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LIII. An abstract of characters of Ochseuheimer's Genera of the Lepidoptera of Europe; with a list of the species of each genus, and reference to one or more of their respective icones

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LIII. *An Abstract of the Characters of Ochseneimer's Genera of the Lepidoptera of Europe; with a List of the Species of each Genus, and Reference to one or more of their respective Icones.* By J. G. CHILDREN, F.R.S. L. & E. F.L.S. &c.

[Continued from p. 296.]

Genus 47. CYMATOPHORA, *Ochs.*, *Treitsch.*

TETHEA, *Ochs.*

BOMBYCIÆ, *Hüb.*

Wings deflexed.

Body sub-pilose.

Antennæ filiform in both sexes; in the male cylindrical, and very large; in the female flattened.—*Godart, Dup.**

FAM. A. Anterior wings with the posterior margin incurved, and the posterior angle acute, pointed.

Species.

Icon.

- | | |
|----------------------------------|-----------------------------------|
| 1. <i>Cym. Ambusta</i> , Fab.... | Ernst, VII. Pl. CCXCV. f. 500. |
| | a. c. (b. var.) |
| 2. — <i>Retusa</i> , Linn..... | Ernst, VII. Pl. CCLIX. f. 402. d. |
| 3. — <i>Subtusa</i> , Fab..... | Ernst, VII. Pl. CCLIX. f. 402. |
| | a—c. |

FAM. B. a. Anterior wings elongate, with cancellated markings.

- | | |
|--------------------------------|------------------------------------|
| 4. <i>Cym. Oo</i> , Linn. | Hüb. Noct. Tab. 41. f. 195. (fœm.) |
| 5. — <i>Xanthoceros</i> , Hüb. | Ernst, VI. Pl. CCXIV. f. 291. |

FAM. B. b. Wings broad, elongate, variegated, with wavy markings.

- | | |
|------------------------------------|-----------------------------------|
| 6. <i>Cym. Ruficollis</i> , Fab... | Ernst, VI. Pl. CCXLII. f. 358. |
| 7. — <i>Diluta</i> , Fab. | Ernst, IV. Pl. CLXI. f. 208. |
| 8. — <i>Bipuncta</i> , Borkh. | Ernst, VIII. Pl. CCCIX. f. 535. |
| 9. — <i>Fluctuosa</i> , Hüb. | Ernst, VIII. Pl. CCCIX. f. 534. |
| 10. — <i>Octogesima</i> , Hüb. | Ernst, VIII. Pl. CCCVIII. f. 532. |
| 11. — <i>Or</i> , Fab. | Ernst, VIII. Pl. CCCVIII. f. 533. |
| 12. — <i>Flavicornis</i> , Linn. | Ernst, VI. Pl. CCXLIII. f. 359. |

* We have added this character, derived from the *Antennæ*, from Dupouchel's continuation of Godart's *Lépidoptères de France*; as it seems to prevail in all the species quoted by Treitschke, as composing this genus. Miserably deficient as Ochseneimer's generic characters generally are, those of his successor, thus far at least, are still more so. Indeed his genera can only be satisfactorily determined by examining the principal species included, respectively; in them,—a labour we have neither leisure nor inclination to undergo. We shall therefore give Treitschke's characters as we find them, with such additions from other quarters as we can safely rely on, referring our readers to the Species themselves, or their Icones, for further means of distinguishing the several groups.

FAM. B. c. Anterior wings broad, short, with faint, wavy markings.

- | Species. | Icon. |
|----------------------------------|---|
| 13. Cym. <i>Saliceti</i> , Hübn. | Ernst, VI. Pl. CCXL. f. 352.
— <i>a.</i> Larva.— <i>b.</i> Pupa. |
| 14. — <i>Congener</i> , Hübn. | Hüb. Noct. Tab. 135. f. 617.
(fœm.) |
| 15. — <i>Scoriacea</i> , Esper. | Ernst, VII. Pl. CCLXXXIV.
f. 469. |

Genus 48. EPISEMA, Ochs. (*Steph.*)

GRAPHIPHORÆ, Hübn. HETEROMORPHÆ, Hübn.

Legs very hairy; *tibiæ* with spurs.

Wings elongate; *anterior* with the hinder margin entire, deflexed; *cilia* long.

Antennæ rather elongate, not curved, bipectinated to the apex in the males, simple in the females: *head* exserted, not very small: *thorax* slightly crested with transverse fasciæ: *abdomen* rather stout, with a simple tuft at the apex.

Palpi elongate, very pilose, biarticulate, the basal joint large, the terminal very slender, elongate, acute, scaly: *maxillæ* short.

Larva cylindric, very fleshy and robust, not tuberculate; the *hinder legs* perfect.

Pupa folliculated*.

- | Species. | Icon. |
|--------------------------------------|---|
| 1. Ep. <i>Cæruleocephala</i> , Linn. | Ernst, V. Pl. CLXXXVI. f. 242. |
| 2. — <i>I. cinctum</i> , Hübn. | Hüb. Noct. Tab. 30. f. 144.
(mas.) |
| 3. — <i>Trimacula</i> , Hübn. | Hüb. Noct. Tab. 30. f. 141. (mas.)
142. (fœm.) |
| 4. — <i>Tersa</i> , Hübn. | Hüb. Noct. Tab. 30. f. 140. (fœm.) |
| 5. — <i>Graminis</i> , Linn. † | Ernst, VI. Pl. CCLVII. f. 395. |

Genus

* Characters chiefly from Stephens.

† CHARÆAS, Steph.

"*Palpi* very short, triarticulate, the two basal joints densely squamous, the terminal slightly exposed, the basal joint shorter and stouter than the following, which is stout at the base and gradually attenuated to the apex, the terminal slightly elongate, acute, or ovate acuminate: *maxillæ* long. *Antennæ* simple in the females, more or less pectinated in the males: *head* small, squamous: *thorax* robust, not crested: *body* short, slightly carinated on the back; the apex of the males with a tuft: *wings* generally denticulated on the hinder margin, sometimes rounded; *posterior* not very large, ovate-triangular, usually whitish in the males, fuscous in the females. *Larva* naked, radicivorous: *pupa* subterraneous."—*Steph. Illust. Brit. Ent. Haussl.* II. 108.

The British species which Stephens inserts in this genus, are: *Noct. cespitis*,

Genus 49. AGROTIS, *Ochs.* (*Curtis, Steph.*)

AGROTIS, Hübn.
(NOCTUA, Linn.)

GRAPHIPHORÆ, Hübn. (*Steph.*)
PHALÆNA, Don.)

Legs, anterior the shortest: *tibiæ*, anterior very short, with a flat spine on the inner side: *tarsi* with five joints.

Wings horizontal and crossing each other when at rest; the upper generally narrowed towards the base.

Antennæ long, setaceous, strongly pectinated in the males, especially towards the base; merely covered with bristles at the apex; simple and pubescent in the females.

Head small, thickly clothed with scales: *thorax* densely squamous, not crested.

Maxillæ as long as the antennæ, robust, furnished with tentacula at the apex.

Palpi, labial nearly vertical, divaricating, very robust, thickly clothed with long scales.

Larva with six *pectoral*, eight *abdominal*, and two *anal* feet; subterranean, naked, radicivorous.

Pupa subterranean. *

Curtis subdivides this genus into two groups:

A. Antennæ pectinated in the males.

a. nearly to the apex.

This subdivision contains the following species:

Ag. nigra, Haw. — *fusca*, Haw. — *cinerea*, Hübn., Curtis.

b. pectinated only half their length: in this are contained, *Ag. suffusa*, Hübn. — *æqua*, Hübn. — *subterranea*, Haw. — *monostigma*, Curtis. — *segetum*, Hübn. — *affinis*, — *elavigera*, Haw. — *pupillata*, Haw. — *sagittifera*, Hübn. — *hibernica*, Haw. MSS. — *pascua*, Curtis.

B. Antennæ of the males producing fascicles of hair only.

Ag. cespitis, Hübn. — *autumnalis*, Curt. — *exclamationis*, Linn. — *picea*, Haw. — *corticea*, Hübn. — *ruris*, Hübn. — *nigricans*, Linn. — *valligera*, Fab. — *obelisca*, Hübn.? — *albilinea*, Haw. — *lineolata*, Haw. — *radius*, Haw. — *radiolus*, Haw. MSS. — *subgothica*, Haw.

cespitis, Wien. Verz.—*Ch. confinis*, Steph.—*Bo. fuscus*, Haworth.—*Noct. nigra*, Haw.—*Ph. Bo. Graminis*, Linn.—Stephens observes, that the typical species of this genus are distinguished by having their wings more or less denticulated, but in *Ch. Graminis* (which ought probably to be separated from the rest as a distinct genus) they are entire.

* Characters from Curtis and Stephens.

Species.	Icon.
1. <i>Ag. Rectangula</i> , Fab.	Hüb. Noct. Tab. 24. f. 110. (fœm.)
2. — <i>Multangula</i> , Hüb. n.	Hüb. Noct. Tab. 25. f. 116. (mas.)
3. — <i>Ocellina</i> , Hüb. n.	Ernst, VII. Pl. CCLXVI. f. 420.
4. — <i>Lidia</i> , Hüb. n.	Hüb. Noct. Tab. 149. f. 649. (fœm.) 650. (mas.)
5. — <i>Vitta</i> , Hüb. n.	Hüb. Noct. Tab. 115. f. 533. (mas.) 534. (fœm.)
6. — <i>Aquilina</i> , Hüb. n.	Hüb. Noct. Tab. 29. f. 135. (mas.) Tab. 115. f. 535. (mas.)
7. — <i>Tritici</i> , Linn.	Hüb. Noct. Tab. 101. f. 479. (mas.) Tab. 136. f. 623. (fœm.)
8. — <i>Fumosa</i> , Fab.	Ernst, VI. Pl. CCLVI. f. 391.
9. — <i>Obelisca</i> , Hüb. n.	Ernst, VII. Pl. CCLXXV. f. 443.
10. — <i>Buris</i> , Hüb. n.	Ernst, VII. Pl. CCLXXVI. f. 446. b.
11. — <i>Saucia</i> , Hüb. n.	Ernst, VII. Pl. CCLXXVIII. f. 453.
12. — <i>Æqua</i> , Hüb. n.	Hüb. Noct. Tab. 122. f. 564. (mas.)
13. — <i>Suffusa</i> , Fab.	Ernst, VII. Pl. CCLXXVII. f. 452.
14. — <i>Annexa</i> ,*	— — —
15. — <i>Segetum</i> , Hüb. n.	Ernst, VII. Pl. CCLXXVII. f. 448. a.
16. — <i>Corticea</i> , Hüb. n.	Hüb. Noct. Tab. 31. f. 145. (mas.)
17. — <i>Exclamationis</i> , Linn.	Ernst, VII. Pl. CCLXXV. f. 442.
18. — <i>Valligera</i> , Fab.	Ernst, VII. Pl. CCLXXIV. f. 441.
19. — <i>Crassa</i> , Hüb. n. †	Ernst, VII. Pl. CCLXXVI. f. 446. a.
20. — <i>Forcipula</i> , Hüb. n.	Hüb. Noct. Tab. 27. f. 128. (fœm.) Tab. 118. f. 547. (mas.)
21. — <i>Signifera</i> , Hüb. n.	Ernst, VI. Pl. CCLIII. f. 381.

* *Agr. alis anticis fuscis, vittâ marginis superioris apiceque pallidioribus, lineolâ maculâs duas jungente ordinarias atrâ.*

† ΓΡΑΨΙΦΟΡΑ, Steph.

“*Palpi* moderate, ascending, parallel, densely clothed with scales, the base pilose, the terminal joint distinct, squamous; triarticulate, the basal joint curved; the second longer than the first; slightly attenuated, the terminal small, elongate-ovate, a little acuminate: *maxillæ* as long as the antennæ. *Antennæ* various, moderate, generally simple, with the lower surface pubescent in the females; usually ciliated beneath in the males, or deeply bipectinated, with the pectinations abbreviated towards the apex, sometimes serrated and pubescent beneath: *head* large, scaly: *thorax* slightly crested: *wings* generally rather broad, slightly rounded behind, horizontal during repose, not denticulated; mostly griseous or dusky, with dark spots towards the costa. *Larva* exposed, usually with pale lateral stripes, naked: *pupa* subterranean.”

—*Steph. Illust. Brit. Ent. Haust.* II. p. 128.

Species.	Icon.
22. Ag. <i>Sagittifera</i> , Hübn.	Hübn. Noct. Tab. 114. f. 532.
23. — <i>Ripa</i> , Hübn.	Hübn. Noct. Tab. 151. f. 702. 703. (mas.)
24. — <i>Cursoria</i> , Hübn.	Hübn. Noct. Tab. 116. f. 540. (mas.)
25. — <i>Cinerea</i> , Hübn. ...	Curtis, Brit. Ent. IV. pl. 165. Hübn. Noct. Tab. 33. f. 155. (mas.) f. 156. (fœm.)
26. — <i>Tenebrosa</i> , Hübn.*	Ernst, VI. Pl. CCLV. f. 387.
27. — <i>Pancreatii</i> , Hübn.	Hübn. Noct. Tab. 84. f. 391. (fœm.)
28. — <i>Æthiops</i> , Hübn. †	Ernst, VII. Pl. CCLXXXVIII. f. 455. a—c.
29. — <i>Lutulenta</i> , Hübn.	Hübn. Noct. Tab. 33. f. 159. (fœm.)
30. — <i>Decora</i> , Hübn.	Hübn. Noct. Tab. 9. f. 45. (mas.)
31. — <i>Fimbriola</i> , Hübn.	Hübn. Noct. Tab. 132. f. 603. (mas.)
32. — <i>Birivia</i> , Hübn. ...	Hübn. Noct. Tab. 9. f. 42. (fœm.) Tab. 138. f. 631. (fœm.)
33. — <i>Grisescens</i> , Fab. †	— — —
34. — <i>Fugax</i> , Ochs.	Hübn. Noct. Tab. 9. f. 44. (mas.)
35. — <i>Renigera</i> , Hübn. §	Hübn. Noct. Tab. 82. f. 384. (mas.)
36. — <i>Dilucida</i> , Hübn.	Hübn. Noct. Tab. 82. f. 383. (mas.)
37. — <i>Lucipeta</i> , Fab. ...	Ernst, VI. Pl. CCXXXV. f. 341.
38. — <i>Pyrophila</i> , Fab. §	Ernst, VI. Pl. CCXXXV. f. 342. a.
39. — <i>Latens</i> , Hübn. § ...	Hübn. Noct. Tab. 89. f. 419. (mas.) Tab. 117. f. 546. (mas.)

* RUSINA, Stephens.

“*Palpi* ascending, densely squamous, with the terminal joint exposed, rather elongate, composed of three somewhat slender joints, the terminal one being most slender: the basal joint about half the length of the second and a little curved, the terminal one-third the length of the preceding, elongate, obtuse: *maxillæ* moderate. *Antennæ* deeply bipectinated in the males, the pectinations suddenly abbreviated towards the apex; ciliated in the females: *head* small, pilose: *thorax* not very stout, clothed with loose hair-like scales, subcrested: *wings* horizontal, entire; the *anterior* elongate, subtrigonal, narrowed at the base, with the shoulder a little rounded; *posterior* orbiculate-triangular, slightly excised towards the costa: *body* slender, tufted at the apex in the males: *legs* short, robust. *Caterpillar* subterranean: *pupa* short, spinose at the apex, subterranean.”—*Steph. Illust. Brit. Ent.* II. 111.

Stephens gives but one British species, as belonging to this genus, *Bo. ferruginea*, Esper., quoted by Treitschke, as synonymous with *N. tenebrosa*, Hübn.

† *CHARÆAS nigra*, Steph.

‡ Agr. *Alis cinereis*: *maculis ordinariis pallidis, strigâque submarginali punctorum atrorum.*

§ *GRAPHIPHORA*, Steph.

Genus 50. NOCTUA, *Treitsch.*

GRAPHIPHORA, Ochsen. (Steph.) GRAPHIPHORÆ, Hübn.

Obs. If instead of merely changing Ochsenheimer's name for this genus from Graphiphora to Noctua, out of compliment, as it seems to Schrank, and "a highly esteemed entomological writer in the *Allgemeinen Literaturzeitung*,"—M. Treitschke had favoured us with good generic characters for the group of insects he has placed in it, he would have performed an acceptable service to Entomology: but all that he tells us is, literally, that these Moths have a tuft on the back (*Ruckenschopf*), that their anterior wings are deflexed and somewhat overlap each other when at rest, and are decorated with reniform spots, and markings resembling Oriental characters: that the larvæ are variegated, and have strongly marked lateral stripes, and live chiefly on the leaves of low plants, but not on their roots; and that the metamorphosis is subterranean!—Thirteen of the nineteen species enumerated by Treitschke, as constituting his genus Noctua, are comprehended in Stephens's genus Graphiphora, the characters of which we have already given in the note to the 19th species, *crassa*, of the preceding genus, *Agrotis*; to which we shall add, in this place, a few extracts from his observations on the Graphiphoræ. Like *Agrotis*, this genus, Stephens remarks, is chiefly composed of dingy and similarly marked species, though amongst them may be noticed a few of delicate and somewhat vivid colours: these two genera are evidently closely allied, and several of the species are included in the former by Ochsenheimer and Treitschke, while Schrank and Boisduval agree in uniting the whole under the incorrect appellation Noctua (a name which has also been employed by Treitschke in lieu of Graphiphora, as just stated, although justly restored by Savigny to a genus of Owls); they may, however, be distinguished by the superior width and glossiness of the wings, which have usually but two stigmata, and by the general simplicity of the antennæ.—*Steph. l. c.*

Species.

Icon.

- | | |
|---------------------------------|---------------------------------|
| 1. <i>N. Ravida</i> , Hübn. ... | Ernst, VII. Pl. CCLXVI. f. 421. |
| 2. — <i>Augur</i> , Fab. | Ernst, VI. Pl. CCLV. f. 388. |
| 3. — <i>Sigma</i> , Hübn..... | Ernst, VIII. Pl. CCCXI. f. 542. |
| 4. — <i>Baja</i> , Fab..... | Ernst, VIII. Pl. CCCXI. f. 540. |
| | 5. <i>N. Can-</i> |

Species.	Icon.
5. <i>N. Candelisequa</i> , Hüb.	Hüb. Noct. Tab. 85. f. 397. (fœm.)
6. — <i>Brunnea</i> , Fab. ...	Hüb. Noct. Tab. 26. f. 121. (mas.)
7. — <i>Dahlia</i> , Hüb. ...	Ernst, VII. Pl. CCLXVIII. f. 428.
8. — <i>Punicea</i> , Hüb. ...	Hüb. Noct. Tab. 25. f. 115. (fœm.)
9. — <i>Festiva</i> , Hüb. ...	Ernst, VIII. Pl. CCCXI. f. 541.
10. — <i>Polygona</i> , Fab. ...	Ernst, VII. Pl. CCLXVI. f. 423. a.
11. — <i>Depuncta</i> , Linn. ...	Hüb. Noct. Tab. 26. f. 120. (mas.) Tab. 107. f. 502. (mas.)
12. — <i>Rhomboida</i> , Esper.	Ernst, VII. Pl. CCLXVII. f. 425. a.
13. — <i>Gothica</i> , Linn.* ...	Ernst, VII. Pl. CCLXVI. f. 422.
14. — <i>C. Nigrum</i> , Linn.	Ernst, VII. Pl. CCLXVII. f. 424.
15. — <i>Triangulum</i> , Ochs.	Ernst, VII. Pl. CCLXVII. f. 427.
16. — <i>Tristigma</i> , Ochs. ...	Ernst, VII. Pl. CCLXVII. f. 425. b.
17. — <i>Flammatra</i> , Fab.	Hüb. Noct. Tab. 26. f. 124. (mas.)
18. — <i>Musiva</i> , Hüb. ...	Hüb. Noct. Tab. 25. f. 118. (mas.)
19. — <i>Plecta</i> , Linn.	Ernst, VII. Pl. CCLXV. f. 419.

Genus 51. TRIPHÆNA, Ochs. (Steph.)

Antennæ simple in both sexes, ciliated beneath in the males.

Palpi ascending, compressed, parallel, triarticulate, the two basal joints clothed with very compact capitate scales, terminating acutely in front, the apical somewhat exposed; the basal joint shorter than the following, and curving upwards; the second as long as the other two, a little bent inwards towards the apex; the terminal short, rather slender, somewhat attenuated at the tip, which is obtuse: *maxillæ* very long.

* SEMIOPHORA^a, Steph.

" *Palpi* short, very hairy at the base, the terminal joint exposed and scaly; triarticulate, the basal joint slightly bent, stout, not half as long as the second, which is elongate, slightly attenuated, the terminal one minute, ovate, subtruncate: *maxillæ* as long as the antennæ. *Antennæ* bipectinated in the males, serrated in the females, each joint producing a bristle on both sides: *head* small, pilose: *thorax* stout, woolly, not crested: *body* not very stout, short: *wings* entire, slightly deflexed, *anterior* elongate, narrowed at the base, rather acute at the tip, *posterior* abbreviated, subtrigonal: *legs* short: *femora* woolly. *Larva* naked, exposed: *pupa* subterranean.^b—*Steph. Illust. Brit. Ent. Haust.* II. p. 138.

Stephens adds that this genus differs from *Graphiphora* and *Agrotis* by the wooliness of its smooth thorax, the brevity of the posterior wings, and by reposing with the anterior ones deflexed.

^a Σημισιον *signum*, Φεσφ *fero*.

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Wings horizontal, entire; *anterior* elongate-lanceolate, rounded posteriorly, with two stigmata; *posterior* orbiculate-triangular, slightly emarginated, large, folded during repose, of lively colours, usually luteous with black margins.

Head densely clothed with scales; *thorax* not crested, with large anterior tippets: *body* rather stout, flat on the back, downy at the base.

Larva naked, cylindric, with sixteen legs.

Pupa subterraneous, not folliculated*.

Species.	Icon.
1. Tr. <i>Interjecta</i> , Hübn.	Hübn. Noct. Tab. 23. f. 107. (mas.)
2. — <i>Comes</i> , Hübn.	Ernst, VII. Pl. CCLXXII. f. 435. c. f. g.
3. — <i>Subsequa</i> , Hübn....	Ernst, VII. Pl. CCLXXII. f. 435. a. d. e.
4. — <i>Pronuba</i> , Linn....	Ernst, VII. Pl. CCLXX. and CCLXXI. f. 433. c. d. e. i.
5. — <i>Innuba</i> , Treitsch.	Ernst, VII. Pl. CCLXXI. f. 434. f—h.
6. — <i>Fimbria</i> , Linn. ...	Ernst, VII. Pl. CCLXIX. f. 432.
7. — <i>Ianthina</i> , Fab. ...	Ernst, VII. Pl. CCLXX. f. 433.
8. — <i>Linogrisea</i> , Fab.	Ernst, VII. Pl. CCLXXII. f. 436.

Genus 52. AMPHIPYRA, Ochs., Treitsch.

PYROPHILÆ, Hübn.

Wings, *anterior* somewhat deflexed, half covering the body when at rest; surface glossy, rather inclining to a brassy hue, without distinct spots.

Antennæ long, pectinated; pectinations very short, so as to give the organ a crenate appearance.

Body compressed, obtuse; back smooth; small, lateral tufts of hair in the male.

Larva naked, or very slightly hairy.

Species.	Icon.
1. Amp. <i>Tragopogonis</i> , L.	Ernst, VI. Pl. CCXXXIV. f. 338.
2. — <i>Tetra</i> , Hübn. ...	Hübn. Noct. Tab. 8. f. 39. (fœm.)
3. — <i>Livida</i> , Fab.	Ernst, VI. Pl. CCXXXIII. f. 337. g. h.
4. — <i>Cinnamomea</i> , Borkh.	Ernst, VI. CCXXXIV. f. 339. a—e.
5. — <i>Pyramidea</i> , Linn.	Ernst, VI. CCXXXIII. f. 337.
6. — <i>Perflua</i> , Hübn....	Hübn. Noct. Tab. 8. f. 35. (fœm.)
7. — <i>Spectrum</i> , Hübn.	Ernst, VIII. Pl. CCCXX. f. 562.

* Characters from Stephens.

[To be continued.]

LIV. Reply