IX. Synoptic Table of the British Species of Aleuonota, Thoms., Atheta, Thoms., and Sipalia, Rey. By Malcolm Cameron, M.B., R.N., F.E.S.

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## INTRODUCTORY REMARKS.

THERE not being in existence any table dealing with the British species of these three genera, it is hoped that the one now presented may prove useful to students of these somewhat difficult groups, but, as many of the specific characters are comparative, it is essential to have access to a certain amount of authentic material. I have endeavoured, however, to give absolute characteristics wherever possible. The two primary sections of the table are the old divisions based on a pointed or parallel-sided abdomen, and at the outset it must be confessed that it is not entirely satisfactory. Most of the species in the subgenera Hydrosmecta, Aleuonota, Bessobia and Microdota have the abdomen very distinctly parallel-sided, whilst in Datomicra, Chaetida and Coprothassa, on the other hand, it is distinctly pointed; there remain, however, a number of forms with the abdomen more or less variable in shape, probably depending on the mode of death or method of mounting; yet, with experience, it is not as a rule difficult to refer any particular species to its correct division, and, without such division, it would considerably increase the difficulties in drawing up a table.

In the examination of the species I have restricted myself to the use of a 1-inch objective and a 20-diameter platyscopic lens. In examining for the presence of a metallic reflex a lens and daylight are necessary; with artificial light this character cannot be determined. I use the term "greasy lustre" for surfaces which are neither highly polished as in A. coriaria, nor yet quite dull as in A. aequata; it is the equivalent of the "fett-glanz" of German authors, and is well seen, for example, in the common A. amicula, Steph. (sericea, Rey.). In examining the joints of the antennae it is important to view them at right-angles to the lens, as when seen on a slope a false

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impression of lengthening or shortening may be given. It may be noted, too, that a free use of gum in fixing the antennae to a card may, by clotting the fine hairs at the distal end of a joint, give a square appearance to one really transverse.

The phrases "elytra sinuated" or "not sinuated" refer to the presence or absence of an emargination of the posterior margin of the elytron just internal to the postero-

external angle.

"Shagreening" and "puncturation."—These terms are somewhat loosely used by authors. By the former I understand a more or less fine wrinkling, the wrinkles by joining together forming a distinct pattern easily visible under a 1-inch objective. In the majority of species it is accompanied by puncturation, by which I mean small depressions in the surface usually bearing a hair and forming a simple puncturation, or, if the margin of the puncture is raised above the general surface, a rough puncturation. Examples of shagreening without puncturation are to be seen on the head and thorax of A. angustula, aequata, puberula, atomaria, and perexigua. Examples of rough puncturation are found on the head and thorax of A. corvina, subtilis, mortuorum (atricolor), etc.

The nomenclature is that of the last European Catalogue of Heyden, Reitter and Weise, 1906, which is based on the law of priority; no good purpose can be served and only confusion result in having well-known Continental forms figuring under names applied to them by British authors subsequent to the original descriptions. As, however, some of the names are so familiar, they are inserted in

brackets.

In conclusion I must acknowledge my indebtedness for the loan of specimens to Dr. Sharp, Dr. Joy and Mr. J. H. Keys; to the latter also my best thanks are due for valuable criticisms and suggestions.

1.	Abdomen more or less pointed at apex		and the	2.
_	Abdomen more or less parallel-sided			36.
2.	2nd joint of antennae distinctly shorter than the	3rd		3.
_	2nd joint of antennae not shorter than the 3rd			8.
3.	4th joint of antennae transverse			4.
_	4th joint of antennae longer than broad			5.
4.	Sides of thorax with strong setae, middle and I	poste	erior	
	tibiae with two strong and long setae. Antenna	ae bl	ack,	

- Sides of thorax without distinct setae, middle tibiae with a short stout seta, posterior without setae. Antennae pitchy, last joints about as long as broad. Elytra not shining, yellow with dark triangular scutellary patch often reaching posterior margins, strongly sinuated. Abdomen thickly punctured and pubescent to extremity. 

  ♂, ventral plate of 6th segment a little produced and rounded. ♀, ventral plate of 6th segment rather deeply emarginate. Length 3-3·5 mm. . . . . 137 sordida, Marsh.

Last joints of antennae about as long as broad . . . 6.

6. Elytra distinctly sinuated, reddish brown, scarcely longer than the thorax, the latter with lateral setae.

Apex of abdomen reddish yellow, tibiae without distinct setae. 3, 6th ventral segment broadly rounded and produced. Facies of sordida, a brightly coloured species. Length 3 mm. . . . . 135 consanguinea, Epp.

— Elytra feebly sinuated, distinctly longer than thorax . 7.

7. Elytra yellow, broader than long, about \( \frac{1}{4} \) as long again as the thorax, the latter with rather short setae at sides, middle tibiae with short indistinct seta at middle.

Abdomen slightly narrowed, facies of castanoptera, Mann., but antennae entirely dark, last joint much shorter and posterior tibiae without distinct setae, average size smaller and abdomen more thickly punctured. \( \frac{1}{2}, 6 \) 6th ventral segment narrowed and produced.

Length \( 3 - 3 \) 5 mm. \( \therefore \). \( 118 \) intermedia, Thoms.

— Elytra brownish yellow, longer than broad, fully half as long again as thorax, the sides of latter with long setae, and roughly punctured. Middle tibiae with rather long

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seta in middle, posterior with two fine but distinct setae
one below the knee and one at middle. Antennae with
first three joints yellow. Abdomen only slightly
narrowed towards apex. 3, 8th dorsal segment nar-
rowed—slightly rounded. 6th ventral segment slightly
produced. Length 3–3·5 mm 120 marcida, Er.
8. 2nd and 3rd joints of antennae of about equal length 9.
— 3rd joint of antennae distinctly shorter than 2nd 29.
9. Abdomen thickly punctured and pubescent to apex, as in
Oxypoda
— Abdomen much less thickly punctured and pubescent at
apex
10. Antennae lighter at base. Elytra distinctly sinuated . 11.
— Antennae entirely dark. Elytra less strongly sinuated . 12.
11. 4th joint of antennae longer than broad, 8 to 10 as long as
broad. Colour often entirely pitchy brown. Facies of
an Oxypoda and very similarly punctured and pubescent
but readily distinguished by having two pretty distinct
setae on intermediate tibiae. Length 2–2·3 mm.
138 pygmaea, Gr.
— 4th joint of antennae as long as broad, 8 to 10 distinctly
transverse. Facies of fungi, Gr., black or brownish
black. Abdomen much more thickly punctured and
pubescent than in <i>fungi</i> , but considerably less pubescent at apex than <i>pygmaea</i> . Length 2–2·3 mm 141 <i>parens</i> , Rey.
12. Species smaller 1.6–2 mm. Last joints of antennae
transverse.
Thorax longitudinally impressed before scutellum.
140 parva, Sahlb. (pilosiventris, Thoms.).
Thorax without impression v. muscorum, Bris.
- Species larger 2-2.5 mm. Last joints of antennae as
broad as long 139 aterrima, Gr.
13. 4th joint of antennae longer than broad 14.
— 4th joint of antennae about as long as broad or transverse 20.
14. Antennae more or less dark, sometimes obscurely lighter
at base
— Antennae reddish testaceous with yellow base. 3, 6th
ventral segment rounded and produced. Length
2·3–2·6 mm
15. Facies of fungi, sides of thorax with feeble setae, middle
tibiae with very feeble and obscure seta 16.
— Sides of thorax with distinct and strong setae, middle
tibiae with strong setae (except in cadaverina) 17.
16. Thorax less transverse, not more than half as broad again

221 Zanzenia en zanzenia in give pere 2 dece eg
as long, less shining, pubescence and punctuation closer.
Elytra as broad or almost as broad as thorax at its
greatest width. Length 2.5 mm v. orbata, Er.
— Thorax more transverse, more than half as broad again
as long, more shining, with pubescence and punctuation
more sparing. Elytra distinctly narrower than thorax
at its greatest width. Length 2.3-3 mm. 144 clientula, Er.*
17. Species entirely shining black 18.
<ul> <li>Species with the elytra yellowish or brownish yellow, head</li> </ul>
and thorax with metallic reflex 19.
18. Size larger, last joints of antennae about as long as
broad, setae on middle and posterior tibiae very feeble.
3, 8th dorsal plate feebly emarginate posteriorly, 6th
ventral plate narrowed and slightly produced. Length
2·5–2·8 mm
— Size smaller, last joints of antennae longer than broad,
two well-marked setae on middle and posterior tibiae.
3, 6th ventral plate slightly produced. Length 2 mm.
124 macrocera, Thoms.
19. Punctuation coarser, elytra darker, fore parts less bronzed,
abdomen not strongly pointed. 3, 8th dorsal plate
posteriorly slightly emarginate. Length 2·3–2·8 mm.
117 picipennis, Mann.
- Punctuation finer, elytra brighter, fore parts more
bronzed, abdomen distinctly pointed. 3, 8th dorsal
plate posteriorly feebly emarginate. Length 2.5 mm.
119 cinnamoptera, Thoms.
20. Fourth joint of antennae transverse. Species shining
black; thorax and elytra thickly and finely punctured,
the former without lateral setae, the latter strongly
sinuated. Penultimate joints of antennae strongly
transverse. Abdomen pretty strongly pointed. Middle
and posterior tibiae without setae. Length 2 mm.
133 paradoxa, Rey.
— Fourth joint of antennae as long as broad 21.
21. Species with metallic reflex on fore parts, sides of thorax,
middle and posterior tibiae with strong setae 22.
— Species without metallic reflex 23.
* A. montivagans, Woll. I have examined the type in the

\* A. montivagans, Woll. I have examined the type in the British Museum and can see no specific differences from clientula, a widely distributed and variable insect.

widely distributed and variable insect.

A. sharpi, Rye. This insect is probably identical with A. clientula, but, as the type is not accessible, it is not possible to be certain.

22.	Elytra brown or brownish black with more or less bronze	
	reflex. Legs pitchy yellow, femora dark. Thorax	
	broader. S, 8th dorsal plate slightly emarginate	
	posteriorly, the emargination bounded on each side by a	
	small tooth. Length 2·3-3 mm 116 atramentaria,	Gyll
	Elytra yellowish, legs yellow. Thorax narrower. 3,	
	8th dorsal plate with four teeth at hinder margin, the	
	outermost larger and only separated from the inner by	
	a small notch, a broad shallow emargination separates	
	the inner teeth from one another. Length 2-2.5 mm.	
	121 laevana,	Rev
23.	Posterior tibiae without distinct setae, middle tibiae with	
	at most one short seta. Lateral setae of thorax feeble.	24
_	Middle and posterior tibiae each with two long setae.	
	Lateral setae of thorax strong	27
24.	Elytra yellowish, often darker about scutellum and the	
	postero-external angles	25
_	Elytra uniform black or brownish black	26
	Antennae with base at least distinctly yellow, the 5th and	
	6th joints a little longer than broad. Thorax brownish,	
	paler at the sides. 3, 8th dorsal plate with four equi-	4
	distant teeth at posterior margin, the outer ones longer	
	than the inner. Length 2·3-2·9 mm 146 laticollis, S	teph
	Antennae at most pitchy at the base, the 5th and 6th	1
	joints about as long as broad. Thorax not lighter at	
	the sides. 3, 8th dorsal plate slightly emarginate	
	posteriorly, 6th ventral plate produced and rounded.	
	♀, 6th ventral plate slightly emarginate posteriorly.	
	Length 2–2·9 mm	Heer
26.	Size larger, antennae dark, at most pitchy at base, head	
	small. Middle tibiae with distinct short stout seta.	
	Facies of fungi. 3, 6th ventral plate a little produced.	
	φ, broadly emarginate. Length 2·5–2·8 mm.	
	147 subsinuate	, Er
_	Size smaller, antennae distinctly light at base, head large.	
	Middle tibiae without distinct seta. Facies of fungi.	
	3, 8th dorsal plate truncate, 6th ventral plate rounded	
	and slightly produced. Length 1.8–2 mm 142 orphana	, Er

Last joints of antennae not or but slightly transverse . 28.

28. Elytra scarcely sinuated, size smaller. 3, 8th dorsal plate rounded posteriorly, 6th ventral plate rounded.

	Q, 6th ventral plate emarginate posteriorly. Length	
	1·5–1·8 mm 125 parvula, Mann. (cauta,	Er.).
_	Elytra distinctly sinuated, size larger. 3, 8th dorsal	
	plate produced and truncate in middle, on either side	
	and separated from the produced central portion by a	
	distinct space is a rather long slightly incurved spine.	
	Q, 8th dorsal plate broadly and feebly emarginate with	
	a small tooth on either side, 6th ventral plate emarginate	
	posteriorly in middle. Length 2–2·7 mm.	
	123 nigripes, Thoms. (villosula,	Kr.).
29.	Fourth joint of antennae as broad as long, last joints	
	more or less transverse	30.
_	Fourth joint of antennae transverse or longer than broad	34.
30.	Head, thorax and elytra very shining, finely and asper-	
	ately punctured, elytra with disc reddish yellow and cir-	
	cumference more or less pitchy. Legs yellow, femora	
	dark. Length 1.8 mm 85 nitens,	Fuss.
_	Species not very shining, at most with a greasy lustre,	
	elytra uniform black or brown. Small obscure species	31.
31.	Thorax very transverse, double as broad as long, without	
	trace of lateral setae, fore parts dull, thickly deeply and	
	roughly punctured. Last joints of antennae strongly	
	transverse. 3, 8th dorsal plate truncate, 6th ventral	
	plate rounded and produced. Q, 8th dorsal and 6th	
	ventral plates slightly emarginate posteriorly. Length	
	1·3 mm	, Kr.
_	Thorax only moderately transverse, not twice as broad	
	as long, with distinct but feeble lateral setae; last joints	
	of antennae moderately transverse	32.
32.	Head and thorax with greasy lustre, finely closely, but	
	not roughly punctured. 3,8th dorsal plate at posterior	
	margin with four small equidistant teeth. Length	
	1.5–2 mm 132 zosterae, Thoms. (nigra,	Kr.).
_	Head and thorax finely closely and roughly punctured .	33.
33.	Antennae lighter at base. Elytra brownish, legs testa-	
	ceous. 3, 8th dorsal plate with four small teeth at	
	posterior margin. Length 1.5 mm 129 celata	, Er.
_	Antennae entirely dark. Elytra darker, legs with femora	
	pitchy. 3, 8th dorsal plate with four obscure teeth.	
	Length 1.5 mm 130 arenicola, Th. (germana, S	hp.).
34.	Fourth joint of antennae longer than broad, 7th to 10th	
	longer than broad, 11th more than twice as long as 10th.	
	Facies of zosterae. 3, 8th dorsal plate with four small	
	teeth on posterior margin. Length 2 mm 131 hodierna,	Shp.

<sup>\*</sup> I have examined A. simillima, Shp., but am unable to see any specific distinction from this species.

41. Larger. Temples bordered. Elytra about half as long
again as thorax. 3,8th dorsal segment in front studded
with large granules, behind quite smooth with usually
a distinct notch in middle of posterior margin. $\varphi$ ,
8th dorsal segment in front studded with finer granules,
the posterior margin not notched. Length 2.5–3 mm.
49 incana, Er.
— Smaller. Temples not bordered. Elytra scarcely longer
than the thorax. 3, 7th and 8th dorsal plates studded
with granules, posterior margin of the 8th plate with four
blunt teeth. Length 2–2.5 mm 48 nigella, Er.
42. 4th joint of antennae distinctly transverse, last joints
transverse sometimes very strongly 43.
— 4th joint of antennae about as broad as long or longer
than broad 72.
43. Species in great part testaceous or reddish testaceous . 44.
— Species black or pitchy brown, elytra in some more or
less testaceous
44. Small species; length 1·2-1·5 mm 45.
— Larger species; length 2.5–3 mm 50.
45. Species testaceous
— Species varying from reddish testaceous to reddish brown.
(A. exilis often very dark)
46. Elytra more or less infuscate at postero-external angles,
much longer than the thorax. Eyes moderate, rather
prominent. Abdomen infuscate before apex. Length
1·3 mm
— Uniformly pale testaceous, elytra not longer than the
thorax. Eyes very small, not prominent. Length
1·2-1·4 mm 155 indocilis, Heer. (pallens, Redt.).
47. Head small, narrow, quadrate, much narrower than the
thorax, black or dark brown. Thorax distinctly trans-
verse, sometimes more or less reddish testaceous.
Head, thorax and elytra finely shagreened, impunctate
with greasy lustre, the elytra much longer than the
thorax. Antennae with base yellow, infuscate towards
apex, 3rd joint much shorter than 2nd, the last joints
about four times as broad as long. Length 1.3-1.5 mm.
74 clavigera, Scrib.
— Head large, orbicular, nearly as broad as thorax 48.
48. Elytra shorter than the thorax, finely punctured. Head
and thorax very finely and sparingly punctured. 3,
6th ventral abdominal plate produced and truncate.
Length 1·3–1·5 mm

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— Elytra not shorter than thorax
49. Eyes small, not prominent, thorax about \( \frac{1}{3} \) broader than
long. Abdomen in front finely and rather closely punc-
tured and pubescent. Length 1.5-1.75 mm. 154 exilis, Er
— Eyes moderate rather prominent, thorax about half again
broader than long. Abdomen in front finely and spar-
ingly punctured and pubescent. J, Head with small depression on vertex, 6th ventral plate of abdomen
narrowed and produced. Length 1.5 mm.
153 validiuscula, Kr
50. 3rd joint of antennae distinctly shorter than 2nd, thorax
almost quadrate; last joints of antennae strongly
transverse
— 3rd joint of antennae as long as or scarcely shorter than
2nd, thorax distinctly transverse
finely but distinctly punctured
— Thorax and elytra very shining without visible punctura-
tion. 3, 8th dorsal plate of abdomen without tubercles.
Length 2.5 mm 4 gracilenta, Er. (splendens, Kr.).
52. Head strongly but not closely punctured. 11th joint of
antennae as long as the two preceding together. 3,
8th dorsal plate without tubercles. Length 3·3 mm. 1 atricapilla, Rey. (elegantula, Bris.).
— Head obsoletely punctured. 11th joint of antennae not
as long as the two preceding together. 3, 8th dorsal
plate without tubercles. Length 2.7–3 mm.
2 aurantiaca, Fvl. (rufotestacea, Shp., Fowler nec Kr.).
53. Elytra thickly and roughly punctured. 3, 8th dorsal
plate with four teeth at posterior margin, the outer ones spiniform, the inner ones short and stout. Length
3-3.5 mm
— Elytra finely and not thickly punctured 54.
54. Thorax twice as broad as long, last joints of antennae
about twice as broad as long. 3, 8th dorsal plate with
four teeth at posterior margin of equal length, the inner
ones blunt, the outer pointed. Length 2·2-2·8 mm.
79 subterranea, Rey.  — Thorax about half as broad again as long, last joints of
antennae about three times as broad as long. 3, 8th
dorsal plate produced in middle, externally furnished
with a slender obsolete spine, internal to which is
an oblique tubercle near posterior margin. Length
2-2.5 mm
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	tion and the tooth with traces of one or two teeth.
	Length 2·2–2·5 mm 84 coriaria, Kr.
_	Head and thorax with greasy lustre only 62.
02.	Elytra roughly punctured, strongly sinuated. Abdomen
	pretty finely and closely punctured and pubescent
	throughout
-	Elytra finely punctured, not sinuated. Abdomen very
	sparingly and finely punctured and pubescent, especially
	posteriorly 63.
63.	Elytra quite half as long again as thorax, distinctly
	longer than broad. 3, 7th dorsal plate with two or
	three irregular rows of granules, 8th also with granules,
	the hinder margin furnished on each side with a sharp
	tooth. Length 2 mm 58 inhabilis, Kr.
_	Elytra only about one-third longer than thorax, a little
	broader than long. 3, 8th dorsal plate produced in the
	middle and emarginate, on each side furnished with a
	spine. Length 1·8–2·3 mm.
	82 basicornis, Rey. (autumnalis, Shp.).
64.	Puncturation of head and thorax not visible, very shining,
	finely shagreened 65.
_	Puncturation visible, shagreened 66.
	Larger, thorax nearly as broad as elytra, antennae
	stouter. 3, 6th ventral plate produced. Length
	1.3 mm 65 atomaria, Kr.
	Smaller and more slender, thorax much narrower than
	elytra. Antennae more slender. 3, 6th ventral plate
	produced. Length 1 mm 64 perexigua, Shp.
66.	Puncturation of head and thorax fine, not rough, surface
	with greasy lustre, shagreened 67.
_	Puncturation fine but rough. Small obscure species . 69.
67.	Size smaller. Puncturation of head and thorax very
	fine sparing. Elytra not sinuated. 3, 8th dorsal plate
	broadly emarginate scarcely visibly crenulated. Length
	1.5-2 mm 70 amicula, Steph. (sericea, Muls.).
_	Larger, puncturation of head and thorax fine and close.
	Length 2–3 mm 68.
68.	Elytra distinctly sinuated, 3rd joint of antennae shorter
	than the 2nd. 3,8th dorsal plate with posterior margin
	furnished with two stout backwardly directed tubercles
	on each side of middle line and externally on either side
	a slender spine curved inwards. Length 2 mm.
	83 oblita, Er.
_	Elytra scarcely sinuated. 2nd joint of antennae shorter

than 3rd, facies of crassicornis, but 4th joint of antennae
more strongly transverse, 5th to 10th much less strongly
transverse. 3, 8th dorsal plate finely crenulate with
larger tubercle externally. $\circ$ , 6th ventral plate emar-
ginate. Length 3 mm. 91 nitidicallis, Fairm. (ignobilis, Shp.).
69. Very small, 7 mm 68 inquinula, Gr.
— Larger, 1–2 mm
70. Less robust, narrower and more shining, abdomen at base
finely and sparingly punctured. Legs yellow. 3, head
and thorax broadly impressed in middle line throughout
8th dorsal plate truncate, 6th ventral plate rounded and
not produced. In size intermediate between inquinula
and mortuorum. Length 1-1·2 mm 67 liliputana, Bris.
— More robust, broader, less shining, abdomen at base more
coarsely and closely punctured. Legs pitchy 71.
71. Head, thorax and elytra closely and distinctly punctured;
species narrower, smaller. 3, 8th dorsal plate slightly
emarginate. 6th ventral plate narrowed but not pro-
duced. Length 1.5 mm. 69 mortuorum, Th. (atricolor, Shp.).
- Head, thorax and elytra much less closely and distinctly
punctured; species broader, larger. Length 2 mm.
71 subtilis Scriba.*
72. 4th joint of antennae about as long as broad † 73.
— 4th joint of antennae longer than broad 117.
73. 3rd joint of antennae obviously shorter than the 2nd . 74.
— 3rd joint of antennae not or scarcely shorter than the 2nd . 86.
74. Species entirely dull, thickly and finely punctured and
pubescent all over, much as in Oxypoda. Last joints of
antennae distinctly transverse. Length 2–2·5 mm.
12 pruinosa, Kr.
— Species with normal puncturation and pubescence 75.
75. Last joints of antennae distinctly transverse 76.
— Last joints of antennae about as broad as long or very
slightly transverse, entirely testaceous. Narrow fragile
species of brownish or dirty testaceous colour. Head
subquadrate, thorax about as long as broad. Abdomen
very finely and moderately thickly punctured and
pubescent. 3, thorax broadly impressed in the middle
line. Length 1·2–1·4 mm 5 subtilissima, Kr.
inic. Length 12-14 lini suottussima, Kr.

<sup>\*</sup> I have examined specimens of *indiscreta*, Shp., but am unable to detect any specific differences. M. Fauvel also regards them as identical.

<sup>†</sup> In 3 diversa the 4th joint appears slightly longer than broad.

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76.	Antennae with at least the first three joints pale, often	
	entirely testaceous or reddish brown	77.
-	Antennae entirely dark. Narrow, parallel-sided species.	
	Elytra fully half as long again as thorax, evidently	
	longer than broad	85.
77.	Antennae entirely testaceous	78.
		81.
	Head distinctly narrower than thorax, transversely	
	rounded. Thorax and elytra often reddish brown,	
	shining, very finely and sparingly punctured. Abdo-	
	men black with reddish apex. Length 1.5 mm.	
	152 talpa, Heer. (parallela, Ma	ann.).
	Head nearly as broad as thorax	79.
79.	Head quadrangular, species smaller, more or less dirty	
	testaceous. Length 1·3–2 mm	80.
_		00.
	Length 2.9 mm	man
80.	More robust, elytra about \(\frac{1}{4}\) longer than the thorax,	illiall.
	scarcely as long as broad. 3, 8th dorsal plate truncate,	
	6th ventral plate slightly produced. $\circ$ , 8th dorsal	
	plate slightly emarginate. Length 2 mm.	TT ,
	39 complana, Mann. (deformis,	Kr.).
	More slender, elytra about \( \frac{1}{3} \) longer than the thorax,	
	about as long as broad. 3, 6th ventral plate produced	
	and slightly emarginate. Length 1·3-1·5 mm.	
	38 laticeps, Th. (difficilis, I	
81.	Antennae entirely reddish brown	82.
_	Antennae dark, with lighter base, elytra yellow with dark	
	triangular patch at scutellum and the sides also darker.	
	Very shining, legs yellow with dark femora. Length	
	1.8 mm	Fuss.
82.	Very shining, puncturation scarcely visible on head and	
	thorax, colour varying from reddish to dark brown. 3,	
	6th ventral segment produced and narrowed. Length	
	1·5–2 mm 63 aegra, 1	Heer.
_	Not very shining: with greasy lustre only. Species dis-	
	tinetly punctured and shagreened	83.
83.	Abdomen finely and closely punctured and pubescent	
	throughout. 3, 6th ventral plate narrowed and pro-	
	duced. Length 1.5–2 mm 40 vilis,	Er.
_		
	at apex	84.
84.	Larger and more robust, elytra distinctly longer than the	107
	thorax, about as broad as long. 3, 6th ventral plate	
	narrowed and produced. Length 3 mm. 34 fallaciosa,	Shp.

_	Smaller and more slender, elytra scarcely longer than the
	thorax, not sinuate, broader than long. (Much like
	gemina, Er., but in this species the antennae and elytra
	are longer and the latter are sinuated.) 3, 6th ventral
	plate narrowed and produced. Length 2 mm.
	29 curtipennis, Shp.
85.	Species distinctly and rather roughly punctured. Head
	large and quadrate. 3, head and thorax impressed in
	middle line, 8th dorsal plate truncate, 6th ventral plate
	produced and narrowed, 3rd joint of antennae triangu-
	larly dialated. Length 2 mm 57 corvina, Th.
2.41	Species finely shagreened not punctured on head and
-	thorax, facies of preceding but with broader thorax.
	3, 8th dorsal plate truncate and crenulate, 6th ventral
00	plate rounded and produced. Length 2 mm. 66 puberula, Shp.
80.	Antennae with 2nd and 3rd joints of practically equal
	length
	Antennae with 2nd joint shorter than 3rd
01.	Antennae entirely testaceous or but slightly darker near apex
	apex
_	darker near apex, or entirely dark, at most obscurely
	lighter at base
00	Thorax not transverse, as long or slightly longer than
00.	broad. Colour reddish brown. Elytra shorter than
	thorax. S, elytra each with raised tubercle at base near
	suture, 7th dorsal plate with a raised line in middle, 8th
	dorsal plate at posterior margin with two obscure teeth
	near middle. Length 2·5–3 mm 156 circellaris, Gr.
	Thorax distinctly transverse
89	Antennae stout, the last joints twice as broad as long . 90.
	Antennae slender, the last joints not twice as broad as
	long. Elytra yellow with large triangular area at
	scutellum dark and the postero-external angles largely
	dark, the dark markings often extending so as only to
	leave a yellow patch at anterior angles. Sometimes the
	elytra are almost entirely yellowish red. Sometimes
	the antennae are dark with lighter base (see 96).
	8th dorsal plate finely crenulate, the outer tooth on each
	side more distinct. Length 2·3–2·8 mm. 88 pallidicornis, Th.*
90.	Species larger, darker, elytra reddish brown, abdomen
	, , , , , , , , , , , , , , , , , , , ,

<sup>\*</sup> I have seen a mature specimen with one antenna entirely testaceous and the other dark with light base.

black. 3, elytra each with raised line parallel to
suture: 7th dorsal plate with two raised lines con-
verging backwards, 6th ventral plate produced. ♀,
6th ventral plate rather deeply emarginate. Length
4-4.7 mm
— Species smaller, brighter, elytra reddish, abdomen pitchy.
3, each elytron with raised line at hinder margin near
suture. Length 3·3 mm 52 exarata, Shp.
91. Antennae with lighter base
92. Elytra entirely reddish yellow, or yellow with dark
markings
— Elytra uniform reddish brown or black
93. Antennae stout, with strongly transverse terminal joints.
Head very coarsely and closely punctured, thorax
strongly transverse, closely and coarsely punctured.
Elytra yellow with postero-external angles dark.
Length 2.5 mm
— Antennae longer, much less stout, the terminal joints
moderately transverse or about as broad as long. Head
and thorax finely and moderately closely punctured, the
latter not so strongly transverse 94.
94. Species in great part reddish testaceous, broad and rather
depressed. Penultimate joints of antennae about as long
as broad or very slightly transverse. 3, 3rd joint of
antennae dilated: 7th dorsal plate with a tubercle. 8th
dorsal plate with four teeth at posterior margin, the
inner closer together and tubercular, the outer curved.
Length 3-4·5 mm 50 brunnea, F.
- Species dark, at most with elytra more or less testaceous
or reddish
95. Elytra scarcely sinuate, yellowish with distinct triangular
black scutellary patch and postero-external angles
black. Coloration of trinotata but narrower and more
parallel, and 3rd joint of antennae not longer than 2nd.
3, 8th dorsal plate finely crenulate. Length 3 mm.
94 xanthopus, Th.
— Elytra distinctly sinuate
96. Size smaller. Last joints of antennae distinctly trans-
verse, elytra either entirely yellow or with large dark
triangular scutellary patch and postero-external angles
J 1 1

<sup>\*</sup> This insect is Coenonica puncticollis, Kr., found in both the East and West Indies and no doubt imported. See E. M. M., vol. xlix, p. 135, 1913.

dark. Sometimes the dark markings extend so as only
to leave a yellow humeral patch. 3, 8th dorsal plate
finely crenulate, the outer tooth on each side more
distinct. Length 2·3–2·8 mm. (See also 89.)
88 pallidicornis, Th.
— Size larger. Facies of large castanoptera, Mann. Elytra
reddish yellow. Last joints of antennae as long as
broad or feebly transverse. Length 4–4·5 mm. 101 ♀ valida, Kr.
97. Thorax scarcely broader than long: elytra sinuate 98.
— Thorax distinctly transverse 100.
98. Head and thorax either shining or with distinct greasy
lustre
— Head and thorax completely dull, shagreened, without
puncturation. Elytra brown with greasy lustre, a little
longer than thorax, very finely punctured. 3, head and
thorax broadly impressed, 6th dorsal plate near hinder
margin with a transverse row of two to six granules, 7th
with about 8 tubercles in two transverse rows of four,
each one behind the other, 8th with four small teeth at
posterior margin. 6th ventral plate narrowed and
produced. Length 3-3.5 mm 46 aequata, Er.
99. Head and thorax with greasy lustre, shagreened not
punctured. Thorax often brown, elytra reddish brown
with greasy lustre, very finely punctured. 3, head and
thorax broadly impressed. 7th dorsal plate with about
ten large granules, more or less irregularly disposed,
8th with a transverse row of four large granules and
the hinder margin with four small teeth. Length
3·3-3·8 mm
— Head and thorax shining, distinctly punctured, elytra
reddish brown distinctly and roughly punctured. 3,
head broadly impressed, 6th ventral plate produced.
Length 3–3·5 mm 47 linearis, Gr.
100. Elytra strongly sinuate; fore parts shining. 3, 8th
dorsal plate distinctly emarginate behind. Length
2·5–3 mm 87 sodalis, Er.
— Elytra feebly sinuate: fore parts with greasy lustre only.
Abdomen not seldom pretty distinctly pointed. 3, 8th
dorsal plate with four teeth at posterior margin, two
central broad, blunt and close together, two lateral
spiniform. Length 2·2-2·5 mm 86 gagatina, Baudi.
101. Elytra yellow with black markings 102.
— Elytra uniformly brown or black 103.
102 Flytra vellow with distinct black scutellary patch

	extending to posterior margins; postero-external
	angles black. 3, 8th dorsal plate crenulate, the
	outermost crenulation on each side forming a distinct
	tooth. Q, 8th dorsal and 6th ventral plates obscurely
	emarginate. Length 3-3.5 mm 97 triangulum, Kr.
	Elytra yellow with suture and circumference black.
	Very shining, puncturation very fine and sparing. Legs
	yellow. Facies of small longiuscula Gr. (vicina, Steph.).
	According to Fauvel 3 with 8th dorsal plate finely crenu-
	late at posterior border, 6th ventral plate narrowed and
100	produced. Length 2–2·3 mm 62 subglabra, Shp.
	Thorax scarcely transverse
_	Thorax distinctly transverse 105.
104.	Femora pitchy; species less shining, puncturation of
	abdomen much more sparing. S, 8th dorsal plate
	slightly emarginate, 6th ventral plate narrowed and
	produced. Length 1.8–2.3 mm 60 angusticollis, Th.
-	Femora testaceous; species more shining, puncturation
	of abdomen much closer. Antennae often obscurely
	lighter at base. 3, 8th dorsal plate emarginate, 6th
	ventral plate produced. Length 2-2.5 mm. 61 palustris. Kies.
105.	Elytra distinctly longer than broad 106.
_ ]	Elytra distinctly longer than broad 106.
_ ]	Elytra distinctly longer than broad
_ ]	Elytra distinctly longer than broad
_ ]	Elytra distinctly longer than broad
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_ ]	Elytra distinctly longer than broad
_ ]	Elytra distinctly longer than broad
106.	Elytra distinctly longer than broad
106.	Elytra distinctly longer than broad
106.	Elytra distinctly longer than broad
106.	Elytra distinctly longer than broad
106.	Elytra distinctly longer than broad
	Elytra distinctly longer than broad

	Larger species. Length 2·2–3·8 mm 109.
109.	Thorax broader, about ½ as broad again as long. Elytra
	yellowish brown or dark
_	Thorax narrower, about $\frac{1}{3}$ as broad again as long.
	Elytra dark brown or black sometimes reddish brown in monticola
110	in monticola
110.	together. Elytra yellowish or reddish brown 111.
_	
	together. Elytra brown or black 112.
111.	Larger, broader, more shining. Elytra yellowish brown,
	abdomen sparingly punctured in front. 3, 8th dorsal
	plate crenulated posteriorly (about 8 or 10 teeth), the
	outermost on each side the most distinct. Length
	3·5–3·8 mm
_	Smaller, narrower with greasy lustre only. Elytra
	reddish brown; abdomen rather closely punctured
	in front. 3, head and thorax broadly impressed in
	middle. 8th dorsal plate broadly emarginate and
	very obscurely crenulate with larger tooth on either
119	side. Length 2·2–2·5 mm 81 divisa, Märk. Larger, less depressed, penultimate joints of antennae
112.	less transverse. S, penultimate joint of antennae
	nearly square; 8th dorsal plate crenulated with dis-
	tinct tooth externally on each side. Length 3.5 mm.
	98 diversa, Shp.
_	Smaller, depressed, penultimate joints of antennae
	much more transverse. 3, penultimate joint of an-
	tennae distinctly transverse, head and thorax broadly
	impressed. 8th dorsal plate slightly emarginate.
119	Length 2·2–2·5 mm 80 nigricornis, Th. 3, without tubercles or raised lines on 8th dorsal plate
110.	which is simply emarginate, 6th ventral plate pro-
	duced. Head and thorax rather broadly impressed.
	Q, 8th dorsal plate with triangular notch posteriorly.
	Length 2·7–3 mm 59 picipes, Th.
_	3, with tubercles or raised lines on 8th dorsal plate 114.
114.	Rather larger, more shining, thorax broader. 3, head
	and thorax deeply impressed. 8th dorsal plate deeply
	and triangularly emarginate posteriorly, towards each
	side with distinct ridge commencing at the emargina-
	tion on the posterior margin and curving forwards
	with concavity inwards. In the space thus enclosed are four shorter ridges, the two inner nearly parallel.
	are rour shorter riages, the two limes hearry paramer.

<sup>\*</sup> Dr. Sharp tells me that he can see no keel in his specimens, but that the segment in question is retracted.

more or less emarginate and more or less distinctly

<sup>\*</sup> I have examined a specimen of A. muiri, Shp., but am unable to perceive any characters to distinguish it from this insect.

the	British Species of Aleuonota, Atheta and Sipalia. 305
	crenulate. 6th ventral plate produced. ♀, 6th ventral plate slightly emarginate. Length 3·5–4 mm.  105 aquatilis, Th.
-	Elytra distinctly transverse, facies of large castano-
	ptera. Puncturation of thorax fine, not rugose. An-
	tennae testaceous more or less infuscate towards apex,
	the last joint longer than the two preceding together.  3, last joint of antennae longer, 8th dorsal plate trun-
	cate, 6th ventral plate produced and rounded. Length
	4 mm 100 incognita, Shp.
127.	Antennae entirely dark, sculpture of elytra consisting
	of small granules, dark brown or black: head and
	thorax shining black. Legs testaceous with femora darker. 3, granules of elytra much coarser. 7th and
	8th dorsal plates studded with granules, 8th plate
	truncate and crenulate posteriorly, 6th ventral plate
	produced and slightly notched. Length 3.8-4.3 mm.
	113 graminicola, Gr.
	Antennae with base lighter
120.	with base and apex pitchy. Species of bright appearance. 3, 8th dorsal plate sprinkled with granules, on
	each side near apex with a short raised ridge. Length
	4-4·8 mm 107 pagana, Er.
	Thorax black, elytra yellowish brown 129.
129.	Last joint of antennae rather longer than the two pre-
	ceding together. Species more robust, more shining, head and thorax much more finely and sparingly
	punctured, elytra more thickly punctured. 8th dorsal
	plate crenulate at hinder margin, teeth about 8 in
	number. Length 4–4·5 mm 101 & valida, Kr.
_	Last joint of antennae nearly as long as the three pre-
	ceding together. Species less robust, less shining, head and thorax more coarsely and closely punctured,
	elytra more sparingly punctured. 3, 8th dorsal plate
	truncate and furnished at hinder margin with about 8
	crenulations. Length 3.5–4 mm.
190	104 castanoptera, Mann. (xanthoptera, Steph.).
130.	Larger and more robust species. Length 4–4·3 mm 131. Smaller and more delicate species. Length 2–3 mm 132.
	Thorax scarcely narrowed behind, quadrate, species
	pitchy brown, dull, abdomen with hind margins of
	segments and apex lighter, closely punctured and
	pubescent. 3, 7th dorsal plate with a tubercle, 8th

-	posterior margin with 6 teeth, the outer on each side larger. Length 4-4·3 mm 20 languida, Er. Thorax distinctly narrowed behind. Black more shining, elytra often brown. Abdomen black, less closely punctured and pubescent especially behind. 3, 7th dorsal plate in middle line with short ridge pointed behind. 8th dorsal plate at posterior margin with four small teeth, two close together near middle line and two externally, the margin between sometimes showing traces of crenulations. Length 4-4·3 mm 14 currax, Kr.
132	Abdomen with all the segments pretty closely punctured
102.	and pubescent
	Abdomen less closely punctured and pubescent, 7th seg-
	ment smooth and shining. Pitch-black or pitch-
	brown, elytra often lighter, rather depressed. 3, 7th
	dorsal plate with a short keel pointed behind, 8th dorsal
	plate at posterior margin with four teeth, two blunt
	median ones close together, and externally on each
	side with a more or less distinct pointed one. Length
	2·5–3 mm
133.	Head quadrate; antennae dark, last joint but slightly
	longer than 10th; elytra half as long again as thorax,
	longer than broad. Pitchy-black or pitchy-brown
	with elytra usually lighter. 3, 6th ventral segment
	slightly produced and broadly rounded. $\circ$ , 6th ventral
	segment slightly emarginate. Length 2 mm. (See
	also 120 eximia) 8 fragilis, Kr.
	Head transversely oval, antennae testaceous, last joint
	equal to length of 9th and 10th together; elytra about
	as long again as thorax, broader than long. Pitchy-
	black or pitchy-brown with elytra reddish. 3, 6th
	ventral plate distinctly produced and rounded. ♀, 6th ventral plate broadly emarginate. Length 2·5–2·8 mm.
	32 marina, Rey. (imbecilla, Wat.).
134	Last joints of antennae scarcely transverse, about as
104.	long as broad
_	Last joints of antennae distinctly transverse 147.
	Thorax about as broad as long 136.
	Thorax distinctly transverse
	Thorax distinctly narrowed behind 137.
_	Thorax scarcely narrowed behind 139.
137.	Larger and more robust, rather dull, temples not dilated.
	Abdomen pretty closely punctured and pubescent on
	anterior segments. Black or pitchy with elytra lighter.

the British Species of Aleuonota, Atheta and Sipalia. 307
3, 7th dorsal plate with a tubercle, 8th dorsal plate at hinder margin with four more or less distinct teeth.
Length 4 mm 19 insecta, Th.  — Smaller, rather fragile species, head and thorax very
shining, temples dilated, abdomen sparingly punctured and pubescent
138. More depressed, abdomen more closely punctured, antennae more slender. 3, 7th dorsal plate with a
tubercle, 8th dorsal plate with four teeth at posterior
margin, the outermost on either side being less marked.
Length 3 mm 17 eichhoffi, Scriba.
<ul> <li>Less depressed, abdomen very sparingly punctured,</li> <li>antennae stouter. 3, characters as in preceding</li> </ul>
species. Length 3 mm. 16 debilicornis, Er. (planifrons, Wat.).
139. Species pitchy brown or reddish brown, dull with greasy
lustre only. Antennae brown with yellow base.  Abdomen black with margins of segments and apex
reddish. Facies of small languida. 3, 7th dorsal
plate with a tubercle. 8th with six teeth at pos-
terior margin, four placed near the middle. Length 3·2-3·6 mm
— Species black, rather shining, elytra often brown or
pitchy. Antennae dark with base lighter 140.
140. Species narrower. Abdomen often more or less pointed, finely and closely punctured and pubescent through-
out. First joint of posterior tarsi much longer than
second. 3, 6th ventral plate produced and rounded.
Q, 6th ventral plate notched. Length 2.5–3 mm.
— Species broader and more robust. Abdomen much less
closely punctured and pubescent especially towards
apex. 1st joint of posterior tarsi not longer than 2nd.
3.5 mm
141. Elytra yellowish brown, head and thorax pitchy black
or pitchy brown, abdomen with margins of segments
and apex reddish. Species dull
<ul> <li>Elytra dark brown or black, abdomen black 143.</li> <li>142. Broader and more depressed. ♂, 8th dorsal plate</li> </ul>
emarginate, 6th ventral plate considerably produced,
the apex turned upwards and the sides narrowed in the
middle. $\circ$ , 8th dorsal plate feebly emarginate, 6th ventral plate rounded. Length 4-4.5 mm.
22 luridipennis, Mann.

_	Narrower and less depressed. 3, 6th ventral plate pro-
	duced and narrowed with apex slightly emarginate.
	9, 8th dorsal and 6th ventral plates rounded. Length
	3·5–4 mm 23 gyllenhali, Thoms.
143.	Elytra scarcely longer than the thorax, the latter
	strongly transverse, as broad as the former. Antennae
	reddish brown with lighter base. 3, 6th ventral plate
	narrowed and produced. Length 3-3.5 mm.
	30 islandica, Kr. (eremita, Rye.).
	Elytra distinctly longer than the thorax 144.
144.	Thorax strongly transverse, about half as broad again
	as long, with distinct impression at base continued
	forwards as a fine channel. 1st and 2nd joints of an-
	tennae distinctly paler than the rest. Facies of fungi.
	3, 6th ventral plate produced and narrowed. Length
	2·3–2·5 mm
140.	Species larger, broader, and more depressed. Antennae dark, sometimes with first joint obscurely lighter.
	Facies of currax. 3, 6th ventral plate produced.
	Length 3·5–4·5 mm
_	Species smaller, narrower, less depressed. Antennae
	reddish brown or dark brown, often lighter at the base 146.
146.	Antennae more robust, penultimate joints about as
	broad as long. 3, 6th ventral plate strongly produced
	and narrowed. $\circ$ , 8th dorsal plate slightly emarginate.
	Length 3-3·5 mm 25 elongatula, Gr.
_	Antennae more slender, penultimate joints about as
	broad as long or slightly transverse. 3, 6th ventral
	plate much less produced than in preceding, broadly
	rounded. $\circ$ , 8th dorsal plate not emarginate. Length
	2·5-3·5 mm 24 melanocera, Thoms. (volans, Scrib.).
147.	Elytra strongly sinuated at the postero-external angles;
	mandibles prominent
	Elytra not or but slightly sinuated, mandibles normal . 150.
148.	Colour in great part reddish testaceous, head and ab-
	domen before apex usually darker. 3, 6th ventral
	segment produced and rounded. Length 2-2.5 mm.
	42 testacea, Bris.
140	Colour black or blackish
149.	More depressed, head more deeply punctured. 5th joint
	of antennae quadrate (about as long as broad) base of
	antennae usually reddish. 3,6th ventral plate narrowed
	and produced. Length 2.5-3 mm 44 puncticeps, Th.

_	Less depressed, head less deeply punctured, 5th joint
	of antennae longer than broad; base of antennae
	testaceous. S, 6th ventral plate produced and
	rounded. Length 2·5–3 mm.
	43 flavipes, Th.* (halobrectha, Shp.).
150.	Thorax not, or scarcely broader than long 151.
-	Thorax distinctly transverse
151.	Thorax distinctly narrowed towards base, shining, head
	with large superficial punctures, abdomen very spar-
	ingly punctured. 3, 6th ventral segment produced
	and rounded. \$\infty\$, 6th ventral segment slightly emargin-
	ate. Length 3.5 mm 114 vestita, Gr.
_	Thorax distinctly narrowed towards base, not shining
	(greasy lustre only); head without large superficial
	punctures, abdomen pretty thickly punctured and
	pubescent
152.	Elytra longer than broad, abdomen much more thickly
	and finely punctured and pubescent. 1st joint of
	posterior tarsi considerably longer than 2nd. 3, 6th
	ventral plate narrowed and a little produced. Length
	3–3·3 mm
_	Elytra broader than long, abdomen much less thickly
	and finely punctured and pubescent. 1st and 2nd
	joints of posterior tarsi of equal length. 3, 7th dorsal
	plate with a tubercle, 8th with four indistinct teeth
1 ~0	at posterior margin. Length 3.5 mm 18 sulcifrons, Steph.
153.	Antennae dark, not lighter at base
154	Antennae dark with lighter base or entirely brown 156.
104.	Elytra uniformly brown or yellowish brown 155.
	Elytra yellow, with margins more or less fuscous, legs yellow with femora dark. 3, 3rd dorsal plate (1st
	visible) with tubercle (sometimes obscurely in $\mathcal{L}$ also)
	8th sprinkled with granules and shagreened, on either
	side with short ridge. Length 3.5–4 mm.
	109 longiuscula, Gr. (vicina, Steph.).
155.	Larger and more convex, very shining, very feebly
	shagreened, antennae longer and more slender. 3,
	8th dorsal plate truncate and obscurely crenulate.
	Length 3·8–4·3 mm
_	Smaller and more depressed, much less shining and very
	distinctly shagreened. Antennae rather shorter and
* 1	
a larg	am unable to see in A. princeps, Shp., anything more than the flavines. In the Mediterranean I have taken large forms of

a large flavipes. In the Mediterranean I have taken large forms of puncticeps.

310	Dr. Malcolm Cameron's Synoptic Table of
× .	stouter. 3, 8th dorsal plate obscurely crenulate posteriorly. Length 3.5—4 mm.
156.	112 oblonga, Er. (oblongiuscula, Shp.). Thorax black with metallic reflex, elytra yellow, darker
	at scutellum and postero-external angles. 3, 8th dorsal plate crenulate posteriorly. Length 3–3 mm.
	103 pertyi, Heer. (aeneicollis, Shp.).
_	Thorax black without metallic reflex, elytra uniformly reddish yellow or brownish
157.	Last joint of antennae very long and stout, equal in
	length to the three preceding together. Species black and shining, elytra reddish yellow. 3, 6th ventral
	plate narrowed and produced. Length 4-4.5 mm.
	106 hypnorum, Kies. (silvicola, Fuss.).
	Last joint of antennae not longer than the two preceding
	together
158.	Elytra not or scarcely longer than the thorax. 3,8th
	dorsal plate obscurely crenulate. Length 3.5 mm.
	110 alpestris, Heer. (nitidiuscula, Shp.). Elytra distinctly longer than the thorax 159.
159.	Larger species; thorax reddish brown with large super-
100.	ficial scattered punctures; elytra yellowish red, abdo-
	men with margin of segments and apex reddish. 3,8th
	dorsal plate granulate and slightly produced in middle,
	the granular area bounded by a little ridge on either side.
	Length 3.5–4 mm. 108 granigera, Kies. (crassicornis, Gyll.).
1.30	Smaller species, 1.7–3 mm., uniformly pitchy black or pitchy brown, thorax closely and finely punctured . 160.
160.	Head almost as broad as the thorax, the latter distinctly
	narrowed behind
_	Head much narrower than thorax, the latter scarcely
	narrowed behind, with two small impressions one on
	either side of middle line before scutellum. 3, 6th
	ventral segment a little produced and narrowed.  Length 1.7–2.3 mm
161	Length 1.7–2.3 mm
101.	joints more strongly transverse. 3, 6th ventral plate
	produced and rounded. $\circ$ , 6th ventral plate furnished
	at posterior margin with short, closely set setae. 35 debilis, Er.
-	Fifth joint of antennae longer than broad, penultimate
	joints less transverse. 3, 6th ventral plate narrowed,
	at posterior margin with rather long, less closely set setae

# A LIST OF THE BRITISH SPECIES OF ALEUONOTA, ATHETA AND SIPALIA.

## ALEUONOTA, Th.\*

1. atricapilla, Rey. rufotestacea, Kr. elegantula, Bris.

2. aurantiaca, Fauv. rufotestacea, Rye. (nec Kr.)

3. egregia, Rye. gracilenta, Kr. (nec Er.) hypogaea, Fowler (nec Rey.)

4. gracilenta, Er. splendens, Kr. hypogaea, Rey.

ATHETA, Th.

Sub.-g. Hydrosmectina, Ganglb.

5. subtilissima, Kr.

Sub.-g. Hydrosmecta, Th.

6. delicatula, Shp.7. longula, Heer.

8. fragilis, Kr.

9. eximia, Shp.

Sub.-g. DILACRA, Th.

10. luteipes, Er.

Sub.-g. Dacrila, Rey.

11. fallax, Kr.

12. pruinosa, Kr.

Sub.-g. Glossola, Fowler.

13. gregaria, Er.

Sub.-g. Aloconota, Th.

14. currax, Kr.

15. cambrica, Woll.

16. debilicornis, Er. planifrons, Waterh.

17. eichhoffi, Scriba.

18. sulcifrons, Steph.

19. insecta, Th.

Sub.-g. DISOPORA, Th.

20. languida, Er.

21. longicollis, Rey.

Sub.-g. Pelurga, Rey.

22. luridipennis, Mann.

Sub.-g. METAXYA, Rey.

23. gyllenhali, Th.

24. melanocera, Th. volans, Scriba.

25. elongatula, Gr.

26. hygrotopora, Kr.

27. aubei, Bris.

28. gemina, Er.

29. curtipennis, Shp.

30. islandica, Kr. eremita, Rve.

eremita, Rye. 31. arctica, Th. clavipes, Shp.

32. marina, Rey. imbecilla, Waterh.

33. meridionalis, Rey. littorea, Shp.

Sub.-g. Hygroecia, Rey.

34. fallaciosa, Shp.

35. debilis, Er.

36. magniceps, Sahlb.

37. scotica, Elliman.

Sub.-g. PARAMEOTICA, Ganglb.

38. laticeps, Th. difficilis, Bris.

39. complana, Mann. deformis, Kr.

Sub.-g. Dralica, Rey.

40. vilis, Er.

Sub.-g. Oreostiba, Ganglb.

41. tibialis, Heer.

Sub.-g. Pseudopasilia, Ganglb.

42. testacea, Bris.

Sub.-g. Halobrectha, Th.

43. flavipes, Th. halobrectha, Shp.

44. puncticeps, Th.

\* The synonymy of this genus is that given by Fauvel (Rev. d'Ent., 1895, p. 95) after an examination of all the types.

Sub.-g. Dinaraea, Th.

45. angustula, Gyll.

46. aequata, Er.

47. linearis, Gr.

Sub.-g. Pachnida, Rey.

48. nigella, Er.

Sub.-g. ALIANTA, Th.

49. incana, Er.

Sub.-g. Plataraea, Th.

50. brunnea, F. depressa, Gr.

Sub.-g. Ptychandra, Ganglb.

51. hepatica, Gr.

52. exarata, Shp.

Sub.-g. Bessobia, Th.

53. occulta, Er.

54. fungivora, Th.

55. excellens, Kr.

56. monticola, Th.

Sub.-g. Anopleta, Rey.

57. corvina, Th.

58. inhabilis, Kr.

Sub.-g. Traumoecia, Rey.

59. picipes, Th.

60. angusticollis, Th.

Sub.-g. Philhygra, Rey.

61. palustris, Kies. 62. subglabra, Shp.

Sub.-g. Microdota, Rey.

63. aegra, Heer.

64. perexigua, Shp.

65. atomaria, Kr.

66. puberula, Shp.67. liliputana, Bris.

68, inquinula, Gr. 69. mortuorum, Th.

atricolor, Shp.

70. amicula, Steph. sericea, Rey.

71. subtilis, Scriba. indiscreta, Shp.

72. indubia, Shp. 73. palleola, Er.

Sub.-g. Rhopalocera, Ganglb.

74. clavigera, Scriba.

Sub.-g. Ceritaxa, Rey

75. testaceipes, Heer.

76. dilaticornis, Kr.

Sub.-g. Alaobia, Th.

77. scapularis, Sahlb.

Sub.-g. Dochmonota, Th.

78. clancula, Er.

Sub.-g. Atheta, s. str.

79. subterranea, Rey.

80. nigricornis, Th.

81. divisa, Mark.

82. basicornis, Rey. autumnalis, Shp.

83. oblita, Er.

84. coriaria, Kr.

85. nitens, Fuss.

86. gagatina, Bandi.

87. sodalis, Er.

88. pallidicornis, Th. humeralis, Kr.

89. nigritula, Kr.

90. liturata, Steph.

91. nitidicollis, Fairm. ignobilis, Shp.

92. crassicornis, F. fungicola, Kr. v. fulvipennis, Rey.

93. pilicornis, Th.

94. xanthopus, Th.

95. hybrida, Shp.

96. trinotata, Kr. 97. triangulum, Kr.

98. diversa, Shp.

99. euryptera, Steph. succicola, Th.

100. incognita, Shp.

101. valida, Kr.

102. aquatica, Th.

103. pertyi, Heer. aeneicollis, Shp.

104. castanoptera, Mann. xanthoptera, Steph.

105. aquatilis, Th.

Sub.-g. Liogluta, Th.

106. hypnorum, Kies. silvicola, Fuss.

107. pagana, Er.

108. granigera, Kies. crassicornis, Gyll. 109. longiuscula, Gr. vicina, Steph.

110. alpestris, Heer. nitidiuscula, Shp.

111. nitidula, Kr.

112. oblonga, Er. oblongiuscula, Shp.

Sub.-g. Megista, Rey.

113. graminicola, Gr.

Sub.-g. THINOBAENA, Th.

114. vestita, Gr.

Sub.-g. DIMETROTA, Rey.

115. cadaverina, Bris.

116. atramentaria, Gyll.

117. picipennis, Mann.

118. intermedia, Th.

119. cinnamoptera, Th.

120. marcida, Er.

121. laevana, Rey.

122. setigera, Shp.

123. nigripes, Th. villosula, Kr.

Sub.-g. BADURA, Rey.

124. macrocera, Th.

125. parvula, Mann. cauta, Er.

Sub.-g. Datomicra, Rey.

126. cribata, Kr.

127. canescens, Shp.

128. sordidula, Er.

129. celata, Er.

130. arenicola, Th. germana, Shp.

131. hodierna, Shp.

132. zosterae, Thp. nigra, Kr.

Sub.-g. PYCNOTA, Rey.

133. paradoxa, Rey.

Sub.-g. Chaetida, Rey.

134. longicornis, Gr.

Sub.-g. Coprothassa, Th.

135. consanguinea, Epp.

136. melanaria, Mann. testudinea, Er.

137. sordida, Marsh.

Sub.-g. ACROTONA, Th.

138. pygmaea, Gr.

139. aterrima, Gr.

140. parva, Sahlb. pilosiventris, Th. v. muscorum, Bris.

141. parens, Rey.

142. orphana, Er.

143. fungi, Gr. v. orbata, Er.

144. clientula, Er.

145. fuscipes, Heer.

146. laticollis, Steph.

147. subsinuata, Er.

Sub.-g. Amischa, Th.

148. analis, Gr.

149. decipiens, Shp.

150. soror, Kr.

151. cavifrons, Shp.

Sub.-g. Amidobia, Th.

152. talpa, Heer. parallela, Mann.

153. validiuscula, Kr.

Sub.-g. MEOTICA, Rey.

154. exilis, Er.

155. indocilis, Heer. pallens, Redt.

SIPALIA, Rey.

156. circellaris, Gr.

157. caesula, Er.

Species of Uncertain Position

158. cribriceps, Shp.\*

<sup>\*</sup> This species is Coenonica puncticollis, Kr., and no doubt imported. Cf. Ent. Mo. Mag., vol. xlix, p. 135 (1913).



Cameron, Malcolm. 1913. "IX. Synoptic Table of the British Species of Aleuonota, Thoms., Atheta, Thoms., and Sipalia, Rey." *Transactions of the Entomological Society of London* 61, 284–313.

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