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CATALOGUE OF DIPTERA, &c.

147-180

ART. XVII.—*Catalogue of Diptera occurring about Holywood in Downshire.* By A. H. HALIDAY, Esq., M.A.

[TO THE EDITOR OF THE ENTOMOLOGICAL MAGAZINE.]

SIR,—I send you a list of some Diptera occurring about Holywood, in the county of Down. Should you think it not unsuited to the pages of the Entomological Magazine, the Notes appended will afford the necessary explanations of the nomenclature adopted, where it differs from that of Meigen or of the published British Catalogues. As I am aware that a bare local catalogue may not seem of sufficient general interest to occupy so many pages, I should probably not have thought of it had time allowed me to offer any contribution of greater labour and detail. Perhaps, however, as referring to a district in this respect nearly unexplored, this list may afford some hints for the advancement of our Insect Geography. I am sorry therefore to present it in so meagre a form, many of the most extensive genera being unexamined in detail. These are indicated by the asterisk prefixed; and some of them I have thought it better to pass over entirely. Perhaps, however, a few facts may be gleaned from it, such as it is. The total absence of the families of *Bombylii* and *Asili* is observable; and, considered in connexion with the small proportion which the British species bear to the European in the aggregate, seems a result partially determining the law of progressive distribution among these forms. The disappearance or extreme rarity of the finer genera (the *Optimates*) among the *Tabani*, *Stratiomydes*, *Syrphi*, &c. may also be remarked, as well as the absence of various conspicuous (and in this point of view more insulated) groups, such as *Ctenophora*, *Aspistes*, *Pachygaster*, *Platypeza*, *Diaphorus*, *Echinomyia*, *Gymnosoma*, *Micropeza*, *Platystoma*, &c. On the other hand, the predominance of particular tribes may afford some indications; the *Dolichopi*, as a family, are pretty full (so also the minuter *Tipulidæ*, though not appearing from this catalogue); the *Muscidæ*, of less typical structure (all the genera after *Cænoscia*, or perhaps *Scatophaga*?) are by no means scanty. A few groups seem to approach their culminant point; *Cælopa*, a genus unknown to the shores of the continent, and even on the Scanic peninsula confined to one described species, here

numbers five or six, all rich in individuals, and exercising no unimportant functions in the economy of nature. *Tachypeza arenaria*, which sometimes swarms upon our coasts, has many analogies of structure with its companions, the swift-footed but heavy-winged *Orygma* and *Cælopa*, and like them is probably confined to a northern range. Not to detain you further with remarks that may appear obvious or trivial, I will only add my best wishes for the success of your undertaking; and am,

Your very obedient, &c.

ALEX. HENRY HALIDAY.

Clifden, near Holywood, Oct. 10th, 1832.

Culex
annulatus
cautus
nemorosus
detritus, N.S.
piplens
Anopheles
maculipennis
bifasciatus
plumbeus
Corethra
culiciformis
Tanytus
Chironomus
virescens?
Colicoidea
scutellatus
pulicarius
obsoletus
nubeculosus
subulturnus
Ceratophogon
sigma
albicornis
ornatus
annulipes
distinctus, N.S.
brachialis, N.S.
gracilis, N.S.
flavipes
rufipes
ferruginea
Sphaeromyza
concinna, Meig.
varipes, Sz.
annularis, St.
Serromyza
femorata
inorio
Psychoda
phalenoidea
nervosa
fuliginosa
palustris
ocellaris
Erioptera
maculata
varia
atra
ULA, N.O.
mullastma, N.S.
Limnobia
C. fasciata
merinotata
decora, N.S.

Limnobia
E. fuscipennis
nitidicollis
F. nemoralis
F.a. senilis, N.S.
G. ferruginea
H. littoralis
O. albifrons
E. tripunctata
nubeculosa
pabulosa
P. Xanthoptera
quadrinotata
R. tenella
U. immaculata
Y.a. demissa, N.S.
Y.b. pavidus, N.S.
DICHANOMYIA, St.
modesta
chorea
lutea
musta
oscillans, N.S.
GLORINA, Meig.
[VI. 7]
leucocephala
dumetorum
Geranomyia, N.G.
unicolor, N.S.
Rhamphidia
longirostris
Symplecta
aticleca
Rhipidia
maculata
Pedicia
rivosus
Dolichocheza
sylvicola
Ptychoptera
albimana
scutellaris
palustris
lacustris
Tipula
gigantea
lutescens?
bulbosa
oleracea
dispar, N.S.
luteipennis?
flavolineata
nubeculosa? & 6
A.a. annulicornis
B. crocata
cornicina

Trichocera
hyemalis
fuscata
annulata
regelationis
Dixa
nebulosa
maculata
aprilina
æstivalis
serotina?
Macrocera
lutea
phalerata
fasciata
Bolitophila
fusca
Platyra
Sciophilina
marginata
rufa
Leja
fuscipennis
bimaculata
Winthemi
Cordyla
crassicornis
fusca
fasciata
Mycetophila
limata, Meig.
arcuata
cingulum
lineola
lunata, Fabr.
nigra
Sciara
Thomæ
morio
flavipes
Orphnephila
devia, Z.J.
ANABETE, N.O.
caudilata, N.S.?
Lestremia
leucophæa
CARTUCHA, N.O.
lulipes, N.S.
Campylomyza
atra
Cecidomyia
pictipennis
annulipes
Lasioptera
Scatopse
A. punctata

Scatopse
nigra
B. minuta
infumata, N.S.
Dilophus
vulgaris
femorata
Bibio
Marci
leucopterus
Pononæ
Johannis
nigri-ventris, N.S.
lanigerus, m. }
vernalis, f. }
clavipes
Simulia
sericea & 3
Ithyphus
punctatus
foenestralis
ochraceus, Curtis?
Beris
geniculata, B.E.
chalybeata
vulvata
clavipes
Hæmatopota
pluvialis
ocellata
Chrysops
viduatus
Spania
Fallenii, N.S.
Rhiagio
scutopæus
tringarius }
vandelus }
lineola
Leptis
aurata
Thereva
cineta
Hybos
lunebrius
vitripennis
Cyrtonus
nigra?
atra
niclæna, N.S.
Ocydromia
scutellata
glabricula
rufipes
Trichina
clavipes

Trichina
elongata, N.S.
Rhamphomyia
sulcata
tephrea
cinerascens
nigripes
tenuirostris
cæsa
flava
longipes & 6
Empis
tesellata
penipes
penularia
chloptera
pilipes
livida
stercora
testacea
Pachymeria, St.
ruralis
Hilara
globulipes
chorica
clypeata
nigripes
litorea
modesta
flavipes
Hemerodromia
A. Monostigma
præcatoria
melanocephala
albicornis
E. suppicatoria
HELEODROMIA, N.G.
A. immaculata, N.S.
B. bipunctata, N.S.
stagnalis, N.S.
fontinalis, N.S.
LEPTOCHELES, N.G.
irroratus
exoletus, N.S.
guttatus
TACHYPEZA, Meig.
[VI. 34]
arrogans
cimuloides
umbrarum, N.S.
truncorum
arenaria, N.S.
Tachydromia
flavipes
fasciata
annulipes
albocapitata
albida
nigritarsis
minuta
annulata
Drapetis
aterrima, B.E.
Opelia
nigra
louchopteroides,
[N.S.?
Callomyia
antennata
leptiformis
Pipunculus
A. canpestis, f. }
ater, m. }
varipes }
flavipes }
B. acetos }
C. spuria }
exiguus, N.S. }
Medeterus }
regius }

Medeterus
notatus
viridis
conspersus, Z.J.
bipunctatus
balticus
præcox
scambus
curvipes
loripes, Z.J.
prodromus, Z.J.
truncorum
muralis
tenellus
Chrysotus
læsus
copiosus
neglectus
femorata
nigripes
Ptilopus
platypterus
Machærium
Maritime, Z.J.
Rhamphium
macrocerum
caliginosum
Porphyrops
B. decoratus, Z.J.
pallipes
pumilus
insularis, Z.J.
riparius
rospes
riparius, Z.J. m. }
obscuratus }
flavicollis }
A. alaphanus }
leucocephalus }
fulgens, Z.J. }
argyreus }
argentinus }
vestitus }
anlicus }
C. annulipes }
flaviventris }
N.S. }
N.S. }
Dolichopus
A. nitidus
jucundus, N.S.?
festivus, Z.J.
Diadema, Z.J.
popularis
pennatus
urbanus
pennitarsis
thalassius, Z.J.
acuticornis
linearis
inquinatus, Z.J.
trivialis, Z.J.
acetos, Z.J.
vitripennis
fuscipes, Z.J.
clavipes, Z.J.
A.a. litoreus }
plumipes, Z.J. }
B. laularis }
fastuosus, Z.J. }
brevipennis }
equestris, Z.J. }
angulatus }
canpestis }
B.b. cupreus }
acrosus }
sarus, Z.J. }
nigripennis }

Hypophyllus, N.Z.I.
obscuratus
Scenopinus
niger
Sargus
pollus
flavicornis
formosus
flavipes
cuprarius
Nemotelus
uliginosus
nigrinus
Oxycera
trilineata
Odontomyia
Hydroleon
Stratiomys
fasciata
Chrysotoxum
bicinctum
Paragus
femoratus
Ascia
podagrica
floralis
dispar
Bæcha
nigripennis
elongata
scutellata
Xyloa
pipiens
segnis
sylvorum
Pipiza
noctiluca
signata
vitrea
tunehris
virens
Rhingia
rostrata
campestris
Chrysogaster
Cheilosia, Meig.
[olim.]
æstræca
variabilis
flavicornis
Syrphus
Pyrastris
Ribeali
Corollæ
albostratus
bifasciatus
tricornis
nectareus
scutatus
pellatus
clypeatus
manicatus
Ucymi, f. }
lobatus, m. }
Rosarum }
Syrphus, p. }
Menthastri }
Mellæ }
scriptus }
tæniatus }
Sericomyia }
borealis }
Helophilus }
pendulus }
trivittatus }
Eristalis
floreus

Eristalis
repulchralis
tenax
luricarinus
similis
Volucella
bombylaus
mystacea
pellucens
Myopa
atra
testacea
Siphona
cinerea
tachinaria
Stomoxys
calceitarsis
stimulans
Tachinæ & 6.
Mesembria
meridiana
Sarcophaga
caroaria
Dexia
caulina
Musca
A. Cæsar
regalis
Chloris, N.S.
B. Vomitoria
erythrocephala
rudis
degener, N.S.
macellaria, N.S.
domestica
stabiliana
hortorum
cyanea
inaculata
meditabunda
Anthomyia
lardaria
assimilis
notata
dentimana
erratica
pagana
Angelicæ
impuncta
strigosa
manicata
caucasiensis
dentipes
ciliata
triquetra
diaphana
izantis
Drymeia
obscura
Lispe
tentaculata
litorea
? asclita, N.S.
Cenosa
ternis
tigrina
pedella
Schænomyza, N.G.
fasciata
Sciomyza fasciata
litorella
Ochthiphila litorella
Corytura [rella, B.]
pulifera
albipes
apinimana
punctipes
obscura
hydromyzina

Scatophaga scybalaria stercoraria merdaria analis lutaria spurca inquinata eximia, n.e. Ostiorum, n.e. squalida rufipes rudis, n.e. litorea decipiens, n.e.	Pandora, n.o. scutellaris, Fall. basalis, n.s. Sepsis A. Panctum hilaris cynipsea B. cylindrica annulipes Leachii putris superba, n.s. minor, n.s. Ortalis puchella crassipennis Cerasi vibrans Tephritis Zoi continna cognata Onopordinis } Centaureae } Arctii marginata cuspidata Arnicae Plantaginis, n.s. flavicauda Leontodontis radiata Sonchi Louchae chorea Lauxania aenea amica, n.s. sordida, n.s. lupulina Sapromyza, p. pallidiventris trimacla ustulata umbellatarum arcuata 10-punctata Sapromyza, sicut St. flava praevusta rorida pallida Palloptera, Fall. unicolor Heteroneura albimana ? spurca, n.s. Palla pallida Rosae nigricornis? Calobata petronella Lexocera elongata ichneumonea Stegana annulata, n.s. Ochthiphila aridella	Ochthiphila polystigma Leucopis puncticornis obscura, n.s. Agromyza * nigripes mobilis bimaculata anthracina acuticornis } deuticornis } variegata luctuosa aenea strigata Orbona Phytomyia * festiva lateralis affinis flavicornis Ochthera Mantis Ephydra glabrata cesta, n.s. rufipes infecta, n.s. aquila coarctata litoralis fossarum, n.s. hecate, n.s. spilota, n.e. curvicauda albula? riparia micans, n.s. pygmaea, n.s. leucostoma aestuans, n.s. stagnalis paludum litosa, n.s. compta, n.s. noctula Graminum, n.s.? quadrata defecta, n.s. picta interrupta, n.s. interstincta flavipes posticata stictica Notiphila * cinerea leucostoma griseola chrysostoma erythrostroma albiceps albilabris flaviventris madizans, Fall. Drosophila flava graminum	Drosophila tristis cellaris L. ? } melanogaster ingrata, n.s. virginica? phalerata transversa cameraria, n.s. fenestrarum funebris Diastata obscuripennis punctum obscurella Opomyza Germinationis florum var. punctata combinata tripunctata tremula, n.s. asteia, n.s. Asteia aenea Gymnopa glabra Chlorops * A. lateralis, n.s. fulvifrons, n.s. Cereris agnata, n.s. messoria teniopus glabra lineata? hypostigma B. brevipennis cornata albisetia maura, &c. Meromyza variegata saltatrix pratorem Borborus * subsultans denticalatus hamatus, n.s.? equinus sylvaticus limosus clunipes ochripes nivalis, n.s. nigerrimus, n.s. Phora * A. incrassata B. thoracica bicolor nigra flava lutea C. crassicornis abdominalis, Fall. E. debilis, n.s. G. Dauci, f. [Meig] Conicera atra, m. } similis, n.s. F. aterrima galeata, n.s.
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Taken at Tullymore Park, and on the Mountains of Mourne.

Orphnephila devia Sciara bicolor Diceromyia oscillans Limnobia 4-notata Tachydromia glivipes	Callomyia elegans, f. Pipiza interrupta, n.s. Sphagina clunipes Medeterus alpinus, n.s. Dolichopus paeillatus atratus	Dolichopus rupestris, n.s. Gonops 4-fasciata Sapromyza inusta Phytomyia litura, Sapromyza litura, Meig. }
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Among the Sandhills, Dundrum Bay.

Thereva annulata	Myopa ferruginea Stomoxys Siberita	Meromyza viridula, n.s.
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County Wicklow, Vale of Clara; Avondale, and the Seven Churches.

Orphnephila devia Limnobia picta Dolichocheza sylvicola Bibio dorsalis Asilus westivus Bombylius minor Hilara matrona, n.s. Tachydromia lutea pectoralis cursitans	Trichina clavipes Medeterus alpinus Diaphorus Winthemi Porphyrops crassipes Dolichopus plumipes atratus cyaneus patellatus urbanus Sphagina clunipes	Dryomyza anilis Sepsis superba Ortalis Syngenesiae Tephritis Florescentiae Lauxania cylindricornis Ochthera Mantis Agromyza securicornis flavo-notata, n.s.
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In the County Galway.

Orphnephila devia	Callomyia antennata leptiformis	Sapromyza femorella, Fall.
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Taken in different parts of England.

Ceratopogon pictus Sciophila pictipennis, n.s. Bibio fulviventris leucopterus albipennis varipes hybridus, n.s.	Dioctria Baumhaueri Tachypeza Graminum Myopa pusilla occulta Pipunculius modestus, n.s. Cordylura apicalis Lauxania longipennis	Dorycera Graminum Tetanocera cucularia var. β . 7. Eurina lurida Camarota aurifrons, n.s. Borborus pedestris
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On the Sands of Portmarnock, near Dublin.

Pipunculius sylvaticus Thereva annulata Scatophaga decipiens	Lucina fasciata. Psila atra Chlorops fulvifrons, n.s.	Ephydra puncto-nervosa
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ABBREVIATIONS.

B. E. Curtis' British Entomology.
St. Stephens' Systematic Catalogue.
z. J. Zoological Journal, No. XIX.
The remaining synonyms are from Meigen, unless otherwise expressed.

NOTES.

Culex detritus. *Nigro-fuscus, abdomine pallido-annulato, ventre trifariam fusco-punctato, femoribusque basi luteis.*

Size of *C. pipiens*. Palpi of male rather thick, as long as the proboscis. Wings thickly clothed with dusky black scales: disk of the thorax nearly naked.

In multitudes during the day among hedges on the sea-coast: in the evening, in columns about the tops of trees, appearing like smoke at the distance of a furlong.

Anopheles plumbeus.

Probably a small variety of *A. bifurcatus*, but my original specimens have fallen a prey to Psoci.

Half the size of the preceding: glossy black: wings hyaline, nervures light brown, yellowish at the base: the long fore coxæ, all the trochanters, and the base of the hinder thighs yellow: face, mouth, and antennæ yellow-ferruginous, tip of the last brown.

SEPSIS. B.

S. putris. *Nigra, nitida, pedibus concoloribus*. Mas. *Metatarso antico brevi incrassato, hypopygio brevius setoso*.

Fore thighs with a strong tooth and spines beneath, the middle of the fore shanks within emarginate, with a flattened brown tubercle: the tufts of curled hairs on each side of the hypopygium are not half as long as the abdomen.

S. superba. *Nigra, nitida, pedibus concoloribus*. Mas. *Metatarso antico longissimo, hypopygio longius setoso*. (Long. .125.)

Half as large as the preceding, and very like it: the fore thighs are twisted and armed below with four spinous teeth in a cluster: the fore shanks are deeply notched, with a strong tooth on the inner side; above this a spine, a small tooth nearer the base; before the tip on the outer side is a long spine: the fore metatarsus is very long and straight, the next joint is the shortest: the tuft of hairs on each side of the hypopygium is as long as the abdomen.

The male of this very distinct species was taken near Holywood, and again in Wicklow.

S. minor. *Nigra, nitida, pedibus concoloribus*. Mas. *Tarsis simplicibus, hypopygio nudo*.

Varies from one-half to one-fifth of the size of *S. putris*: fore thighs of the male have a few bristles below: the fore shanks have a bifid spine about the middle.

Occurs in company with *S. putris*, and is often almost as common.

Tephritis Plantaginis. *Flavido-cinerea, capite, scutello, pedibusque, fulvis, alis ferrugineo-reticulatis maculâ costali geminatâ nigra*. (Long. .22.)

Borer of the female black-brown: wings reticulate with ferruginous, outwardly the ground colour is ferruginous, with circular white spots; about the middle of the rib two black spots divided by a white one: the transverse nervures are approximate in three portions of the wing, the proportion of the dark colour is greatest,

sometimes appearing as three tolerably defined spots; the double costal spot forms the nucleus of one, another larger embracing the whole tip of the wing, the third surrounding the ordinary transverse nervure.

This species occurs on the sea-coast, in spots overgrown with *Plantago maritima*.

T. Centaurea and *T. Onopordinis* are one species, all intermediate varieties occurring.

Lauxania amica. *Nigra, subænea, vitta frontali cupreâ, genubus tarsisque posticis fuscis, alis subhyalinis*. (Long. .14.)

Smaller than *L. cylindricornis*, with ferruginous antennæ (short as in *L. longipennis*), the seta scarcely pubescent: face glossed with dull white: above the base of the antennæ is a transverse line, coppery or reddish: the wings are entirely obscure hyaline, or with a very faint yellowish tinge.

L. longipennis, *Meig.* *L. basalis*, *Steph.?*

L. sordida. *Ferruginea, nitida, anticis femoribus apice tarsisque fuscis, alis luteis*. (Long. .2.)

Antennæ short as in *L. longipennis*, but the seta scarcely pubescent abdomen short, broad, and rounded, with scattered black hairs.

PHYLLOMYZA.

Antennæ deflexæ, articulo ultimo oblongo compresso, apice obtuso, basi setâ, dorsali pubescente: hypostoma subdescendens planum nudum: oculi distantes rotundi: abdomen ovatum quinque-annulatum: alæ deflexæ nervo longitudinali primo duplicato.

1. *Ph. litura*. *Sapromyza litura*. *Meig.*
Inhabits oak trees; Tullymore park.

Heteroneura spurca. *Ferruginea, nitida, occipite bimaculato, alis apice nervoque transverso late infuscatis*. (Long. .17+.)

This species differs from the others in having the transverse nervures rather distant, the double subcostal nervure more obviously divided, and the face is a little more inclined inwards; but there is no other genus with which it can be so well placed: the third joint of the antennæ has a dusky spot above, the back of the head two large brown spots: the abdomen in the female ends in an arti-

culated style: the segments are darker in the middle: face and legs paler: wings yellowish, the tip and transverse nervure surrounded with brown.

The first longitudinal nervure in this genus is distinctly doubled, though the branches are generally very near each other: in general character it seems rather related to *Psila* or to *Palloptera* than to any of the genera near which it stands in Meigen.

Stegana annulata. *Nigra, nitida, alis fuliginosis, hypostomate pectore pedibusque pallidis, horum annulo nigro.* (Long .14.)

The tips of all the thighs and the base of the hinder shanks black.

Camarota aurifrons. *Nigra, pedibus luridis, thorace opaco punctato, fronte glabra lutea.* (Long. .1.)

Face pale yellow: antennæ black, the base ferruginous: front shining glabrous, except a single series of very fine hairs near the margin of each eye, the raised triangle is golden, the rest of the front deep orange: poisers dusky: wings brown: the fore legs, the ends of the shanks, and the feet, are lighter coloured than the rest.

Taken in oak copses near Bexley.

Meromyza viridula. *Elongata, dilute prasina; vittis thoracis tribus discretis, scutelli et abdominis unicâ nigris.* (Long. .22; dilat. .35.)

Elongate, the front more produced than in the rest (approaching to the genus *Eurina* in this respect), palpi immaculate, a black dot on the vertex: back of the head immaculate, or with two small reddish lines: stripes of the thorax separate, the middle one continued over the scutel, all with a greyish shade: dorsal line of the abdomen not extending to the base, a dot on each side of the same colour: breast with two pale ferruginous spots: legs immaculate green: wings hyaline, with green nervures.

M. variegata.

In the pair of this species which I possess, the ground colour is tawny yellow without any greenish tinge: the bands of the thorax are ferruginous, the metathorax and markings of the vertex and abdomen black: the front less produced than in any of the others.

Chlorops lateralis. *Straminea, triangulo frontali atro, thoracis abdominisque dorso antennisque nigris, pectore maculato.* (Long. .16.)

Head shaped as in the genus *Therina*, the face being concave, and the margin of the mouth sharply projecting; but the front and mouth are naked: head yellow, front more orange, triangle of the vertex very large, not touching the eyes, in front with a produced point almost reaching to the antennæ: disk of the thorax, scutel, and abdomen above greenish black not shining: the breast has two large black spots, and above these a chain of smaller ones running from the neck to the base of the hind coxæ: legs yellow, mottled with ferruginous: the thighs generally with an oblong spot, blacker in the fore pair; a faint ring round the hind shanks, and the tips of the feet dusky: poisers milk-white: wings hyaline with blackish nervures. (To division A.)

C. fulvifrons. *Nigra, nitida, pubescens, fronte et antennis ferrugineis, tibiis tarsisque fuscis.* (Long. .1.)

(To division A.) Size of *C. maura*: face a little impressed: triangle of the vertex extending to the middle of the front, black behind, in front passing into ferruginous: seta of antennæ pale, the base dusky: wings obscure hyaline, nervures yellowish brown, colourless towards the tip: poisers milk-white.

C. agnata. *Nigra, nitida, antennis pectore pedibusque ferrugineis fusco-variis, scutello flavo.* (Long. .12.)

Resembles *C. Cereris*, is smaller: the hypopygium is not inflated nor ferruginous: the base of all the thighs and a band round the hind shanks black, fore shanks at the tip, fore feet entirely, and the end of the rest dusky: the breast is more spotted and the front darker: the antennæ dusky at the tip. (To division A.)

Agromyza flavo-notata. *Nigra, scutello flavo.*

(To division C. a.) Perhaps a variety of *A. scutellata*.

Leucopis obscura. *Canescens, thorace immaculato, antennis pedibusque nigris, metatarsis posticis luteis.* (Long. .08.)

Half the size of *L. puncticornis*, colour dark grey: poisers cream-colour: on the vertex are a few bristles.

Notiphila madizans. *Fall.? Obscure ænea, abdomine opaco plano, antennis basi femoribus anticis pedibusque posterioribus ferrugineis.* (Long. .11; dilat. .18.)

Abdomen oblong and flattened, rugulose, first segment very short, almost concealed, 4th large, 5th minute: wings not longer than the abdomen, obscure, with the transverse nervure dusky: face whitish: fore shanks and feet black.

Not uncommon on grass.