

# THE ENTOMOLOGIST

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VOL. XXXIV.]

OCTOBER, 1901.

[No. 461.

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A CONTRIBUTION TOWARDS A REVISION OF THE  
BRITISH TORYMINA.

By P. CAMERON.

IN this paper I have only dealt with the species I have in my own collection, and mainly the species I have reared. It is really more a revision of the Scottish species; for, to prepare a thorough revision of the British species, it would be necessary to make a critical examination of the collection of the late Mr. Francis Walker, now in the British Museum. There is no British list with which a useful comparison can be made; but Thomson (*Hymen. Scand. iv.*) records fifty-nine species from Scandinavia, and Mayr, in his *Monograph of the European species* (*Verh. z.-b. ges. Wien, xxiv.*), describes seventy-eight

species. My work has been greatly facilitated, and the identity of the species placed beyond dispute, by the aid of a valuable series of types which I received from Prof. Gustav L. Mayr.

MONODONTOMERUS, *West.*

1. *M. obscurus*, *West.*

*M. obscurus*, Westwood, Phil. Mag. ii. 443; Mayr, Verh. z.-b. ges. Wien, xxiv. 68.

*Callimone pubescens*, Walker, Ent. Mag. i. 138.  
New Forest.

2. *M. dentipes*, *Boh.*

*Torymus dentipes*, Boheman, Vet. Ac. Handl. 1833, 335.

*Monodontomerus dentipes*, Walker, Ent. Mag. ii. 158?;  
Thomson, Hym. Scand. iv. 67.

One specimen from Mr. J. E. Fletcher taken on the windows of his house at Worcester.

DIOMORUS, *Walk.*

3. *DIOMORUS ARMATUS*, *Boh.*

*Torymus armatus*, Boh. Vet. Ac. Handl. 1833, 336.

*Diomorus nobilis*, Walker, Ent. Mag. ii. 159; Thoms. Hym. Scand. iv. 72, 1.

One example; Clydesdale. Bramble-stems.

SYNTOMASPIS, *Foer.*

*Syntomaspis*, Foerster, Hym. Stud. ii. 43.

4. *SYNTOMASPIS SAPHIRINA*, *Boh.*

*Torymus saphirinus*, Boheman, Vet. Ac. Handl. 1833, 371.

*T. caudatus*, Nees, Hym. Ich. Aff. Mon. ii. 60.

*Callimone affinis*, Walker, Ent. Mag. 1833, 133.

*C. littoralis*, Walker, *l.c.* 134.

*Syntomaspis saphirina*, Thomson, Hym. Scand. iv. 75, 3.

Common in galls of *Andricus terminalis*.

5. *SYNTOMASPIS PUBESCENS*, *Foer.*

*Torymus pubescens*, Foerster, Beitr. z. Mon. d. Ptero. p. xxx.

Two examples bred from galls of *Rhodites eglanteriæ*; Clydesdale. Not hitherto recorded as British.

6. *SYNTOMASPIS FASTUOSA*, *Boh.*

*Torymus fastuosa*, Boheman, Vet. Ac. Handl. 1833, 347.

*Callimone notatus*, Walker, Ent. Mag. i. 134.

*Syntomaspis fastuosa*, Mayr, Verh. z.-b. ges. Wien, xxiv. 78;  
Thoms. Hym. Sc. iv. 73.

Cladich, Loch Awe, June.

7. SYNTOMASPIS CYANEA, *Boh.*

*Torymus cyaneus*, Boheman, Vet. Ac. Handl. 1833, 366.

*Callimone eurynotus*, Walker, Ann. Mag. Nat. Hist. v. (2) 126.

*Syntomaspis cyanea*, Mayr, Verh. z.-b. ges. Wien, xxiv. 79 ;  
Thoms. Hym. Sc. iv. 74.

Not uncommon in galls of *Dryophanta longiventris*.

OLIGOSTHENUS, *Foer.*8. OLIGOSTHENUS STIGMA, *Fab.*

Ex Bedeguar galls, Cheshire.

HOLASPIS, *Mayr.*

*Holaspis*, Mayr (*non* Gray), Verh. z.-b. ges. Wien, xxiv. 83.

9. HOLASPIS MILITARIS, *Boh.*

*Torymus holaspis*, Boheman, Vet. Ac. Handl. 1833, 338.

*Holaspis militaris*, Mayr, z.-b. ges. Wien, xxiv. 85 ; Thom-  
son, Hym. Sc. iv. 70.

This genus has not been recorded from Britain before. I owe its record to Dr. T. A. Chapman, who sent me some galls of *Aulax rhœadis* from Hereford, from which the species was reared.

TORYMUS, *Dal.*

*Torymus*, Dalman, Vet. Ac. Handl. 1820, 135 ; Mayr, Verh.  
z.-b. ges. Wien, xxiv.

*Callimone*, Walker, Ent. Mag. i. 119.

Thomson (Hym. Sc. iv. 60) separates *Callimone* from *Torymus* through differences in the mandibles, the form of the metathorax and of the costal cellule, but these differences appear to me to merge so much into each other that I can hardly look upon them as of generic value. Thomson's *Callimone* represents the Section A of Mayr's Monograph.

10. TORYMUS ERUCARUM, *Schr.*

*Ichneumon erucarum*, Schrank, Enum. Ins. Austr.

*Torymus fulgidus*, Boheman, Vet. Ac. Handl. 1833, 345.

*Callimone cynipedis*, Walker, Ent. Mag. i. 119.

*Torymus erucarum*, Mayr, Verh. z.-b. ges. Wien, xxiv. 87 ;  
Thoms. Hym. Sc. iv. 86, 11.

Parton, Loch Ken, Clydesdale. Rare.

A parasite of *Aphilothrix radialis*.

11. TORYMUS FULGENS, *Fab.*

*Ichneumon fulgens*, Fabr. Ent. Syst. Supp. 230.

*Torymus fulgens*, Nees, Hym. Ichn. Aff. Mon. ii. 61 ; Mayr,  
Verh. z.-b. ges. Wien, xxiv. 88.

*Callimone rosaces*, Walker, Ann. Mag. Nat. Hist. xxii. 88.  
Rare. Clober, near Glasgow.

12. *TORYMUS CHRYSOCEPHALUS*, Boh.

*Torymus chrysocephalus*, Boheman, Vet. Ac. Handl. 1833, 340; Mayr, Verh. z.-b. ges. Wien, xxiv. 89.  
*Callimone rudis*, Walker, Ent. Mag. iv. 25.  
 Rare. Bishopton.

13. *TORYMUS ABDOMINALIS*, Boh.

*Torymus abdominalis*, Boheman, Vet. Ac. Handl. 1833, 343; Mayr, Verh. z.-b. ges. Wien, xxiv. 9.  
*Callimone angelicæ*, Walker, Ent. Mag. iv. 25.  
 Common in galls of *Biorhiza terminalis*, *Aphilothrix curvator*, *Spathogaster baccharum*, *Dryophanta divisa*.

14. *TORYMUS NOBILIS*, Boh.

*Torymus nobilis*, Boheman, Vet. Ac. Handl. 1833, 339; Mayr, Verh. z.-b. ges. Wien, xxiv. 92.  
*Callimone roboris*, Walker, Ent. Mag. i. 120.  
*C. regalis*, Walker, l.c. 119.  
*C. subterraneus*, Curtis, Brit. Ent. xii. t. 552.  
 Gloucester; London districts. Galls of *Aphilothrix radiceis*, *A. sieboldi* and *Biorhiza aptera*, all root galls.

15. *TORYMUS VENTRALIS*, Fonsc.

*Cynips ventralis*, Fonsc, Ann. Soc. Nat. xxvi. 286.  
*Callimone quadricolor*, Walker, Ent. Mag. i. 120.  
*Torymus ventralis*, Mayr, Verh. z.-b. ges. Wien, xxiv. 93.  
*T. affinis*, Foerster, Beitr. z. Mon. d. Ptero. xxix.  
 Eccles, Dumfriesshire. Rare.

16. *TORYMUS REGIUS*, Nees.

*Torymus regius*, Nees, Hym. Ichn. Aff. Mon. 1834, 55; Mayr, Verh. z.-b. ges. Wien, xxiv. 95.  
*T. nigricornis*, Boheman, Vet. Ac. Handl. 1833, 355.  
*Callimone inconstans*, Walker, Ent. Mag. ii. 159.  
*C. lateralis*, Walker, l.c. 159.  
*C. devoniensis*, Parfitt, Zool. 1856, 5074.  
 Common. Galls of *Cynips kollari*, *Biorhiza terminalis*, *Dryophanta folii*, *Spathogaster baccharum*.

17. *TORYMUS AZUREUS*, Boh.

*Torymus azureus*, Boheman, Vet. Ac. Handl. 1833, 369; Mayr, Verh. z.-b. ges. Wien, xxiv. 100; Thomson, Hym. Scand. iv. 84.  
 Perth; from fir-cones inhabited by *Eupithecia togata*.

18. *TORYMUS CAUDATUS*, Boh.

*Torymus caudatus*, Boheman, Vet. Ac. Handl. 1833, 365; Thomson, Hym. Scand. iv. 84.

A Scotch example without note of locality. Worcester; from cones of *Abies* (J. E. Fletcher).

Mayr unites *T. azureus* and *T. caudatus*, but Thomson regards them as extinct species. My examples appear to show a variation in the length of the ovipositor compared to the length of the body.

#### 19. TORYMUS BEDEGUARIS, L.

*Ichneumon bedeguaris*, Linné, Syst. Nat. ii. 939.

*Torymus försteri*, Ratzburg, Lehn. d. Forstins, i. 1844, 178.

*T. bedeguaris*, Mayr, Verh. z.-b. ges. Wien, xxiv. 101; Thomson, Hym. Scand. iv. 87.

Rare in the "bedeguar" galls of *Rhodites rosæ*. Thomson, l. c., regards *T. druparum*, Boh. sec. Mayr, bred from the fruit of *Prunus scandica*; and *T. elegans*, Boh. sec. Mayr = *varians*, Walker, Ent. Mag. i. 122.

*T. varians*, Walker, I am inclined, if I have correctly identified my specimens, to regard as a good species, and probably, as Mayr suggests, identical with *T. elegans*, Boh. It seems the more likely of *T. varians* being distinct from the bedeguar species from its different habits, it being a parasite on willow *Cecidomyiæ*.

#### 20. TORYMUS VALLISNIERII, sp. nov.

Viridis, abdomine supra cupreo, subtus testaceo; alis hyalinis; pedibus flavo-testaceis, tibiis posticis infuscatis.

Long. fere 2; terebra 2 mm.

Clydesdale; ex galls of *Nematus gallicola*, West. (*vallisnierii*, Htg.).

Scape of antennæ testaceous beneath; the flagellum shining, metallic purple, variegated with green; the third and fourth joints equal in length. Head dark purple, slightly variegated with green, shining, very minutely punctured. Thorax green, strongly and closely punctured, closely covered with a microscopic fuscous pubescence; the median segment almost impunctate, shining, bare, more purplish in tint than the mesonotum. Pleuræ green, closely punctured. Legs pallid yellow, the coxæ green, except at the apex, strongly punctured; the hinder femora in the middle distinctly, the hinder tibiæ slightly infuscated; the apex of the hinder tarsi infuscated; the longer spur of the hinder tibiæ scarcely one-fourth of the length of the metatarsus. Wings clear hyaline; the nervures yellow. Abdomen dark purple, except the basal segment, which is green, and the sides at the apex which are slightly tinted with green; the ventral surface at the base broadly testaceous; the rest green suffused with bronzy tints.

Comes nearest to *T. abbreviatus*, but that is a larger and stouter species, has the ovipositor longer, the thorax and abdomen much more bronzy and shining, the ventral surface not

testaceous, the legs are of a brighter colour, and the antennæ are not shining metallic.

No species of *Torymus* has been recorded from the galls of *Nematus gallicola*; but two species of *Eulophus* and one *Pteromalus* have been reared.

#### 21. TORYMUS IGNICEPS, Mayr.

Verh. z.-b. ges. Wien, xxiv. 103.

I have a specimen from Clober Wood, which agrees with Mayr's description, as well as an English example, differing, however, somewhat from it.

#### 22. TORYMUS ABBREVIATUS, Boh.

*Torymus abbreviatus*, Boheman, Vet. Ac. Handl. 1833, 357;  
Mayr, Verh. z.-b. ges. Wien, xxiv. 105, 20.

*T. euchlorus*, Boh. l.c. 359.

*Callimone chloromerus*, Walker, Ent. Mag. i. 128.

*C. æqualis*, Walker, l.c. 129.

*Torymus chlorinus*, Foerster, Beitr. z. Mon. d. Pter. xxx.

Rare. Cadder Wilderness; in galls of *Cecidomyia rosæ*. It is a variable species.

#### 23. TORYMUS FUSCIPES, Boh.

*Torymus fuscipes*, Boheman, Vet. Ac. Handl. 1833, 374;  
Mayr, Verh. z.-b. ges. Wien, xxiv. 108.

Two Clydesdale examples identical with a type from Mayr.

Mayr considers *T. chlorocopes*, Boh., as identical with *T. fuscipes*; but Thomson (Hym. Scand. iv. 85) considers the two to be distinct. With the material at my command I am unable to give an opinion.

#### 24. TORYMUS JUNIPERI, L.

*Ichneumon juniperi*, Linné, Fauna Suec. 408, 1635.

*Diplolepis juniperi*, Fab. Syst. Piez. 1804, 150.

*Torymus amethystinus*, Boheman, Vet. Ac. Handl. 370,  
1833?; Thomson, Hym. Sc. iv. 85.

Common in galls of *Hormomyia juniperina*, L. Clober Moor, Dumbartonshire.

#### 25. TORYMUS HIBERNANS, Mayr.

Verh. z.-b. ges. Wien, xxiv. 111, 26.

Rare. Clober; in galls of *Neuroterus lenticularis*, in which they are laid in the autumn.

#### 26. TORYMUS TIPULARIARUM, Zett.

*Torymus tipulariarum*, Zetterstedt, Ins. Lappon. 420; Mayr,  
Verh. z.-b. ges. Wien, xxiv. 111.

*T. pumilus*, Ratzburg, Ichn. d. Forstins. i. 180.

In the "rose" galls of *Cecidomyia salicis*.

27. TORYMUS MACROPTERUS, *Walker*.

*Callimone macroptera*, Walker, Ent. Mag. i. 124.

*Torymus purpurascens*, Nees, Hym. Ich. Aff. Mon. ii. 517.

*T. macropterus*, Mayr, Verh. z.-b. ges. Wien, xxiv. 114, 31.

Galls of *Rhodites spinosissima*; Troon, Arran; sand-hills at New Brighton. In galls of *Diastrophus rubi*; Worcester (J. E. Fletcher).

28. TORYMUS AURATUS, *Fons*.

*Cynips aurata*, Fons. Ann. Sc. Nat. xxvi. 284.

*Torymus viridissimus*, Boheman, Vet. Ac. Handl. 1833, 358.

*Callimone autumnalis* and *C. confinis*, Walker, Ent. Mag. i. 125.

*C. mutabilis*, Walker, l. c. 127.

*C. leptocerus*, Walker, l. c. 129.

*C. minutus*, Walker, l. c. 137.

*Torymus muscarum*, Nees, Hym. Ich. Aff. Mon. ii. 58.

*T. propinquus*, Foerster, Beitr. z. Mon. d. Pter. xxx.; Ratzburg, Ich. d. Forstins, iii. 223.

*T. appropinquans*, Ratzburg, l. c. 179.

*T. auratus*, Mayr, Verh. z.-b. ges. Wien, xxiv. 115.

*T. viridissimus*, Thomson, Hym. Scand. iv. 90, 18.

Common in many oak galls:—*Biorhiza terminalis*, *Andricus inflator*, *A. curator*, *A. cirratus*, *A. ramuli*, *A. 4-lineatus*, *Spathogaster baccarum*, &c.

29. TORYMUS AMCENUS, *Boh*.

*Torymus amcenus*, Boheman, Vet. Ac. Handl. 1833, 348; Mayr, Verh. z.-b. ges. Wien, xxiv. 117; Thomson, Hym. Sc. iv. 89, 15.

*Callimone formosus*, Walker, Ent. Mag. i. 122.

*C. scutellaris*, Walker, l. c. 123.

*Torymus compressus*, Foerster, Beitr. z. Mon. d. Pter. 1841, xxx.

Rare. In galls of *Aphilothrix radialis* and *Trigonaspis megaptera*. Clydesdale and Loch Awe.

30. TORYMUS SODALIS, *Mayr*.

*Torymus sodalis*, Mayr, Verh. z.-b. ges. Wien, xxiv. 120.

Not common. Clober; in galls of *Neuroterus lenticularis*.

31. TORYMUS DAUCI, *Curt*.

*Callimone dauci*, Curt. Brit. Ent. xii. 552.

*Torymus dauci*, Mayr, Verh. z.-b. ges. Wien, xxiv. 118.

New Forest. A parasite in Cecidomyiæ on *Pimpinella* and *Daucus*.

32. TORYMUS GALII, *Boh*.

*Torymus galii*, Boheman, Vet. Ac. Handl. 1833, 344; Mayr, Verh. z.-b. ges. Wien, xxiv. 121; Thomson, Hym. Scand. iv. 97, 31.

*T. gracilis*, Walker, Ent. Mag. i. 137.

Not common. Clydesdale; in galls of *Cecidomyia galii*, Winn.

33. TORYMUS CAMPANULÆ, *Cam.*

*Torymus campanulæ*, Cameron, Ent. Mon. Mag. 1880, 40.  
Rare in galls of *Cecidomyia campanulæ*; Clydesdale.

34. TORYMUS VIRIDIS, *Foer.*

*Torymus viridis*, Foerster, Beitr. z. Mon. d. Ptero. p. xxx.  
Rare. Clydesdale; in galls of *Rhodites eglanteriæ*.

35. TORYMUS PRUNI, *Cam.*

*Torymus pruni*, Cam. Trans. Ent. Soc. 1883, 196.  
Milngavie; in galls of *Cecidomyia pruni*, Kalt.

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