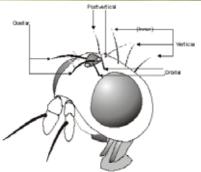
Chapter 2

Diopsoidea

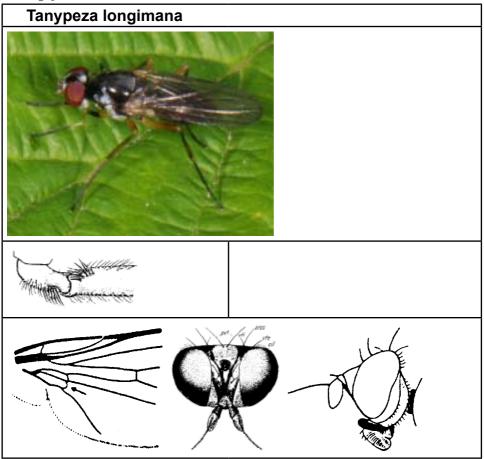




DIOPSOIDEA

50: Tanypezidae 53 ----- Base of tarsomere 1 of hind tarsus very slightly projecting ventrally; male with small stout black setae on hind trochanter and posterior base of hind femur. Postocellar bristles strong, at least half as long as upper orbital seta; one dorsocentral and three orbital setae present Tanypeza -----2 spp.; Maine to Alberta and Georgia; Steyskal 1965 ------ Base of tarsomere 1 of hind tarsus strongly projecting ventrally, about twice as deep as remainder of tarsomere 1 (Fig. 3); male without special setae on hind trochanter and hind femur. Postocellar bristles weak, less than half as long as upper orbital bristle; one to three dorsocentral and zero to two orbital bristles present non-British----54 ----- Only one orbital bristle present, situated at top of head; one dorsocentral bristle present ----- Scipopeza Enderlein Neotropical ---- Two or three each of orbital and dorsocentral bristles present -----Neotanypeza Hendel Neotropical Tanypeza Fallén, 1820 One species 55 ----- A black species with a silvery patch on the vertex and each side of front of frons. Thorax with notopleural depression silvery and pleurae with silvery patches. Palpi black, prominent and flat. Ocellar bristles small; two pairs of fronto orbital bristles; only one (outer) pair of vertical bristles. Frons slightly narrower in the male than in the female, but not with eyes almost touching). Four scutellar, no sternopleural, two postalar and one supra-alar bristles: (the anterior supra-alar bristle not present). Wings with upcurved discal cell (11) as in members of the Micropezidae. Rare: Suffolk (Bloomfield; West Stow) ----- Tanypeza longimana

Tanypezidae



51: Strongylophthalmyiidae

Small and slender, dark coloured flies, 3-5mm in length; head roundish (fig); postvertical bristles divergent (fig); costa broken near end of R1, cells bm and Cup long (fig); legs long and relatively slender (Evenhuis in Oosterbroek p105)

Lyneborg differentiates the Family from the Psilidae by the	he following:-
Analcellen (Cu2) konvex udadtil. 2 n og 1 m til stede	
	Strongylophthalmyi
Analcellen lige afskaret udadtil. Hojst 1 n og ingen m	B *** 1
Described in Lyneborg p377	Psilida

Strongylophthalmyia Heller, 1902

Graham Rotheray has done some work on this genus, finding *S. stackelbergi* in Europe. *S. ustulata* has been bred out of aspen logs, unfortunately a recent piece of work in Scotland on *Hammerschmidtia ferruginea* (Diptera: Syrphidae) by his daughter, Ellen, which used emergence traps over aspen logs, failed to catch any *S. ustulata*. It is presumed that the mesh size used in the survey was too large to retain it.

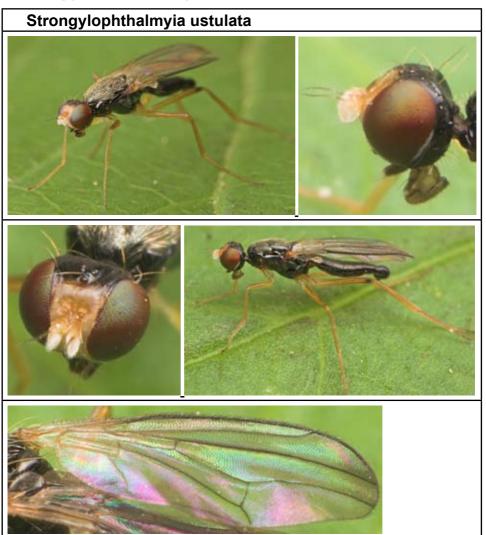
Historically, ancient aspen stands are known from across the UK midlands. Precious little of this remains except along watercourses but if suitable sites are found (i.e. large dead logs that have been continuously present since the last ice age) then it would be worth investigating. Little hope in England and Wales but they are well known from the Black Forest outside Moscow.

The following key covers all the European species.

56 Face and parafacials dark. Halteres dark. Edita of male recurved and slightly name apically	
	non-British Strongylophthalmyia stackel- bergi
	Face and parafacials pale, yellowish. Halteres pale. Edita of males straight, apically dilated and rounded
	56a
56a	Middle and hind femora brownish, with narrow apical band. Phallus apically dilated. Margin of penultimate abdominal tergite with narrow processes.
	Strongylophthalmyia ustulata
	Middle and hind femora brownish, completely darkened in apical third or half. Phallus not apically dilated. Margin of penultimate abdominal tergite even, lacking processes. non-British Strongylophthalmyia pictipes

Strongylophthalmyiidae

Strongylophthalmyiidae



52: Megamerinidae

Schenkelfliegen

Megamerina Rondani, 1861

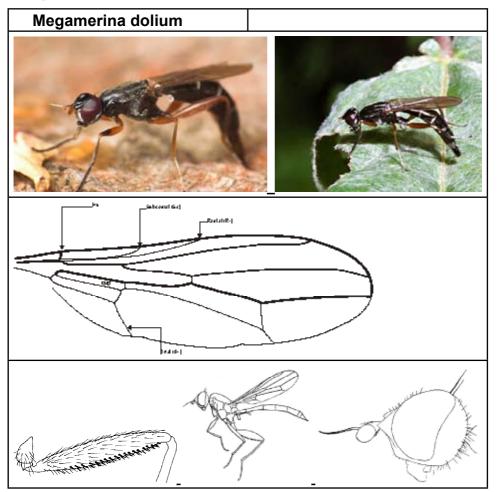
57 ----- "Hind femora swollen, with two ventral rows of spines. Abdomen long, with a narrow waist. Cup relatively long and parallel sided. Anal vein (A1) almost or quite reaching the wing margin." (Oldroyd, 1970)

"Medium-sized fly superficially like *Loxocera* (Psiilidae); 3rd antennal segment short and rounded; hind femora with double row of short ventral spines; wings narrow; alula absent; costa unbroken; Sc visible throughout and gently curved; apex well-separated from apex of vein R1; abdomen greatly elongated and attenuated; ovipositor short, retractile" (Colyer & Hammond, 1951)

One British species with the appearance of an ichneumon

Megamerina dolium

Megamerinidae



53: Psilidae

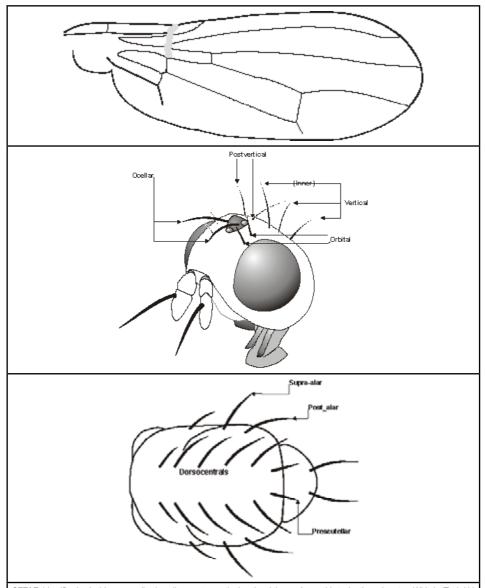
rust flies, Nacktfliegen

I've done little with the Psilidae key other than assemble some available texts and diagrams. It may seem sufficient to allow workers to test and comment but I suspect that there is a good possibility of species recently described by Shatalkin and Iwasa turning up in this country as pest species in imported vegetable matter. Furthermore the key takes little account of recent work by Wang (1988) who provides a more extensive key to the Western Palaearctic *Chamaepsila*. Some workers are particularly keen on seeing a thorough treatment of the Palaearctic Psilidae in order to determine a wide range of pest species and so this key will not be completed until those species are incorporated (for which I need a Russian translation). I should be pleased to receive any further offers of assistance with this work (Alan Stubbs and Peter Chandler have already been a great help)

Distinguished from other Acalyptrates by the break in the costal margin of the wing (similar to that seen in the Trypetidae). This break being some distance before the end of the subcostal vein (R1) and the end of the mediastinal vein, turning almost vertically upwards into this break as a hyaline or whitish streak in the wing surface.

They do not possess incurved lower fronto-orbital bristles and there are no strong bristles on the pleurae. The females do not have a distinctive ovipositor.

Psilidae

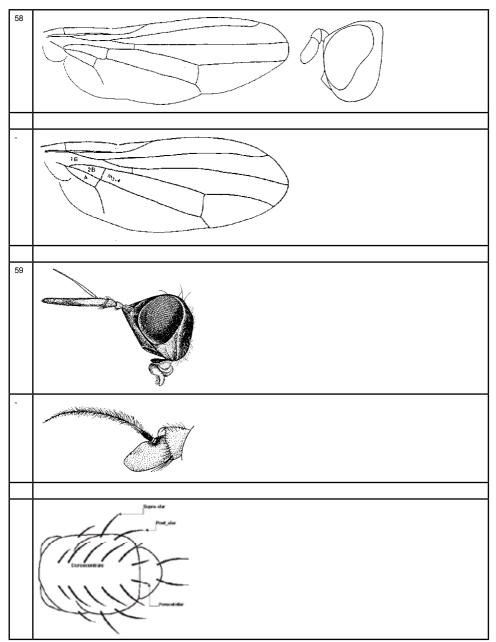


SETAE: Identification in this group relies heavily on setae on the head and thorax. As a guide to the thoracic setae, White's (Tephritid Flies) terminology is shown in square brackets throughout the text.

Psilidae: key to genera

8 Face concave in profile, forming an angle with peristoma at the front mouth edge. Jowls	
below face usually narrower. Anal cell clearly shorter than second basal cell	
Often 6 scutellar bristles {don't count the very small bristles, not much bigger than hairs}.	
Microtrichia on wing surface longer.	
Chyliza	8F
Face in profile strongly retreating and somewhat convex, side margin of mouth opening	00
forming a continuation of the facial curve. Jowls below eyes very deep.	
Anal cell approximately as long as the second basal cell	
Very seldom more than 2-4 scutellar bristles. Microtrichia on wing surface shorter.	
	59
9 Third antennal joint very long, longer than face	
Loxocera	63
Third antennal joint much shorter than face	0.0
Psila	60
0 No notopleural [posterior notopleural or anterior supra-alar] or supra-alar [posterior supra-alar or intra-alar] bristle. Male hind femora dilated and curved	
Psilosoma	83
A notopleural and a supra-alar bristle present. Male hind femora simple.	
	61
1 No postvertical bristles and no orbital bristles; only two pairs of vertical bristles.	
	62
Postverticals present, even if small. Pteropleura bare.	
Chamaepsila	68
2 No dorsocentral [prescutellar acrostichial] bristles	
non-Britishgroup Oxy	psila
At first glance these resemble small <i>Chorisops</i> or <i>Sargus</i> (Diptera: Stratiomyidae) but with a copper/orange - coloured thorax. There is a good illustration by Nikita Vikhrev at http://www.diptera.info/photogallery.php?photo_id=1187	
One pair of dorsocentral [prescutellar acrostichial] bristles. (Pteropleura with a few short	
fine hairs)	
Psila s.s	84
Collin (1944) names this as "group Pelethophila" which has presumably now become Psila s.s.	

Psilidae: key to genera



Loxocerinae

Loxocera Meigen, 1803

The following key is based upon an examination of 42 specimens belonging to 4 of the 5 UK species which were brought by members of Dipterists Forum to the Spring workshop at Preston Montford in 2008. A good deal of variability in antenna and arista lengths was noted, very different arista/antennae length ratios seen even on the same specimen (the basis of the older Lyneborg key which I had used previously in this key). Loxocera nigrifrons was not examined, so it is hoped that the first couplet below, a copy from the Lyneborg, 1964 couplet, does not throw the remainder of the key out.

A more recent work on Lovocera is:

A more recent work on Loxocera is.
Goot, Van Der. V.S., Veen, M.P 1996 De spillebeenvliegen, wortelvliegen en wolzwevers van Noordwest-Europa. Second edition. Jeugdbondsuitgeverij, Utrecht, 57 pp90-5107-002-0 [Dutch].
63 Larger species (about 7-9mm). Frons yellow on each side of a black median triangle. Scutellum yellow.
64
Smaller species (about 5-7mm). Frons and scutellum all black.
Loxocera nigrifrons
64 Humeri yellow
Frons - (dorsal surface of head) black with triangular yellow (a yellow which may be darkened to a dark brown) markings extending posteriorly from a wide base at the level of the antennae to an apex just short of the ocellar triangle, these triangular markings do not meet the eye margins. Head profile - black in the top half, yellow in the lower half. Face (below antennae) - Mainly yellow with black extending down as diffuse stripes along the margins of the eyes, ending at the lowest point of the eye; a broad brown central band.
Humeri - yellow (may have an infusion of black in some specimens - Scotland)
Loxocera sylvatica
Humeri black 65
65 Postgenal stripe absent
Frons - [description required] Head profile - black except for a large, round yellow patch below the eye Face (below antennae) - Mainly black with yellow around the mouth opening which extend as small patches up from the sides of the mouth opening; a broad black central band. Humeri - black
Postgenal stripe present
66 Face below antennae black
Frons - (dorsal surface of head) black, may have a small dark orange spot anterior to the ocellar triangle Head profile - black except for a small yellow patch below and adjoining the eye; adjoining this patch posteriorly and running from the eye to the mouth is a "shimmering stripe" (view obliquely from behind) comprising white hairs (which exhibit a good deal of variation in size in the specimens examined, ranging from just a shimmer hinting of white hairs to fairly long, clearly defined white hairs) Termed "postgenal stripe"
Loxocera aristata
Face below antennae yellow (a broad yellow central band) Frons - (dorsal surface of head) black with triangular orange markings extending posteriorly from a wide base at the level of the antennae to an apex just beyond the ocellar triangle, these triangular markings do not meet the eye margins and may be interrupted by a diffuse black band stretching from eye to eye at a distance approximately 1/6th of the distance between the antennae and the ocellar triangle Head profile - black in the top half, yellow in the lower half, postgenal hairs comprising only a small triangular patch of
short white hairs
Loxocera albiseta

Loxocera Meigen, 1803

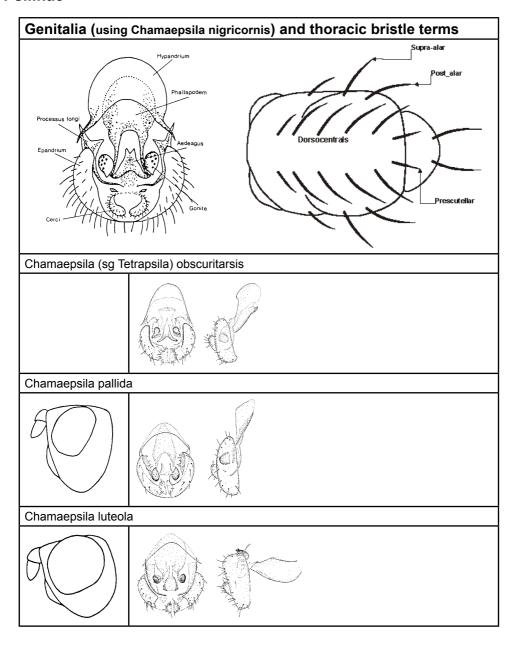
Loxocera nigrifrons	
Loxocera sylvatica	
Loxocera fulviventris	
	X
Loxocera aristata	
Loxocera albiseta	

Psilinae

Chamaepsila Hendel, 1917

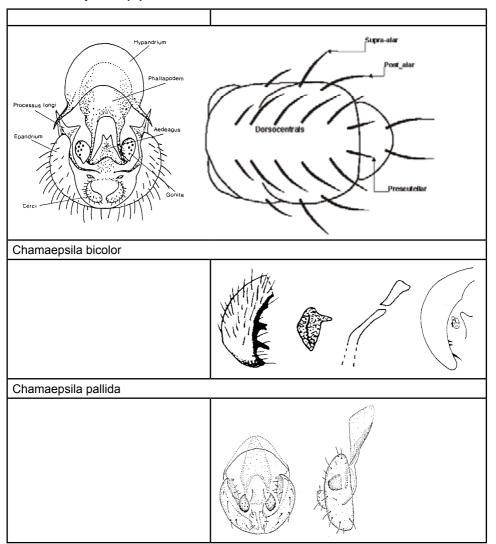
68	Only two scutellar [apical] bristles. Postverticals and orbitals distinct.
	Chamaepsila sensu stricto69
	Usually four scutellar bristles. Postverticals and orbitals small.
	Chamaepsila (sg Tetrapsila) obscuritarsis
69	Thorax yellow or with dark stripes only, not dark with humeri and side margins yellowish.
	70
	Thorax all black or only yellow on humeri and side margins and all or part of pleurae.
	75
70	Abdomen yellow Starting at this couplet, once luteola is keyed out, the remainder are all pallida or bicolor. Couplets 14 to 18 need rearranging.
	71
	Abdomen black or at least not yellow
	72
71	Third antennal joint larger and entirely yellow. Arista with longer pubescence. Eyes deeper than long.
	Chamaepsila pallida
	Third antennal joint smaller and narrower and darkened towards the tip. Aristal pubescence shorter. Eyes quite as long as deep.
	Chamaensila lutenla

Psilinae



72 Only one pair of (prescutellar) dorsocentral bristles.
bicolor + synonym7
Carles-Tolra describes the "bicolor-group" in which: Postverticals are divergent, 1-2 orbitals, 3vt (verticalborsten - see Wang's diagram), 1dc (dorsocentralborsten), 1sc (scutellarborsten) & thorax mainly yellow. We only have bicolor in the UK but the above characterisation should be used in the key
Two pairs of dorsocentral bristles
·7
73 Third antennal joint above and at tip, and palpi at tip, darkened. Front of thorax at middle with a brownish patch. Sternopleura unicolorous yellow
Chamaepsila bicolo
Third antennal joint and palpi yellow. Front of thorax not darkened. Sternopleura with a
brownish patch.
Chamaepsila (nigromaculata
= bicolor
The two in this couplet are actually the same species. nigromaculata is a synonym of bicolor (Carles-Tolra, 1993 - also full description in English if more is needed)
74 Occiput and thorax not striped. Arista quite short haired. Third antennal joint and palpi usually somewhat darkened towards tip.
Chamaepsila (nigrosetosa) = pallid
Occiput with two vertical stripes. Thorax usually with a narrow median dark stripe in front
and two narrow post-sutural stripes. Antennae and palpi yellow. Arista very distinctly
pubescent, the hairs longer than the arista is thick at its base.
Chamaepsila (unilineata) = pallid. The two species in this couplet are actually the same species. Both are synonyms of pallida
75 At least prothorax and often humeri and sides of thoracic disc yellow or tawny-yellow. Pleurae at least partly yellow.
7
Thorax, including pleurae, all dark

Chamaepsila (2)



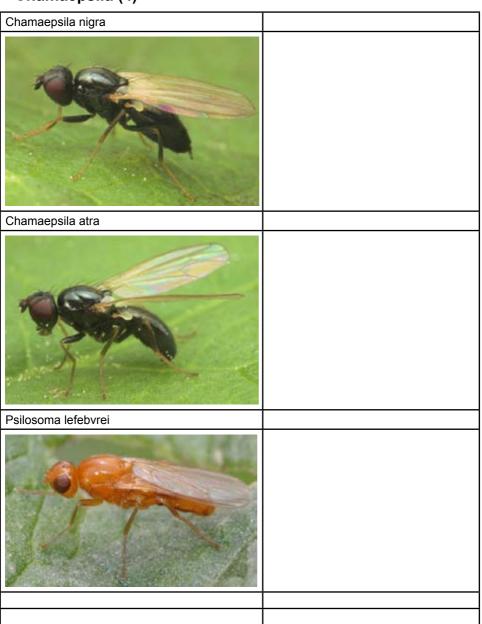
76	- Only one pair of dorsocentral bristles. All occiput tawny-yellow. Arista with quite short pubescence.
	Chamaepsila limbatella
	Described in Soos 1985 & Collin 1944 but no illustrations anywhere - Two pairs of dorsocentral bristles. Upper part of occiput darkened. Aristal pubescence
	longer.
	Chamaepsila humeralis
	(check male genitalia with <i>persimilis</i> figures)
77	- One or two pairs of dorsocentral bristles on thorax
	78
	-Three or four pairs of dorsocentrals. Legs darkened.
	81
78	- Only one pair of (prescutellar) dorsocentrals, two pairs of vertical bristles and legs darkened.
	Chamaepsila (gracilis) = buc- cata
	- Usually two pairs of dorsocentrals or, if (rarely) only one pair then the legs are entirely
	pale and there are three pairs of vertical bristles
	79
79	- Third antennal joint partly yellowish
	Chamaepsila rosae
	(check male genitalia with <i>persimilis</i> figures)
	- Third antennal joint entirely black
	80
80	- Hairs behind front femora more even in length and strength. Eyes rather larger and not
	so round, consequently checks and jowls rather narrower; aristal pubescence slightly
	longer; abdominal pubescence longer. Male genitalia as illustrated.
	Chamaepsila rosae
	(check male genitalia with <i>persimilis</i> figures)
	- A spaced row of hairs behind the front femora rather longer and stronger than the rest.
	Eyes rather smaller and rounder and consequently jowls slightly wider; aristal pubescence
	rather shorter; abdominal pubescence shorter. Male genitalia as illustrated.
	Chamaepsila nigricornis
	(check male genitalia with <i>persimilis</i> figures)

Chamaepsila (3)

Chamaepsila limbatella	
Chamaepsila humeralis	
Chamaepsila buccata	
Chamaepsila rosae	
O described 200	
Chamaepsila nigricornis	
Chamaepsila persimilis	

81 Three pairs of dorsocentrals
Chamaepsila nigra
Four pairs of dorsocentrals (one pair presutural)
82
82 Smaller species. Male genitalia small and simple (without finger-like claspers). Seventh abdominal tergite of female narrow, forming part of ovipositor
Chamaepsila atra
Rather larger species. Male genitalia with finger-like claspers. Seventh abdominal tergite of female wide, the very much smaller ovipositor emerging from its end.
Chamaepsila clunalis
Psilosoma Zetterstedt, 1860
83 No orbital or dorsocentral [prescutellar acrostichial] bristles.
non-BritishPsilosoma sp.
A small orbital and one pair of dorsocentrals [prescutellar acrostichial]
Psilosoma lefebyrei

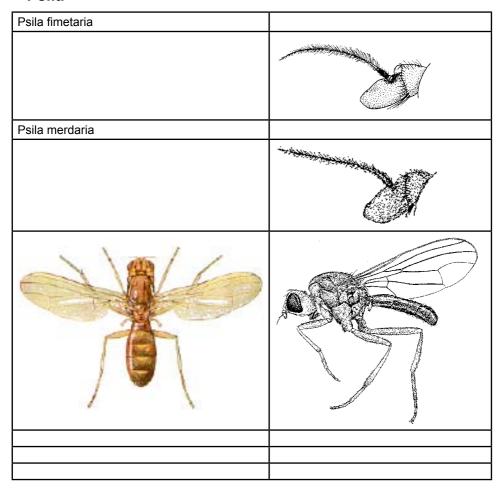
Chamaepsila (4)



Psila Meigen, 1803

	Third antennal joint darkened on the outer side about the base of the arista, hairs beneath the second antennal joint longer
	Psila fimetaria
	Third antennal joint rather larger but not darkened on the outer side about the base of
f	the arista; hairs beneath the second antennal joint shorter. Eyes not quite so large but similarly reniform, not rounded; arista with rather shorter pubescence. Scutellum slightly longer in proportion to the width and the pair of strong bristles not quite so widely separated. Wings with a yellower tinge, especially about the veins. Setae: intra-alar, posterior supra-alar, prescutellar acrostichial, anterior supra-alar (it appears to be in this position rather than being a posterior notopleural)
	Psila merdaria

Psila

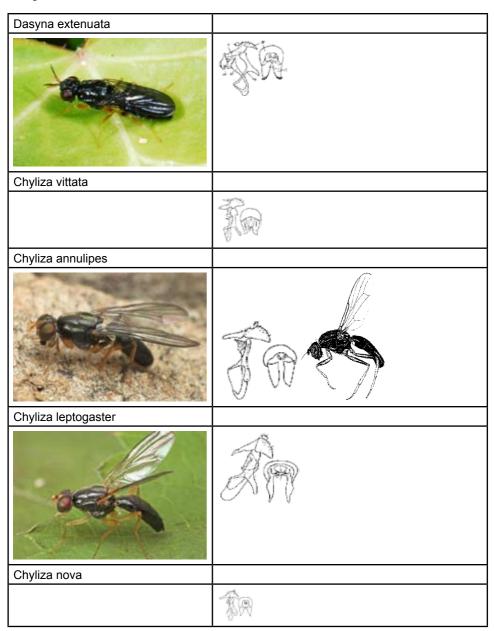


Chylizinae

Chyliza Fallén 1820

00	Third aftermal joint concave above, arista thickened by dense black pubescence. Jowis
	below the eyes are deeper than the third antennal joint is wide at its middle.
	s.g. Dasyna extenuata
	Third antennal joint not concave above, arista with normal pubescence. Jowls narrower,
	not deeper than the third antennal joint is wide.
	s.g. Chyliza 86
86	Thorax (except scutellum) and pleurae almost entirely black. Frons extensively black.
00	Only the orbits on the lower half of the occiput yellow.
	Thorax yellow with black stripes, or in the female with at least broad yellow supra-alar
	patches. Frons more yellow than black. All lower half of occiput yellow
0.7	Chyliza vittata
87	Femora very obviously ringed with black before the tip (was fuscipennis misident. so this couplet could be wrong)
	(was rusciperinis misroent, so this couplet could be wrong)Chyliza annulipes
	Femora not annulated
00	
00	Third antennal joint and aristal pubescence both rather longer. Frons usually more
	extensively darkened. Male with an anteroventral row of small, black projecting spines
	on the front tibiae. Female with second antennal joint brownish above and the upper side of the humeri usually entirely black.
	Chyliza leptogaster
	(was scutellata)
	Third antennal joint and aristal pubescence both rather shorter. Frons usually more
	extensively yellowish. Male with an anteroventral row of very small black excrescences
	resembling closely adpressed spines on the front tibiae. Female with second antennal
	joint always yellowish and at least the upper side of the humeri usually entirely yellow
	Chyliza nova
	On yinza nova

Chylizinae



References - Diopsoidea

? von Roser. Spillebeenvliegen. . p.10-19 . .

Anon.. 2001 Nearctica: Nomina - Diptera. Nomina Insecta Nearctica. . . .

Arnaud, P.H.. 2001 CAS Diptera type collection holdings: Diptera Families Containing Primary Types. California Academy of Sciences. California Academy of Sciences, Golden Gate Park, San Francisco, California. http://www.calacademy.org/research/entomology/website1/copy_ack.htm.

Bland, K,P., Rotheray, G.E. 2002 The phytophagous early stages of *Loxocera sylvatica* Meigen (Diptera, Psilidae). Dipterists Digest. 9(2) p.174-178 . .

Brindle, A. 1965 Taxonomic notes on the Larvae of British Diptera. 22 Psilidae. Entomologist. 98 p.169-173 . .

Carles-Tolrá, M.. 1993 A new species of *Chamaepsila* Hendel from the Czech Republic, with a key to the bicolor-group species (Diptera, Psilidae). Graelisia. 49 p.91-95...

Chandler, P.J.. 1998 Checklists of Insects of the British Isles Part 1: Diptera. Handbooks for the Identification of British Insects. 12. Royal Entomological Society.

Chandler, P.J.. 1975 Notes on the British status of three unusual Acalypterate flies (Diptera). Proc. Brit. Ent. Nat. Hist. Soc.. p.66-72..

Clemons, L. 2002 A note on the occurrence of Chamaepsila luteola (Collin) (Dip.: Psilidae) in Kent. Entomologist's Record. 114 Part 4 p.173-174 . .

Cole, J.. 1981 *Strongylophthalmyia ustulata* (Zetterstedt) (Diptera: Tanypezidae) new to Britain. Entomologist's Gazette. 32 p.47-50 . .

Collin, J.E.. 1945 British Micropezidae. Entomologist's Record. 15/10/1945 p.115-119

Collin, J.E.. 1944 The British species of Psilidae (Diptera). . p.214-224 . .

Cresson, E.T.. 1938 The Neriidae and Micropezidae of America north of Mexico (Diptera). Trans. Am. Ent. Soc.. 64 p.293-366 . . [German].

Danielsson, R.. 1999 Tanypezidae present in the Entomological Museum of Lund University. Entomological Museum of Lund University. . . http://darwin.biol.lu.se/systzool/zoomus/ZooDoc/VetSam/ZooEnt/OrdDip/ListDip/074.Tanypezidae.

Danielsson, R.. 1999 Strongylophthalmyiidae present in the Entomological Museum of Lund University. Entomological Museum of Lund University. . . http://darwin.biol. lu.se/systzool/zoomus/ZooDoc/VetSam/ZooEnt/OrdDip/ListDip/075.Strongylophthalmyiidae.

Danielsson, R.. 1998 Diopsidae present in the Entomological Museum of Lund University. Entomological Museum of Lund University. . . http://darwin.biol.lu.se/systzool/zoomus/ZooDoc/VetSam/ZooEnt/OrdDip/ListDip/078.Diopsidae.

Deeming, J.C.. 1990 Aristal reduction and compensation in some Acalypterate Diptera. Second International Congress of Dipterology, Bratislava. . . .

Drake, C.M.. 2001 The importance of temporary waters for Diptera. Freshwater Forum. 17 p.26-39 . .0961-4664

Duda, O.. 1925 Monographie der Sepsiden (Dipt.). Ann. Naturh. Mus. Wien. 39 p.1-153 . . [German].

Evenhuis, N.L.. 1996 Family: Strongylophthalmyiidae. Australasian/Oceanian Diptera Catalog — Web Version. . . .

Evenhuis, N.L.. 1996 Family PSILIDAE (59). Australasian/Oceanian Diptera Catalog — Web Version.

Evenhuis, N.L.. 1998 Family: Diopsidae (60). Australasian/Oceanian Diptera Catalog — Web Version.

Evenhuis, N.L.. 1998 Family: Megamerinidae. Australasian/Oceanian Diptera Catalog — Web Version. . . .

Feijen, H.R.. 1999 A revision of *Eurydiopsis* Frey (Diptera, Diopsidae) with description of four new Oriental species. Tijdschrift voor Entomologie. 141(2) p.221-240 . New Entomological Taxa.

Flint, O.. 1956 Hibernation of the diopsid fly *Sphyracephala brevicornis* Say. Bull. Brooklyn ent. Soc.. 51 p.44 . .

Foster, A.P., Procter, D.A. 1997 *Antichaeta atriseta* (Loew) (Diptera: Sciomyzidae) in Britain, and its occurrence with other scarce malacophagous flies. Br.J.Ent.Nat.Hist.. 10 p.73-76 . .

Frey, R.. 1955 Studen uber ostasiatischen Dipteren. V. Psilidae, Megamerinidae. Notulae Entomologicae. 35 p.122-37 . . [German].

Frey, R.. 1935 Neue Diptera brachycera aus Finland und angrenzenden Landern III. Notulae Entomologicae. 15 p.97-101 . .

Frey, R.. 1925 Zur Systematik der Diptera Haplostomata. II. Fam. Sepsidae. Notul. Ent., Helsingf.. 5 p.69-76 . . [German].

Godfrey, A.. 1998 The Diptera of Moccas Park National Nature Reserve. Dipterists Digest. 5 p.44-48

Hackston, M.G.. 2001 Family Diopsidae: Check list of Afrotropical species. Derived work, unascribed to original authors. in comm... . mike@hackston.freeserve.co.uk.

Hackston, M.G.. 2001 Family DIOPSIDAE

Check list of Afrotropical species. in comm... mike@hackston.freeserve.co.uk.

Hearsey, J.. 1844 Notes of Sphyracephala hearseiana. Proc. ent. Soc. Lond.. 1 p.82-83 . .

Heller. 1902 new name for *Strongylophthalmus* Hendel, 1902. Wein ent. Zeit.. 21 p.226 . .

Hendel, **R.**. 1902 Ueber die systematische Stellung der Dipterengattungen *Pseudopomyza* Strobl und *Rhicnoessa* Lw.. Wien. Ent. Zeit.. 21(10) p.261-264 . . [German].

Hennig, W.. 1941 Megamerinidae. Die Fliegen der palaearktischen Region. 39b. . .

Hennig, W. in Lindner, E. (Ed) . 1941 Diopsidae. Die Fliegen der palaearktischen Region. 39c. . .

Hennig, W. in Lindner, E. (Ed) . 1937 (?1941) Tanypezidae. Die Fliegen der palaearktischen Region.

Houghton, C.O.. 1902 Sphyracephala brevicornis Say. Ent. News. 13 p.160 . .

Iwasa, M.. 1995 Occurrence of *Strongylophthalmyia ustulata* Zetterstedt (Diptera, Strongylophthalmyiidae) from Japan and North Korea. Jap. J. Ent.. 63 p.57-58...

Iwasa, M.. 1992 The genus *Strongylophthalmyia* Heller (Diptera, Strongylophthalmyidae) from Japan with descriptions of two new species. Jap. J. Ent.. 60 p.660-666 . .

Iwasa, M.. 1998? Family Strongylophthalmiidae. Manual of Palaearctic Diptera. 3.10.

Iwasa, M.. 1991 Taxonomic study of the genus Psila Meigen (Diptera, Psilidae) from Japan, Sakhalin and the Kurile islands. Jap. J. Ent.. 59 p.389-408..

Krivosheina, N.P.. 1984 Family: Strongylophthalmyiidae. Catalogue of Palaearctic Diptera. 9. . .

Krivosheina, N.P. 1981 New Palaearctic species of the Genus *Strongylophthalmyia* Hell. (Diptera: Strongylophthalmyiidae). Entomologicheskoe Obozrenie. 60 p.183-186 Institute of Evolutionary Morphology

USSR Academy. .0013-8738/81/0001-016257

Lavigne, **R.**. 1962 Immature stages of the stalk-eyed fly *Sphyracephala brevicornis* (Say) (Diptera: Diopsidae) with observations on its biology. Bull. Brooklyn ent. Soc.. 57 p.5-14 . .

Lindner, E.. 1962 Studien an afikanischen Diopsiden. Stuttgarter Beitrage zur Naturkunde. 94 p.6-7 . . [German].

Loew. 1873 [(*succini*) (*Sphyracephala*)]. Zeitschr. Ges. Naturwiss. 42 p.103-105 . . [German].

Lyneborg, A.L.. 1964 Danske acalyptrate fluer. 2.. Entomologiske Meddelelser. XXXII p.367-388 . .

Meier, R., Buch, W., Klass, K.D., Petersen, J.F.T.. 2001 Collection inventory of the Diptera collection of the Zoological Museum, University of Copenhagen (ZMUC). Collection inventory of the Diptera collection of the ZMUC. . . http://www.zmuc.dk/EntoWeb/collections-databaser/Diptera/dipterasites.htm.

Meier, R., Hilger, S.. 2000 On the egg morphology and phylogenetic relationships of Diopsidae (Diptera: Schizophora). Journal of Zoological Systematics & Evolutionary Research. 38 Issue 1; March 2000. http://www.blackwell-synergy.com/Journals/toc.asp?IssueID=2722.

Meijere, J.C.H. de. 1919 Beitrag zur Kenntnis der sumatranischen Dipteren. Bijdr. Dierk.. 21 p.13-19 . . [German].

Melander, A.L.. 1920 Synopsis of the dipterous family Psilidae. Psyche. Camb.. 27 p.91-101 . .

Oosterbroek, **P.**. 1998 *The families of Diptera of the Malay Archipelago*. Fauna Malesiana Handbook. Handbook 1. Fauna Malesiana Foundation. .90 04 110534

Peterson, B.V. in McAlpine, J.F. (Ed) . 1987 Diopsidae: Manual of Nearctic Diptera:. Manual of Nearctic Diptera. . . .

Risbec, J.. 1950 La pupe de Diopsis apicalis Dalm. (Dipt). Bull. Soc. Ent. Fr.. 55 p.114-

115 . . [French].

Rohácek, J.: 1998? Family Tanypezidae. Manual of Palaearctic Diptera. . . .

Rondani, C.. 1873 [beccarii (Sphyracephala)]. Ann. Mus. Civ. Stor. Nat. Genova. 4 p.289 . .

Rotheray, G.E., Hancock, G., Hewitt, S., Horsefield, D., MacGowan, I., Robertson, D., Watt, K.. 2001 The biodiversity and conservation of saproxylic Diptera in Scotland.

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