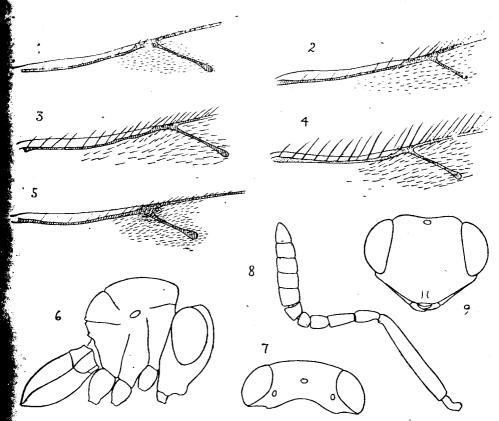
SYNOPSIS OF THE ETHIOPIAN AND INDO-MALAYAN SPECIES OF MICROPHANURUS (SERPHOIDEA, SCELIONIDAE).

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This paper brings together all the species of *Microphanurus* from the Ethiopian and Indo-Malayan regions that I have written about during the last eight years. I have found that the fauna of neither region could be studied in isolation if a proper understanding of the taxonomic relationships and host-preferences of the genus were simed at.

The key contains all the species from the regions concerned of which the types or t least authentically named specimens are in the British Museum. Two new African becies are described.

For the identification of the Hemipteron, Atelocera stictica, Westwood, and for ther information I am much indebted to Mr. W. E. China.



Figs. 1-9. 1. Microphanurus enceladus, Nixon, part of fore wing, Q; 2. M. striaticeps, Dodd, part of fore wing, Q; 3. M. maro, Nixon, part of fore wing, Q; 4. M. seychellensis, Kieffer, part of fore wing, Q; 5. M. larides, sp. n., part of fore wing, Q; 6. Same, body, lateral, Q; 7. Same, head, from above, Q; 8. Same, antenna, Q; 9. Same, head, from in front, Q.

SUBFAMILY TELENOMINAE.

Genus Microphanurus, Kieffer.

Microphanurus merges gradually into Telenomus, Haliday, though as a rule not difficult to place a species in one or the other genus. I have accepted the presor absence of hairs on the eyes as the determinative factor for separating the genera, Telenomus having hairy eyes. This is not, however, always a reliable criterior some of the smaller species of Microphanurus, such as crotius, Nixon (see No. 2 have the eyes feebly hairy. The differences between the two genera will be four summed up in my revision of the African Telenominae (1935, p. 75). So far as known, Microphanurus is essentially parasitic on the eggs of Hemiptera, who Telenomus chiefly attacks those of Lepidoptera.

The hosts of about half of the 24 species listed are known. Some o them important economic pests, such as Nezara viridula, L., which is attacked by the species of Microphanurus: basalis, Woll. (=megacephalus, Ashm.), sipius, Nixi and aloysii-sabaudiae, Fouts. It is probable hat M. striaticeps, Dodd, is also parasite of the same insect.

M. mahensis, Kieffer, from the Seychelles is not mentioned below, since in opinion it is a true Telenomus in which genus Kieffer originally described it.

Key to the Species (99).

- - Front and middle coxae not contiguous, there being a free, though often narrow surface of mesosternum between them.....
- 2. Mesonotum posteriorly with sharply defined parapsidal furrows, somewhat indistinct in those species which show a considerable amount of longituding rugosity posteriorly on mesonotum. (Spp. with the frons somewhat bulging between the lowest point of the eye and the antennal insertions).

 Mesonotum posteriorly without a trace of parapsidal furrows.
- 3. Posterior half of mesonotum strongly shining and more or less unsculptured rugose-punctate on anterior half. (Vertex with an almost completely differentiated ridge, there being traces of micro-sculpture along its actual edge).
- - Mesonotum with strong rugosities which posteriorly become longitudinal.....6

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	Striation of tergite 2 fine, somewhat weak, the intervals smooth and the general surface very shining
	Striation of tergite 2 slightly less fine, the intervals broken and discontinous so that the sculpture is almost reticulate-striation; general surface dull
•	Mesonotum, more especially posteriorly, with indications of longitudinal rugosity hairs of the subcostalis pale and thin and projecting only slightly beyond the edge of the wing (fig. 1). (Mandible large and wide)
	(8) enceladus, Nixon
	Mesonotum without a trace of longitudinal rugosity, the sculpture consisting of even scaly-reticulation with feebly indicated, very indistinct punctures hairs of the subcostalis dark brown, moderately thick and projecting well beyond the edge of the wing. (Mandible small and narrow)
	Segments 2-4 of the flagellum extremely short and strongly transverse, the apex of each closely embracing the base of the next; segment 1 of the hind tarsus as long as the following segments together. (Antennal club sharply tapering to apex, the apical segment very small)(3) mopsus, Nixon
	These segments much longer and at least 2 not at all transverse; the segments not thus closely articulated; segment 1 of the hind tarsus distinctly shorter than the following segments together
•	Radicle of the scape at least \(\frac{1}{3} \) as long as the scape. (Spp. with the radicle black; oblique depression of the mesopleura bounded in front by a strong ridge which extends as far as the middle coxa; hairs of the subcostalis projecting well beyond the edge of the wing)
	Radical of the scape considerably less than $\frac{1}{3}$ the length of the scape11
•	Radicle ½ as long as the scape; surface on each side of the anterior ocellus with strongly raised rugosities on which is superimposed fine scaly-reticulation (10) carinifrons, Cameron
	Radicle \(\frac{1}{3} \) as long as the scape; surface here covered with fine, even scaly-reticulation
•	Scape in a lateral view of the head very distinctly over-reaching the top of the vertex. (Head from in front strongly transverse, elliptical; flagellum brown throughout, evenly and rather feebly thickened to apex, without a differentiated club; mesonotum and scutellum strongly flattened and with a fine shagreened sculpture which on the mesonotum is dullest medially; segment 3 of the hind tarsus only about half as long as 5)(2) sipius, Nixon
	Scape, thus seen, not overreaching the top of the vertex
•	Vertex with a completely or almost completely differentiated margin forming a continuation of the postorbital carina
	Vertex without such a carina, at most very sharply angled
•	Frons in greater part smooth and shining; tergite 2 very slightly longer than wide. (Frons strongly bulging between the lowest point of the eye and the antennal insertions, delicately scaly-reticulate, more especially below, against eye-margin; on each side of the anterior ocellus a longitudinal row of about 6 sharply defined but very small punctures; segment 4 of the flagellum almost spherical, clearly nearer in size to 3 than to 5 so that the club is fairly sharply differentiated as 5-segmented; hairs of the subcostalis very long (fig. 4)) (24) seychellensis, Kieffer
	Frons sculptured all over

- 14. From not bulging between the lowest point of the eye and the antennal inc tions; sculpture of frons anterior to median ocellus consisting of subscal reticulation with a well-marked transverse tendency; oblique depression the mesopleura margined in front as far as the middle coxa; segment 1 of

- G. E. J. NIXON.

15. Upper edge of the posterior wall of the middle part of the postscutellum closely approximated to the posterior margin of the scutellum that the post scutellum bears no transverse or subtriangular rugose area medially; margin alis and base of stigmalis enveloped in a faint cloud......(14) larides, sp. Structure of the postscutellum different medially, always showing here a trans verse or subtriangular, strongly rugose area; marginalis and base of stigmal

16. Sculpture of mesonotum very fine, consisting of even scaly-reticulation with without feebly indicated punctures. (Spp. with segment 2 of the hind tarsu not longer than 5; hairs of the subcostalis projecting far beyond the edge d the wing).....group of suranus, Nixon. 17 Sculpture of mesonotum different, at its finest consisting of minute raised point anteriorly and posteriorly with distinct indication of longitudinal rugosity but 17. Segments 1-4 of the flagellum blackish; segment 2 of the hind tarsus distinctly shorter than 5; tergite 2 with strong striation covering most of its surface....

Segments 1-4 of the flagellum yellowish; segment 2 of the hind tarsus as long as 5; tergite 2 with only the merest trace of striation mid-basally.........

Oblique depression of the mesopleura bounded in front by a carina; sculpture of the mesonotum much coarser but posteriorly sometimes showing coarse longitudinal rugosity; size larger, at least 1.2 mm......20

Eyes without hairs. (Sp. of stouter build than crotius and with the head more

coarsely rugose; hind tarsus 2 about twice as long as 5. (No trace of an extra carina on the cheek; hairs of the mesonotum so short and fine that although very numerous they are not at first sight readily visible)

sharply pointed; mesonotum coarsely rugose; hind tarsus 2 very distinctly less than twice 5. (Usually a well defined carina between that bordering the

18. Oblique depression of the mesopleura not bounded in front by a carina sculpture of the mesonotum fine, over most of its anterior surface consisting of minute raised points which posteriorly give way to fine striation; small spp. not more than 1 mm. (Hairs of the subcostalis projecting far beyond

the edge of the wing).....

19. Eyes with minute hairs. (Sp. having much of the facies of Telenomus)......

without such a cloud.....

flagellum only about twice as long as wide at apex. (Vertex unusually sharp cut away behind the not quite completely differentiated margin, fitting close on to the thorax like a cap).....(13) stoicus, Nico Frons bulging here, its sculpture anterior to the median ocellus consisting strong rugae; oblique depression of the mesopleura not margined; segment of the flagellum nearly 4 times as long as apically wide.....

(12) barrowi, Dod.

(15) suranus, Nixon

(23) crotius, Nixon

(17) danaus, Nixon

.....(22) basalis, Wollaston

- 20. Mandible rather small; sculpture of mesonotum very evenly and not particularly
- Mandible decidedly large, with three teeth as in danaus but these long, conspicuous,

transverse).....

- Mesonotum coarsely rugose-reticulate and with no obvious longitudinal element posteriorly; hairs of the mesonotum whitish, long, semidecumbent, almost setiform and very conspicuous everywhere; scutellum somewhat flattened, without a trace of a division into an anterior and posterior area; mandibles in the closed position forming a mass like two clasped hands and projecting well away from the head (radicle of scape black)......(18) painei, Ferrière

- From here with some strong raised rugosities in addition to the fine sculpture. (Crest of the scutellum well developed, though very irregular, the division into two areas well marked; radicle of the scape yellow)...(21) priapus, Nixon

Microphanurus striaticeps, Dodd.

Telenomus striaticeps, Dodd, 1919, Trans. ent. Soc. Lond., 1919, p. 355.

Microphanurus carinifrons, Fouts, 1934, Mem. Soc. ent. ital., (13) 1, p. 105, 32.

Microphanurus striaticeps, Dodd, Nixon, 1935, Trans. R. ent. Soc. Lond., 83, p. 100. Microphanurus striaticeps, Dodd, Nixon, 1938, Ann. Mag. nat. Hist., (11) 2, 125.

AFRICA: Brit. Sudan, ex eggs of Acanthomia brevirostris, Stål (Coreidae) and conoscelis versicolor, F. (Pent.); Italian Somaliland (carinifrons), ex eggs of Nezara and also from branch of cotton infested with eggs of Nezara; Nyasaland; Cape ovince. India: Punjab (Nixon, 1938).

Fouts' description is very careful and makes it fairly certain that his species is ntical with striaticeps, Dodd.

Microphanurus sipius, Nixon.

Microphanurus, sipius, Nixon, 1936, Proc. R. ent. Soc. Lond., (B) 5, p. 133.

AFRICA: Kenya Colony, ex eggs of Nezara viridula, L.

This is an aberrant species and is only provisionally placed in *Microphanurus*. curious flattened appearance and long scape together with the very slender sellum make it an outstanding species.

Microphanurus mopsus, Nixon.

Microphanurus mopsus, Nixon, 1935, Trans. R. ent. Soc. Lond., 83, p. 97.

AFRICA: Cape Province; Abyssinia. Host unknown.

A species having the facies of typical *Microphanurus*, but isolated and most stinctive on account of the structure of the antenna.

4. Microphanurus trophonius, Nixon.

Microphanurus trophonius, Nixon, 1938, Ann. Mag. nat. Hist., (11) 2, p. 127.

Sumatra: Asahan, ex eggs of Hemipteron, probably Reduvildae, on Uncar. Gambir, Roxb.

By comparison with the other species dealt with in this paper, this is a modistinctive species owing to the absence of sculpture on the posterior half of the mesonotum.

5. Microphanurus maro, Nixon.

Microphanurus maro, Nixon, 1935, Trans. R. ent. Soc. Lond., 83, 99.

Africa: Cape Province; Natal. Host unknown.

6. Microphanurus menerles, Nixon.

Microphanurus menecles, Nixon, 1935, Trans. R. ent. Soc. Lond., 83, p. 98. Africa: Cape Province; Natal. Host unknown.

7. Microphanurus biblis, sp. n.

Microphanurus menecles, Nixon, loc. cit. (partim).

This species, which I now describe as new, was formerly recorded by me menecles; it differs from menecles as follows:—

Q. Head less transverse and less sharply cut away behind the eyes (in menecle it is cut away almost at right angles to the long axis of the body). Mandible much larger and wider, without clearly defined teeth (in menecles, the mandible is weakly tridentate). For other differences, see key.

Size larger, 2 mm., approx.

Africa: Natal, Kłoof, 1,500 ft., ix.1926, 1 \circlearrowleft , the type (R. E. Turner); Cap Province, Ceres, iii.1925, 1 \circlearrowleft (R. E. Turner).

Type in the British Museum.

With its large mandibles, this species is extremely like *enceladus*, Nixon. It differs from this species in having a more or less completely differentiated vertical margin and the pubescence of the wing longer.

8. Microphanurus enceladus, Nixon.

Microphanurus enceladus, Nixon, 1935, Trans. R. ent. Soc. Lond., 83, p. 99. AFRICA: Cape Province. Host unknown.

'9. Microphanurus vindicius, Nixon.

Microphanurus vindicius, Nixon, 1938, Ann. Mag. nat. Hist., (11) 2, p. 128.

JAVA: Mt. Salak; Wonogiri Dist., ex eggs of Dasynus manihotis, Blöte (Coreidae).

10. Microphanurus carinifrons, Cameron.

Immsia carinifrons, Cameron, 1913, Ind. For. Rec., 4, p. 105.

Telenomus carinifrons, Cameron, Dodd, 1920, Trans. R. ent. Soc. Lond., 1920, p. 355.

Microphanurus carinifrons, Cameron, Nixon, 1938, Ann. Mag. nat. Hist., (11) 2, p. 138.

India: Dehra Dun. Host unknown.

Microphanurus aloysii-sabaudiae. Fouts.

Microphanurus aloysii-sabaudiae, Fouts, 1930, Boll. Soc. ent. ital., 62, p. 118. Microphanurus aloysii-sabaudiae, Fouts, Nixon, 1935, Trans. R. ent. Soc. Lond.,

Microphanurus artabazus, Nixon, 1938, Ann. Mag. nat. Hist., (11) 2, p. 131. wn. nov.)

AFRICA: Italian Somaliland, ex eggs of Nezara viridula, L., and Acrosternum Midoconspersa, Stål; Uganda; Cape Province; Belgian Congo. MALAYA: Setapak rlabazus), ex eggs of Scotinophara sp. (Pentatomidae); Serdang (artabazus).

ia. Microphanurus artabazus. Nixon.

I have already sunk this species above under aloysii-sabaudiae. A careful examinaof all the material in the British Museum collections has convinced me that the derences I pointed out in 1938 are not valid. The less convex appearance of the sonotum of artabazus is probably due to mechanical agency and is not equally parent in all specimens. The more sharply angled vertex of artabazus seems at sight to be significant but I have seen individuals of aloysii-sabaudiae in which the gulation is hardly less well defined.

The wide range of aloysii-sabaudiae as now defined is perhaps disconcerting, but to not think that locality alone can be accepted as a criterion for specific distinction.

icrophanurus barrowi, Dodd.

Telenomus barrowi, Dodd, 1920, Trans. ent. Soc. Lond., 1920, p. 356. Microphanurus barrowi, Dodd, Nixon, 1938, Ann. Mag. nat. Hist., (11) 2, p. 137. INDIA: bred apparently from egg of hawk-moth (Sphingidae).

Only the type female is known. It should not be overlooked that what was taken the egg of a moth may have been in reality that of a bug.

Microphanurus stoicus, Nixon.

Microphanurus stoicus, Nixon, 1938, Ann. Mag. nat. Hist., (11) 2, p. 135.

MALAYA: Pahang, ex eggs of Hemipteron.

Microphanurus larides, sp. n.

Black. Radicle, scape, pedicel and first 4 segments of the flagellum pale rownish yellow. Legs, except the coxae, yellowish.

Head, from in front, triangular (fig. 9). Mandible small, feebly tridentate. Frons ever most of its medial part with raised though not strong rugosity, having well marked transverse elements; towards the median ocellus and to the sides of this the urface is finely and evenly scaly-reticulate, without a trace of punctures; no trace. a bulge between the lower, inner margin of the eye and the antennal insertions, the ad very strongly transverse as seen from above (fig. 7). Vertex very sharply ngled between the posterior ocelli but no trace of a differentiated margin here. Intenna (fig. 8); radicle very short. Thorax very strongly convex, raised high above he level of the abdomen and giving the insect a very dumpy appearance (fig. 6). esonotum with very fine, close, uneven striation on about posterior half; anteriorly his breaks up into minute raised rugosities; parapsidal furrows absent. Scutellum hining, feebly scaly-reticulate. Postscutellum medially with a transverse, shining, Plate, which is vertically placed and the upper edge of which is closely approximated the posterior margin of the scutellum. Oblique shining area of the mesopleura rirtually flat, separated from the anterior narrow, feebly rugose area by a weak ridge.

Wings: hairs of the subcostalis thin, inconspicuous, hardly projecting beyond edge of the wing; stigmalis rather short with a faint cloud enveloping its base; of the wing surface extremely short (fig. 5). Segment 2 of the hind tarsus about times as long as 5. Abdomen slightly wider than its medial length, 5:4. Tergit in greater part smooth and shining; 2 with about 8-12 fine ridges mid-basally external ing to about middle; this striation forms a patch which is more or less as long wide; surface of tergite 2 otherwise smooth, shining; remaining tergites complete hidden beneath 2.

Flagellum pale brownish yellow, rather thick, its pubescence extrem short; segments 4-10 more or less square in outline. Otherwise like the female. Length: 39, 1 mm., approx.

W. Africa: Senegal, Bambey, 4 QQ, 1 3, bred 31.v.1939 from eggs of Acrosterna prunasis, Dallas (Pentatomidae), (J. Risbec).

Type in the British Museum.

This is a most distinctive little species, and it seems to have no close allies amo the other forms dealt with in this paper. Particularly characteristic of it is the form of the postscutellum by which alone it differs from all the other members of the gen known to me. Other important diagnostic features are the faint cloud at the be of the rather short stigma and the virtual concealment of tergites 3-7 beneath 2.

15. Microphanurus suranus, Nixon.

Microphanurus suranus, Nixon, 1936, Proc. R. ent. Soc. Lond., (B) 5, p. 132 AFRICA: Uganda, ex eggs of Antestia lineaticollis, Stål.

Microphanurus sulmo, Nixon.

Microphanurus sulmo, Nixon, 1938, Ann. Mag. nat. Hist., (11) 2, p. 126.

CEYLON: Talawakelle, ex eggs of Cantheconidea robusta, Dist. (Pentatomidae). This species is extremely closely related to suranus but I am satisfied that it distinct from it on the characters given in the key.

17. Microphanurus danaus, Nixon.

Microphanurus danaus, Nixon, 1935, Trans. R. ent. Soc. Lond., 83, p. 103.

Africa: Cape Province. Host unknown.

Microphanurus painei, Ferrière.

Microphanurus painei, Ferrière, 1933, Stylops, 2, p. 108.

Microphanurus painei, F., Nixon, 1938, Ann. Mag. nat. Hist., (11) 2, p. 135. SOLOMONS: ex eggs of Axiagastus cambelli, Dist. (Pentatomidae).

See Lever, 1934, for notes on the biology of this species.

19. Microphanurus orontes, Nixon.

Microphanurus orontes, Nixon, 1935, Trans. R. ent. Soc. Lond., 83, p. 102. AFRICA: Cape Province., Host unknown.

20. Microphanurus orontes, Nixon, var. A.

AFRICA: Tanganyika Territory, Dar-es-Salaam, a series bred from the eggs of Atelocera stictica, Westw. (Pentatornidae), (W. A. Lamborn).

This series of specimens, now recorded for the first time, bridges the gulf between ical orontes and priapus, Nixon (No. 21) and calls into question the specific validity The latter. The structure of the scutellum is more or less intermediate between t of orontes and that of priabus. More material and further study are needed in to decide whether we are dealing with a single variable species or with a number subspecies.

Microphanurus priapus, Nixon.

Microphanurus priapus, Nixon, 1938, Ann. Mag. nat. Hist., (11) 2, p. 133.

Buitenzorg, ex eggs of Chrysocoris atricabillus, Guér. (Pentatomidae): mogiri Dist., ex eggs of Dasynus manihotis, Blöte (Coreidae).

Mention of this species has already been made under Number 20.

Microphanurus basalis, Wollaston.

Telenomus basalis, Woll., 1858, Ann. Mag. nat. Hist., (3) 1, p. 25. Telenomus maderensis, Woll., 1858, Ann. Mag. nat. Hist., (3) 1, p. 25.

Telenomus megacephalus, Ashmead, 1894, J. linn. Soc. Lond., 25, p. 212.

Liophanurus megacephalus, Ashm., Kieffer, 1926, Das Tierreich, 48, p. 76. Telenomus piceipes, Dodd, 1919, Trans. ent. Soc. Lond., 1919, p. 354.

Microphanurus piceipes, Dodd, Nixon, 1935, Trans. R. ent. Soc. Lond., 83, p. 100.

U.S.A. W. Indies. Madeira. Africa: Egypt, ex eggs of Nezara viridula, Sudan, ex eggs of Agonoscelis versicolor, F. (Pentatomidae); Transvaal, ex eggs Nezara viridula. L.: Cape Province.

See Priesner (1931) for notes on this species and Kamal (1937) for a very full count of its biology.

Microphanurus crotius, Nixon.

Microphanurus crotius, Nixon, 1936, Proc. R. ent. Soc. Lond., (B) 5, p. 131.

AFRICA: Uganda, ex egg of Hemipteron, probably Coreidae.

Microphanurus seychellensis, Kieffer.

Telenomus seychellensis, Kieffer, 1910, Bull. Soc. ent. France, 1910, p. 294.
Telenomus truncativentris, Dodd, 1919, Trans. ent. Soc. Lond., 1919, p. 353.

Microphanurus seychellensis, Kieffer, Nixon, 1935, Trans. R. ent. Soc. Lond., 83,

Microphanurus seychellensis, Kieffer, Nixon, 1938, Ann. Mag. nat. Hist., (11) 2, 125.

SEYCHELLES. AFRICA: Abyssinia; Brit. E. Africa, ex eggs of Antestia variegata, Inb. (Pentatomidae); Tanganyika Terr., ex eggs of Antestia lineaticollis, Stal; Iganda, ex eggs of A. lineaticollis and Agonoscelis versicolor, F. (Pent.): Cape Pro-

ince. CEYLON: Passara, ex eggs of Cantheconidea robusta, Dist. (Pent.).

Microphanurus lemoleae, Nixon.

Microphanurus lemoleae, Nixon, 1936, Ann. Mag. nat. Hist., (10) 17, p. 558.

AFRICA: Uganda, ex eggs of Lycaenid butterfly, ? Spalgis lemolea, H. H. Druce.

I placed this species originally in Microphanurus because of the absence of hairs on he eyes. But taking into account its very small size—55 mm., much smaller than my Microphanurus I know-and that it is parasitic on Lepidopterous eggs, I proose to transfer it to Telenomus and shall henceforth refer to it as Telenomus lemoleae.

Species Unknown to the Writer.

26. Microphanurus africanus, Fouts.

Microphanurus africanus, Fouts, 1934, Mem. Soc. ent. ital., 13 (1), p. 106, AFRICA: Italian Somaliland, 13, 12, "reared from Lepidopterous eggs."

From the description given, this species is certainly correctly placed within Microphanurus. The order to which the host-eggs belong may well be questioned.

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