

proaches nearer to *Nepenthes*, where the dehiscence of the operculum and of the pitcher is also horizontal or very nearly so. Only here the operculum continues, whilst elsewhere it is removed.

B. The *polyphyllous ascidia* are formed of several leaves. Up to the present time diphyllous alone have been observed, but the study of the conditions in which they arise evidently proves that there is great probability of our finding triphyllous, tetraphyllous, pentaphyllous, and in short polyphyllous, especially in plants where the leaves are verticillate.

It is thus that a just appreciation of things anticipates ulterior discoveries, and it is the best proof that a *science of observation* is quite as exact as a *science of calculation*.

XLV.—*Descriptions of British Chalcidites.* By FRANCIS WALKER, F.L.S.

[Continued from p. 182.]

Sp. 59. *Cirrospilus* Rapo. *Viridis aut cyaneus, abdomen cupreum, antennæ nigrae aut piceæ, pedes picei, tarsi pallidiores, femora cyanea, alæ limpidæ.*

Mas. Viridi-cyaneus: oculi et ocelli rufi: antennæ nigrae; articuli 1^{us} et 2^{us} nigro-cyanei: abdomen nigro-cupreum: pedes picei; coxæ virides; genua fulva; tarsi flavi, apice fusci; propedum tibiæ fuscæ, tarsi fulvi: alæ limpidæ; squamulæ piceæ; proalis nervi fusci, metalis fulvi.

Fem. Cyaneus: antennæ nigro-piceæ; articuli 1^{us} et 2^{us} cyanei: pedes coxis et femoribus nigro-cyaneis. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

Var. β. Fem.—Meso- et metatarsi fusci, basi fulvi.

Var. γ. Fem.—Abdomen cyaneo-varium: pedes nigro-cyanei; trochanteres picei; genua flava; tibiæ piceæ; tarsi fusci; protibiæ fuscæ, basi supra fulvæ.

Var. δ. Fem.—Obscure viridis: antennæ nigro-piceæ; articuli 1^{us} et 2^{us} virides: abdomen cyaneo-cupreum; trochanteres fulvi, tarsi fulvi, apice fusci; protarsi obscuriores.

Found near London.

Fem. Corpus sublineare, nitens, scitissime squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum: antennæ clavatæ, corporis dimidio breviores; articulus 1^{us} gracilis, sublinearis; 2^{us} longicyathiformis; 4^{us} 3^o brevior; 5^{us} adhuc brevior; clava fusiformis, acuminata, articulo 5^o duplo longior: thorax brevi-ovatus, convexus: prothorax brevissimus, supra vix conspicuus: mesothoracis scutum latitudine longius; parapsidum suturæ bene determinatæ; scutellum brevi-conicum: metathorax transversus, mediocris: petiolus brevissimus: abdomen longiovatum, tho-

race multo longius vix latius, supra planum, subtus carinatum, apice acuminatum : pedes graciles : proalæ latæ ; nervus ulnaris humerali longior, radialis vix ullus, cubitalis sat longus.

Sp. 60. Cirr. Aristæus, Fem. *Cyaneo-viridis, abdomen cupreum, antennæ piceæ, pedes fusco-picei, femora viridia, alæ limpidæ.*

Cyaneo-viridis : oculi et ocelli rufi : antennæ piceæ ; articuli 1^{us} et 2^{us} virides : abdomen cupreum, apice viridi-varium : pedes virides ; trochanteres fulvi ; genua fulva ; tibiæ piceæ ; tarsi pallide fusci ; protibiæ fulvæ : alæ limpidæ ; squamulæ piceæ ; nervi fusci. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

Var. β .—Tibiæ fusæ ; protibiæ pallide fulvæ.

May ; Hampshire.

Fem. Corpus sublineare, nitens, scitissime squameum, parce hirtum : caput transversum, breve, convexum, juxta thoraci latum : antennæ subclavatæ, corporis dimidio non longiores ; articulus 1^{us} gracilis, sublinearis ; 2^{us} longicyathiformis ; 4^{us} 3^o brevior ; 5^{us} adhuc brevior ; clava fusiformis, acuminata, articulo 5^o duplo longior : thorax ovatus, convexus : prothorax brevissimus, supra vix conspicuus : mesothoracis scutum latitudine longius ; parapsidum suturæ bene determinatæ ; scutellum breviconicum : metathorax transversus, mediocris : petiolus brevissimus : abdomen fusiforme, thorace multo longius, fere angustius, supra planum, subtus carinatum, apice attenuatum : pedes graciles : proalæ mediocres ; nervus ulnaris humerali longior, radialis vix ullus, cubitalis sat longus.

Sp. 61. Cirr. Rhipheus, Fem. *Viridis æneo-varius, abdomen cupreum, antennæ piceæ, pedes picei, tarsi fulvi, alæ limpidæ.*

Nigro-viridis : oculi et ocelli rufi : antennæ piceæ ; articuli 1^{us} et 2^{us} virides : abdomen cupreum : pedes picei ; coxæ virides ; genua fulva ; tarsi fulvi, apice fusci ; propedum femora apice fulva, tibiæ fulvæ, tarsi obscuriores : alæ limpidæ ; squamulæ piceæ ; nervi fusci. (Corp. long. lin. $\frac{2}{3}$ — $\frac{3}{4}$; alar. lin. 1— $1\frac{1}{4}$.)

Var. β .—Antennæ nigro-piceæ : femora viridia.

Var. γ .—Var. β . similis : abdomen viridi-varium.

Var. δ .—Var. β . similis : thorax æneo-viridis.

Found near London.

Fem. Corpus sublineare, nitens, scitissime squameum, parce hirtum : caput transversum, breve, convexum, juxta thoraci latum : antennæ subclavatæ, corporis dimidio longiores ; articulus 1^{us} gracilis, sublinearis ; 2^{us} longicyathiformis ; 4^{us} 3^o brevior ; 5^{us} adhuc brevior ; clava fusiformis, acuminata, articulo 5^o duplo longior : thorax ovatus, convexus : prothorax brevissimus, supra vix conspicuus : mesothoracis scutum latitudine longius ; parapsidum suturæ bene determinatæ ; scutellum breviconicum : metathorax transversus, mediocris : petiolus brevissimus : abdomen longiovatum, thorace angustius et multo longius, supra planum, subtus carinatum, apice attenuatum ; segmentum 1^{um} magnum ; 2^{um} et sequentia breviora, transversa : pedes graciles ; tarsi articuli 1^o ad 3^{um} curtantes, 4^{us} 3^o longior : proalæ latæ ; nervus ulnaris humerali longior, radialis vix ullus, cubitalis sat longus.

Sp. 62. Cirr. Sotades, Fem. *Cyaneo-viridis, abdomen cupreum, antennæ piceæ, femora viridia, tibiæ fulvæ, tarsi flavi, alæ limpidæ.*

Cyaneo-viridis: oculi et ocelli rufi: antennæ piceæ; articuli 1^{us} et 2^{us} virides: abdomen cupreum: pedes virides; trochanteres fulvi; genua flava; tibiæ fulvæ; tarsi flavi, apice fuscii; protarsi fulvi: alæ limpidæ; squamulæ piceæ; nervi pallide fuscii. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

Found near London.

Fem. Corpus sublineare, nitens, scitissime squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum: antennæ subclavatæ, corporis dimidio non longiores; articulus 1^{us} gracilis, sublinearis; 2^{us} longicyathiformis; 4^{us} 3^o brevior; 5^{us} adhuc brevior; clava fusiformis, acuminata, articulo 5^o duplo longior: thorax ovatus, convexus: prothorax brevissimus, supra vix conspicuus: mesothoracis scutum latitudine longius; parapsidum suturæ bene determinatæ; scutellum brevi-conicum: metathorax transversus, mediocris: petiolus brevissimus: abdomen fusiforme, thorace angustius et multo longius, supra planum, subtus carinatum, apice attenuatum: pedes graciles: proalæ mediocres; nervus ulnaris humerali longior, radialis vix ullus, cubitalis sat longus.

Sp. 63. Cirr. Anyta, Fem. *Cyaneo-viridis, abdomen cupreum, antennæ fusæ, pedes picei, femora viridia, alæ limpidæ.*

Cyaneo-viridis: oculi et ocelli rufi: antennæ pallidæ fusæ; articuli 1^{us} et 2^{us} virides: abdomen cupreum: pedes picei; coxæ virides; femora viridia; genua fulva; tarsi basi fulvi; propedum tibiæ obscure fulvæ, tarsi fuscii: alæ limpidæ; squamulæ piceæ; nervi fulvi. (Corp. long. lin. $\frac{1}{2}$; alar. lin. $\frac{3}{4}$.)

Var. β .—Antennæ obscure fusæ.

Found near London.

Fem. Corpus sublineare, nitens, scitissime squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum: antennæ subclavatæ, corporis dimidio longiores; articulus 1^{us} gracilis, sublinearis; 2^{us} longicyathiformis; 4^{us} 3^o brevior; 5^{us} adhuc brevior; clava fusiformis, acuminata, articulo 5^o duplo longior: thorax ovatus, convexus: prothorax brevissimus, supra vix conspicuus: mesothoracis scutum latitudine longius; parapsidum suturæ bene determinatæ; scutellum breviconicum: metathorax transversus, mediocris: petiolus brevissimus: abdomen fusiforme, thorace longius et angustius, supra planum, subtus carinatum, apice attenuatum et acuminatum: pedes graciles: proalæ latæ; nervus ulnaris humerali longior, radialis vix ullus, cubitalis sat longus.

Sp. 64. Cirr. Rhæsus, Fem. *Viridis cupreo-varius, antennæ piceæ, pedes fulvi, femora viridia, alæ limpidæ.*

Obscure viridis cupreo-varius: oculi et ocelli rufi: antennæ piceæ; articuli 1^{us} et 2^{us} virides, hic apice et subtus fuscus: abdomen cupreum, cyaneo-viridi-varium: oviductus vaginæ nigræ: pedes fulvi; coxæ virides; femora viridia, apice flava; tarsi apice fuscii; protarsi obscuriores: alæ limpidæ;

squamulæ piceæ; nervi proalis fuscî, metalis flavi. (Corp. long. lin. 1; alar. lin. $1\frac{1}{2}$.)

Found near London.

Sp. 65. Cirr. Alcithoe, Fem. *Viridis aut cyaneus, præcedente minor gracilior, abdomen cupreum, antennæ piceæ, pedes fuscî aut fulvi, femora cyanea, alæ limpidæ.*

Nigro-viridis: oculi et ocelli rufi: antennæ piceæ; articuli 1^{us} et 2^{us} nigro-cyanei: abdomen nigro-cupreum: pedes cyanei; trochanteres fulvi; genua fulva; tibiæ fuscæ, basi fulvæ; tarsi fulvi, apice fuscî; propedum tibiæ fulvæ, tarsi fuscî: alæ sublimpidæ; squamulæ piceæ; proalis nervi fuscî, metalis flavi. (Corp. long. lin. $\frac{3}{4}$; alar. lin. 1.)

Var. β.—Antennæ nigro-piceæ; articuli 1^{us} et 2^{us} nigro-ænei: pedes fulvi; coxæ nigræ; femora nigra; metatibiæ fuscæ; tarsi flavi, apice fuscî: protarsi fulvi.

Var. γ.—Nigro-cyaneus: pedes nigro-cyanei; trochanteres fuscî; genua flava; tibiæ fulvæ; tarsi flavi, apice fuscî; protarsi fulvi.

July; near London.

Sp. 66. Cirr. Phalis, Fem. *Nigro-cupreus, antennæ fuscæ, pedes piceî, femora cuprea, alæ limpidæ.*

Nigro-cupreus: oculi et ocelli rufi: antennæ fuscæ; articuli 1^{us} et 2^{us} nigro-cuprei: abdomen cupreum: oviductus vaginæ nigræ: pedes cuprei; trochanteres fulvi; genua fulva; tibiæ piceæ; tarsi fuscî: alæ limpidæ; squamulæ piceæ; nervi fulvi. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

July; near London.

Fem. Corpus sublineare, nitens, scitissime squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum: antennæ clavatæ, corporis dimidio longiores; articulus 1^{us} gracilis, sublinearis; 2^{us} longicyathiformis; 4^{us} 3^o brevior; 5^{us} adhuc brevior; clava fusiformis, acuminata, articulo 5^o duplo longior: thorax ovatus, convexus: prothorax brevissimus, supra vix conspicuus: mesothoracis scutum latitudine longius; parapsidum suturæ bene determinatæ; scutellum brevi-conicum: metathorax transversus, mediocris: petiolus brevissimus: abdomen longiovatum, thorace longius vix latius, supra planum, subtus carinatum, apice acuminatum: proalæ latæ; nervus ulnaris humerali longior, radialis vix longior, cubitalis sat longus.

Sp. 67. Cirr. Zenocia, Fem. *Ater, abdomen cupreum, antennæ fuscæ, pedes nigri, tarsi pallidiores, alæ limpidæ.*

Ater: oculi et ocelli rufi: antennæ fuscæ; articuli 1^{us} et 2^{us} atrî, hic apice fuscus: abdomen nigro-cupreum: pedes nigri: trochanteres fulvi; genua fulva; tarsi fulvi, apice fuscî; propedum femora apice fulva, tibiæ fulvæ, tarsi fuscî: alæ limpidæ; squamulæ piceæ; proalis nervi fuscî, metalis flavi. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

Var. β.—Tarsi piceî, basi flavi.

July; near London.

Sp. 68. Cirr. Lysippe, Fem. *Ater præcedente multo minor, abdomen cupreum, antennæ fuscæ, pedes fuscæ, tarsi fulvi, alæ sublimpidæ.*

Ater: oculi et ocelli rufi: antennæ fuscæ; articuli 1^{us} et 2^{us} picei: abdomen nigro-cupreum: pedes fuscæ; coxæ nigrae; trochanteres fulvi; genua fulva; tarsi fulvi, apice fuscæ; protarsi obscuriores: alæ sublimpidæ; squamulæ fulvæ; proalis nervi fulvi, metalis flavi. (Corp. long. lin. $\frac{1}{3}$ — $\frac{1}{2}$; alar. lin. $\frac{3}{5}$ — $\frac{3}{4}$.)

July; near London.

Fem. Corpus sublineare, nitens, scitissime squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum: antennæ clavatae, corporis dimidio longiores; articulus 1^{us} gracilis, sublinearis; 2^{us} longicyathiformis; 4^{us} 3^o brevior; 5^{us} adhuc brevior; clava fusiformis, acuminata, articulo 5^o duplo longior: thorax breviovatus, convexus: prothorax brevissimus, supra vix conspicuus: mesothoracis scutum latitudine longius; parapsidum suturae bene determinatae; scutellum brevi-conicum: metathorax transversus, mediocris: petiolus brevissimus: abdomen longiovatum, thorace multo longius vix latius, supra planum, subtus carinatum, apice acuminatum: pedes graciles: proalæ latae; nervus ulnaris humerali longior, radialis vix ullus, cubitalis sat longus.

Sp. 69. Cirr. Achæmenes, Fem. *Æneus aut viridis, abdomen cupreum, antennæ piceæ, pedes fuscæ, femora ænea, tarsi flavi, alæ limpidæ.*

Nigro-æneus: oculi et ocelli rufi: antennæ piceæ; articulus 1^{us} nigro-æneus: abdomen cupreum: pedes flavi; coxæ nigro-æneæ; femora nigro-ænea; tibiæ fuscæ; tarsi fulvi, apice fuscæ; propedum femora apice flava, tibiæ fulvæ, tarsi pallide fuscæ: alæ limpidæ; squamulæ piceæ; nervi fulvi. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

Var. β.—Nigro-viridis, abdomen cupreum.

Var. γ.—Mesotibiæ basi flavæ.

Found near London.

Mas. Corpus sublineare, nitens, scitissime squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum: antennæ filiformes, corporis longitudine, pilis longis vestitæ; articulus 1^{us} longiovatus, latus; 2^{us} longicyathiformis; 3^{us} brevis; 4^{us}, 5^{us} et 6^{us} longi, lineares; clava longifusiformis, acuminata, articulo 6^o duplo longior: thorax ovatus, convexus: prothorax brevissimus, supra vix conspicuus: mesothoracis scutum latitudine longius; parapsidum suturae bene determinatae; scutellum breviconicum: metathorax mediocris, transversus: petiolus brevissimus: abdomen sublineare, planum, thorace brevius fere angustius: pedes graciles: proalæ angustæ; nervus ulnaris humerali longior, radialis vix ullus, cubitalis sat longus.

[To be continued.]



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