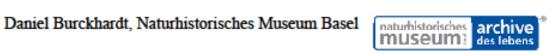
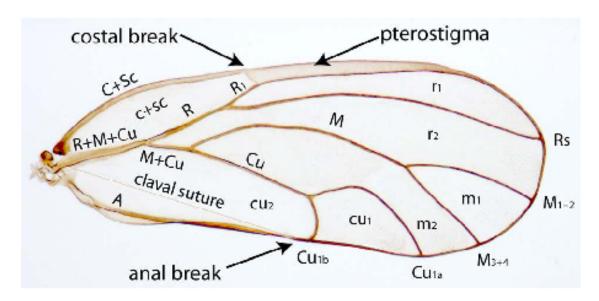
Identification key for the Central European Cacopsylla species



1	Mesoscutum distinctly longer than mesopraescutum along median longitudinal body axis, the latter about twice as long as pronotum	
	subgenus Thamnopsylla	3
-	Mesoscutum about as long as or slightly longer than mesopraescutum; both more than twice as long as pronotum	2
2	Dorsal surface spinules in cell rs of forewing above bifurcation of vein M arranged in squares or rhombi of about 20 µ length; surface spinules in cell c+sc restricted to apical portion of cell or entirely reduced; surface spinules reduced in	
	basal part of rs, at most a few spinules present; fields of surface spinules tapering along apical wing margin; forewing membrane always colourless; pterostigma oblong cuneate, evenly tapering. Antenna shorter than 1.75 mm, if longer then forewing longer than 3 mm. Male paramere simple, lamellar. Female terminalia short,	
-	Forewing spinulation different, or wing membrane yellowish or brownish, or pterostigma elongate with subparallel margins. If antenna longer than 1.75 mm	14
	then forwing shorter than 3.0 mm. Male paramere often complex. Female termi-	
	nalia different subgenus Hepatopsylla	17
3	Dorsal surface spinules of forewing in cell rs above bifurcation of vein M very	
	densely and irregularely spaced (2–10 μ)	4
-	Dorsal surface spinules of forewing in cell rs above bifurcation of vein M evenly	-
	spaced in 15–20 μ distance forming squares or rhombi	د
4	Forewing bearing dark ribbon apically. Metatibia without genual spine. Male sub- genital plate bearing apical tubercular extension. Female proctiger and subgenital	
	plate ending in thorn-like process	ata
-	Forewing irregulary dark without distinct apical ribbon. Metatibia with genual spine. Male subgenital plate rounded apically. Female proctiger and subgenital	
		uni
5	Dorsal surface spinules covering entire cell c+sc of forewing apart from stripes along veins; forming extended fields in other cells which taper towards wing mar-	
	gin; membrane colourless or fumate but never with brown stripe along vein Cu _{1b} which is strongly contrasted from surroundings	6
-	Dorsal surface spinules of forewing more or less reduced, or not tapering towards wing margin, or wing pattern consisting with dark, strongly contrasted stripe	
	along vein Cu _{1b}	9
6	Antenna usually longer than 1.2 mm. Genal processes broad and blunt. Paramere	
	broad, lanceolate. Dorsal margin of female proctiger raised in the middle, apex	
	rounded pyrisi	uga
-	Antenna usually shorter than 1.1 mm. Paramere narrow or with apical processes. Dorsal margin of female proctiger concave in the middle, or apex angular	7
7	Paramere, in profile, with square base bearing 2 apical processes. Dorsal margin	/
	of female proctiger, distal of circumanal ring, evenly concave; apex roundedp	icta
_	Paramere, in profile, elongate; apex with inward and forward pointing tooth. Dor-	
	sal margin of female proctiger raised in the middle; apex angular	8

8	Paramere, in profile, narrowed in the middle. Apex of distal segment of aedeagus
	weakly curved
-	aedeagus strongly curved, hook-shaped
9	Forewing membrane bearing dark brown patch along vein Cu _{1b}
_	Forewing membrane along vein Cu _{1b} of same colour as surrounding membrane
10	Forewing with dark, continuous ribbon along apex
-	Forewing lacking dark, continuous ribbon along apex
11	Forewing bearing dark brown patches on tips of veins, at the bifurcation of vein
	M, and in the middle of vein Cu _{la} pulchella
-	Forewing pattern different
12	Areas of radular spinules of cells m ₁ , m ₂ and cu ₁ of forewing more or less dark;
	dark patch along vein Cu _{1b} reaching bifurcation of Cu, straight in proximal half;
	vein Cu _{la} angular; surface spinules reduced in cells c+sc and r ₁
-	along vein Cu _{1b} not reaching bifurcation of Cu, not narrowed in proximal half;
	vein Cu _{la} rounded; surface spinules forming extended fields in cells c+sc and r ₁
	albipes
13	Surface spinules of forewing forming very narrow fields. Antenna longer than 1.3
	mmrhamnicola
-	Surface spinules of forewing forming extended fields. Antenna shorter than 0.9
	mmcorcontum
14	Antenna shorter than 1.2 mm peregrina
-	Antenna longer than 1.3 mm
15	Antenna longer than 1.75 mm
16	Antenna shorter than als 1.55 mm
16 -	Antennal segments 4–8 with black apex
17	Surface spinules of forewing forming more or less even squares or rhombi of 20 μ
• /	distance in cell rs above bifurcation of vein M; fields of surface spinules tapering
	towards wing margin. Clavus with brown apex. 18
_	Character combination different 20
18	Paramere sickle-shaped. Female proctiger strongly narrowed in the middlepyri
-	Paramere lamellar. Female proctiger cuneate
19	Genal processes blunt. Paramere bearing two apical teeth, one long, forwards di-
	rected and one short, inwards directed; foremargin with wide lobe. Distal segment
	of aedeagus with very wide, weakly curved apical dilatation. Dorsal margin of
	female proctiger with small swelling in the middle, apex bluntbidens
-	Genal processes subacute. Paramere bearing one blunt, inwards directed apical
	tooth; foremargin more or less straight. Distal segment of aedeagus with very wide, hook-shaped apical dilatation. Dorsal margin of female proctiger concave
20	Dorsal surface spinules of forewing in cell rs above bifurcation of vein M irregu-
	larly, densely spaced (2–10 µ) or arranged in transverse rows
_	Dorsal surface spinules of forewing forming more or less even squares or rhombi
	of 20 μ distance in cell rs above bifurcation of vein M
21	Surface spinules arranged in transverse rows
_	Surface spinules densely, irregularly spaced

22	Paramere, in profile, with large basal lobe. Dorsal margin of female pro	ctiger
	straight or weakly convex	elegantula
-	Paramere, in profile, lamellar with anteriorly directed apical tooth. Dorsal n	nargin
	of female proctiger sinuous	23
23	Thorax brown, abdomen green, Terminalia ochreous or brown	
-	Body colour evenly light or reddish brown	.intermedia
24	Forewing in cell c+sc without ventral surface spinules	25
-	Ventral surface spinules present in cell c+sc	26
25	Forewing oval, widest in the middle; wing apex near apex of vein M ₁₊₂ . Ar	itenna
	shorter than 1.0 mm	parvipennis
-	Forewing widest in apical third; wing apex at the middle of outer margin of	of cell
26	rs. Antenna longer than 1.0 mm	ng the
	veins; cell c+sc entirely covered in ventral surface spinules	ambigua
-	Dorsal surface spinules of forewing dark, covering the entire membrane up	to the
	veins; ventral surface spinules present only in distal part of cell c+sc	
27	Antenna longer than 1.6 mm	
_	Antenna shorter than 1.3 mm	32
28	Metatibia with 1+1+(2-3)+1 sclerotised apical spurs	29
_	Metatibia with 1+3+1 sclerotised apical spurs	
29	Antennal segments 3-7 yellowish or ochreous with dark brown apex. Field	
	surface spinules tapering along apical wing margin	
_	Antennal segments 3-7 entirely yellow or ochreous. Fields of surface sp.	inules
	evenly widening towards apical wing margin	viburni
30	Forewing brown to dark brown in apical half with colourless window in cell	
_	Forewing light or brown but lacking contrasted colourless window in cell cu	
31	Body colour dark brown. Paramere with short, angular apical, sclerotised	
	Valvula 2 of female terminalia with straight ventral margin	
_	Body colour green or yellow. Paramere with long, curved apical, sclerotised	
	Valvula 2 of female terminalia with concave ventral margin	
32	Pterostigma cuneate, broad and short, with converging margins ending it	
	middle of vein Rs; wing membrane yellowish or ochreous, veins ochreous or	
	brown	33
_	Pterostigma long and narrow, with subparallel margins ending in apical th	
	vein Rs; wing membrane colourless or dark, veins light or dark	
33	Foremargin of forewing relatively straight	
_	Foremargin of forewing strongly curved	
34	Surface spinules entirely covering cell c+sc of forewing	
_	Surface spinules absent from basal third of cell c+sc of forewing	
35	Male paramere bearing subapical lobe along hind margin	
_	Male paramere lacking subapical lobe along hind margin	
36	Paramere lacking basal lobe at hind margin	
_	Paramere bearing basal lobe at hind margin	
37	Basal lobe at hind margin of paramere not incised dorsally	
-	Basal lobe at hind margin of paramere strongly incised dorsally	iteophila
38	Apex of paramere forming simple, backwards directed sclerotised tooth	
-	Apex of paramere with two strongly sclerotised teeth	39
39	Paramere, in rear view, with a tooth in apical third	
_	Paramere, in rear view, with lobe in the middle of inner margin	
_	- manare, an rear view, with rove in the initial of initial in	



Nomenclature of forewing veins and cells.