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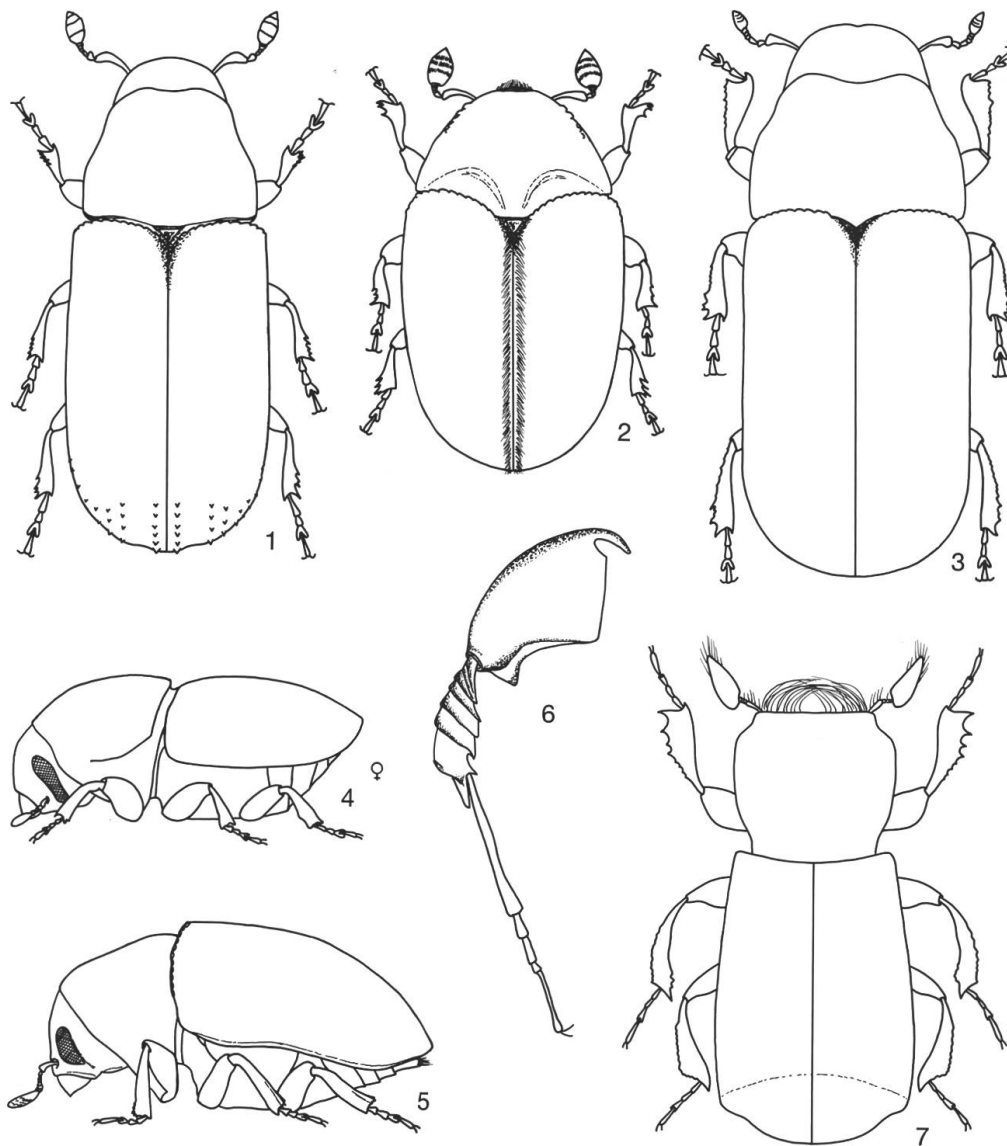
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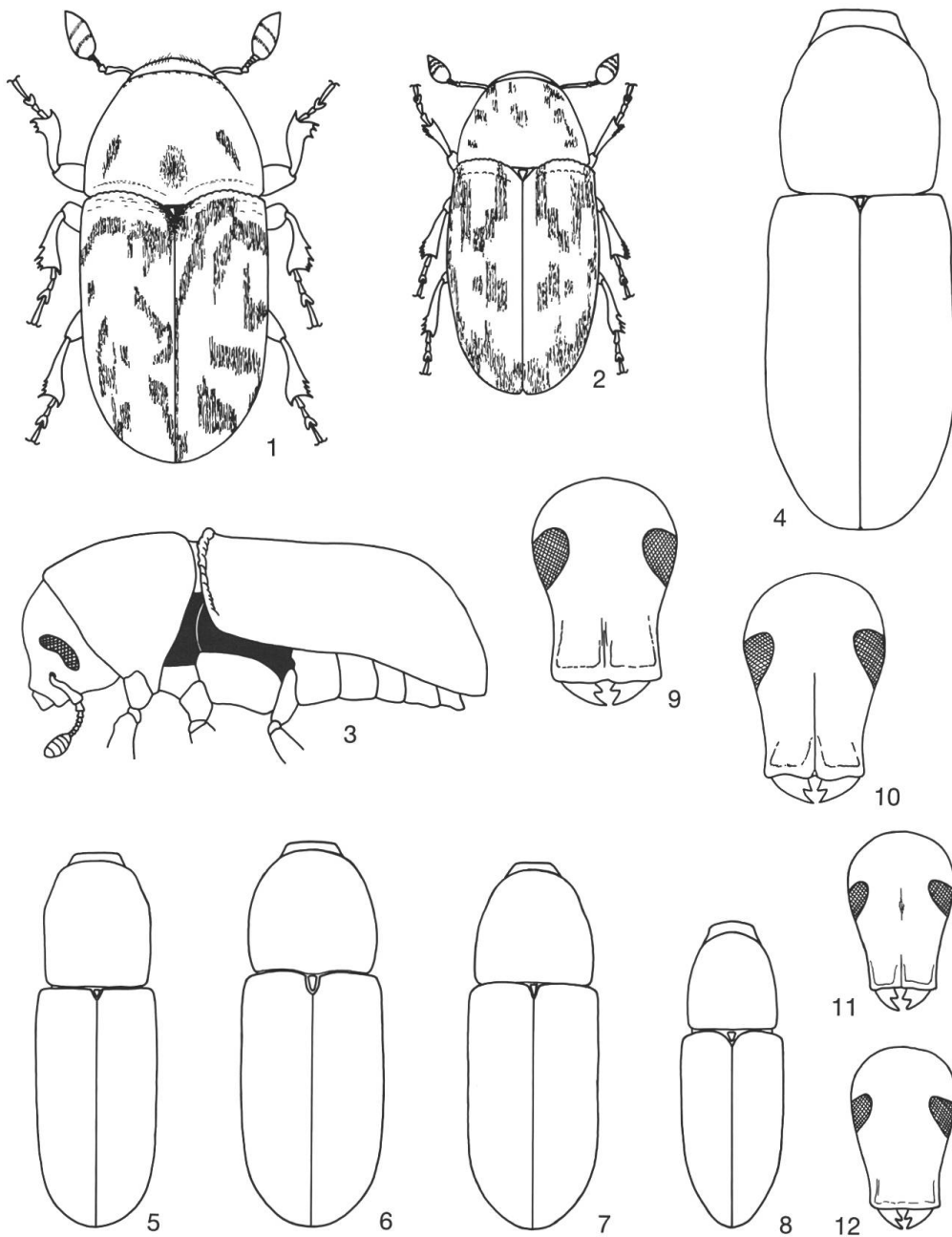
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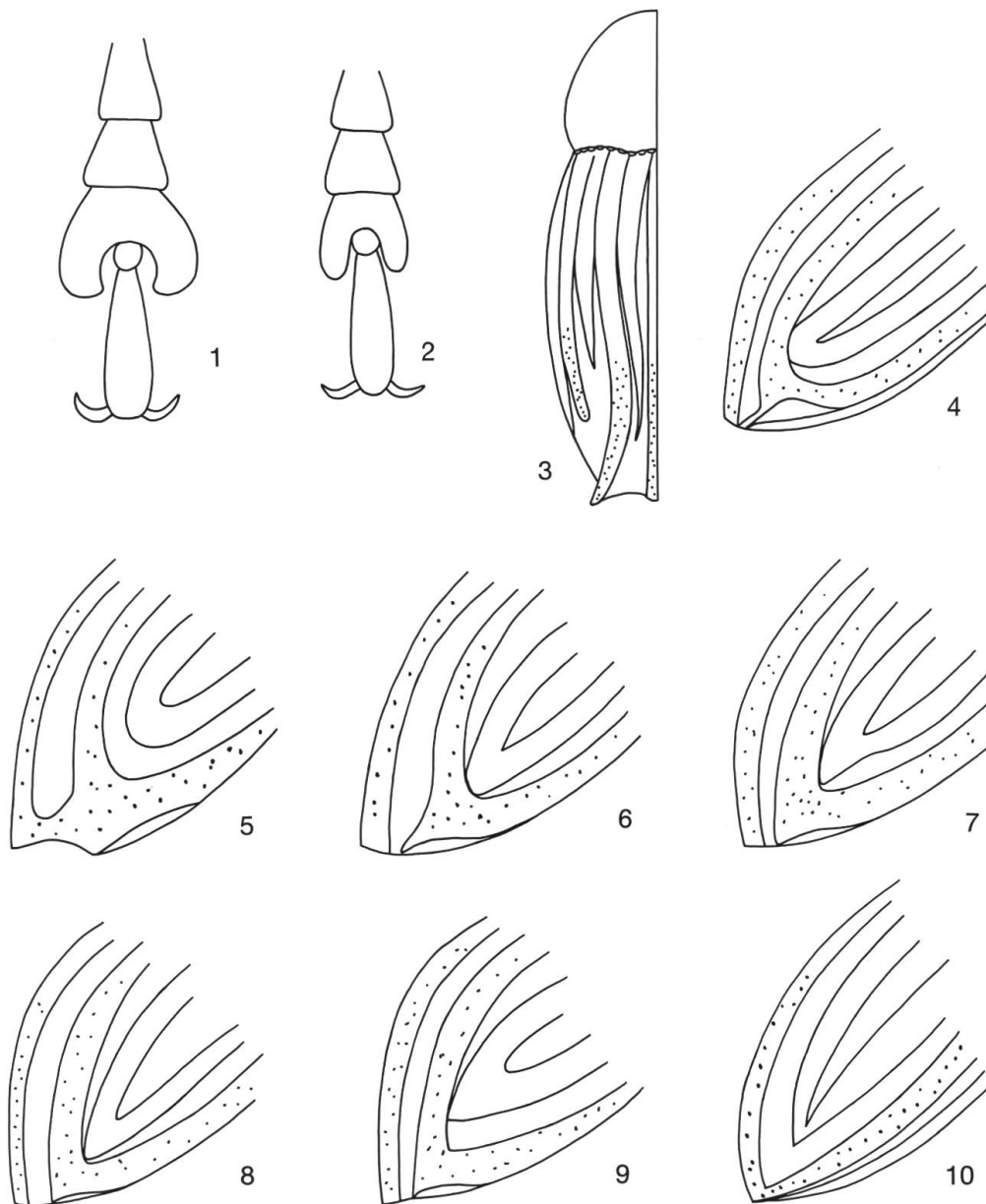
Taf.1: 1 *Tomicus piniperda* (L.); 2 *Hylesinus oleiperda* (F.); 3 *Dendroctonus micans* (Kug.); 4 *Scolytus intricatus* (Ratzb.) ♀; 5 *Hylesinus crenatus* (F.); 6 *Platypus cylindrus* (F.); 7 *Scolytoplatus daimio* Blandf.

Abb.7 nach Stark, 1952; Abb.1–6 orig. M. Knízek



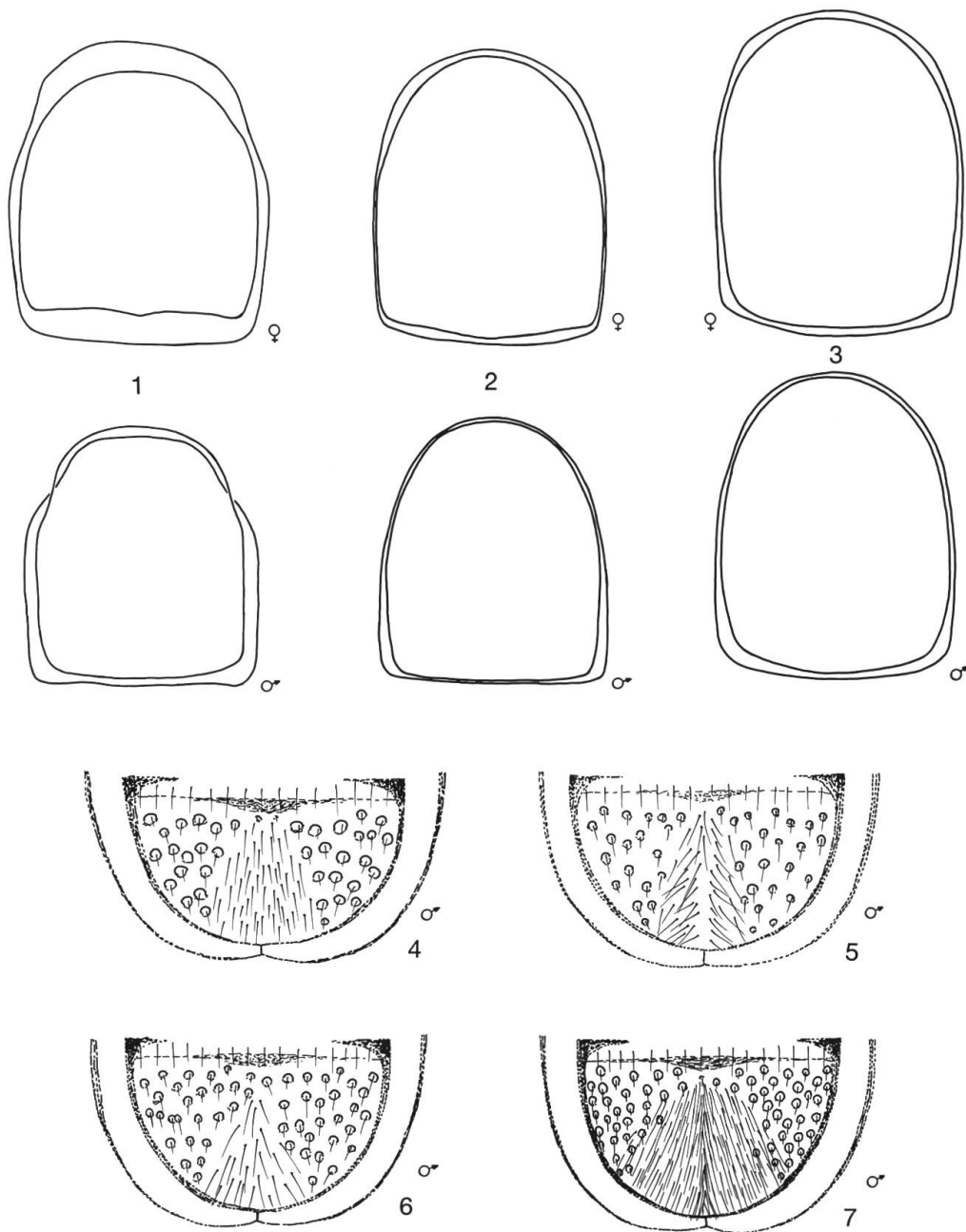
Taf.2: 1 *Leperisinus fraxini* (Panz.); 2 *Pteleobius vittatus* (F.); 3 *Hylastinus obscurus* (Marsh.); 4,9 *Hylastes cunicularius* Er.; 5 *H. linearis* Er.; 6,12 *H. opacus* Er.; 7 *H. angustatus* (Hbst.); 8,11 *H. attenuatus* Er.; 10 *H. ater* (Payk.).

Abb.3 nach Spessivtseff, 1925; 9–12 nach Pfeffer, 1955; 1,2,4–8 orig. M. Knízek



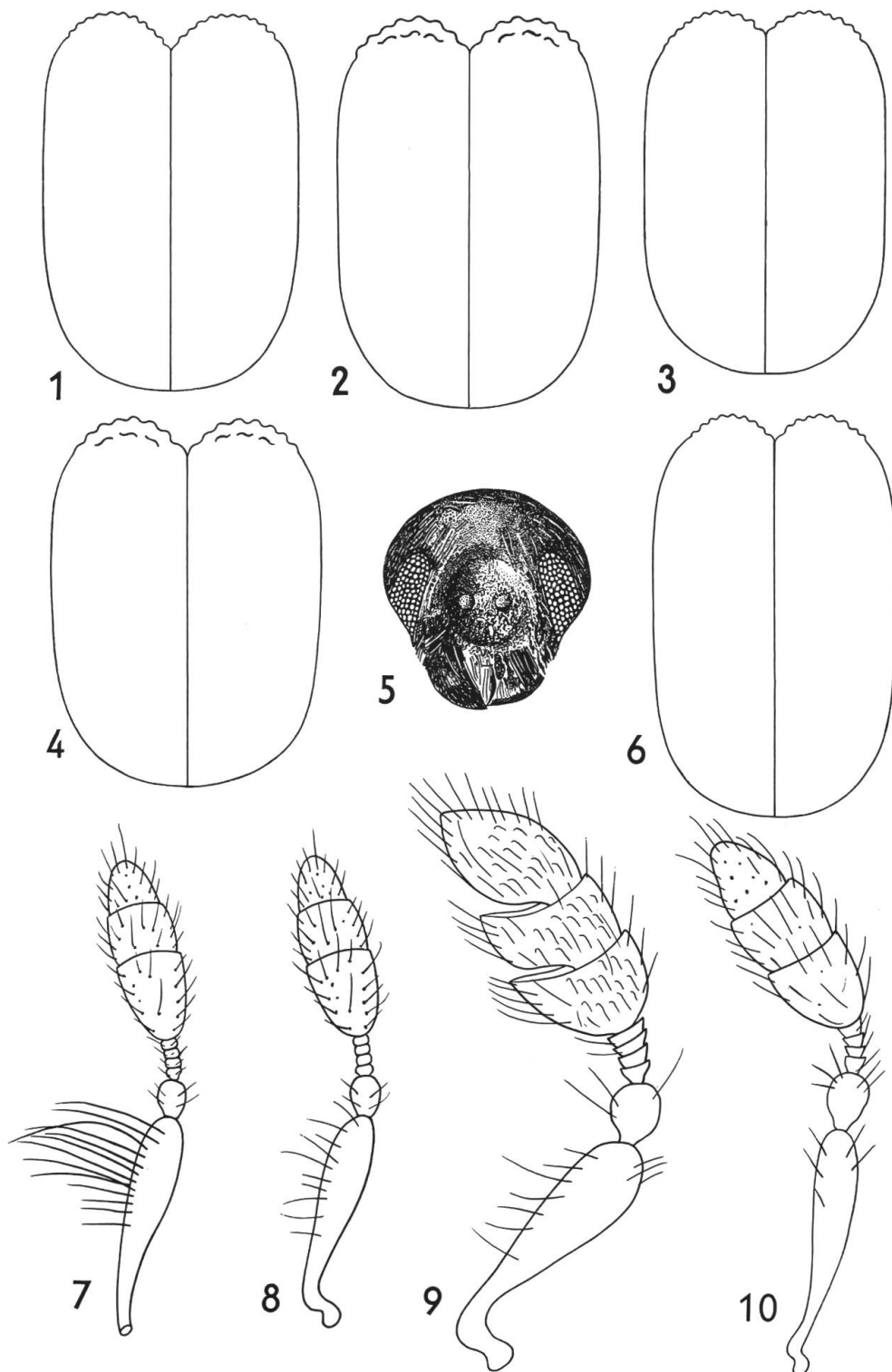
Taf.2A: 1 *Hylurgops glabratus* (Zett.); 2 *Hylastes ater* (Payk.); 3 *Carphoborus rossicus* Sem.; 4 *C. teplouchovi* Spess.; 5 *C. cholodkovskyi* Spess.; 6 *C. minimus* (F.); 7 *C. marani* Pfeff.; 8 *C. henscheli* Reitt.; 9 *C. bonnairei* Briss.; 10 *C. pini* Eichh. ♂.

Abb.1,2 nach Nunberg, 1954; 3,5–10 nach Pfeffer, 1955; 4 orig. M. Knízek



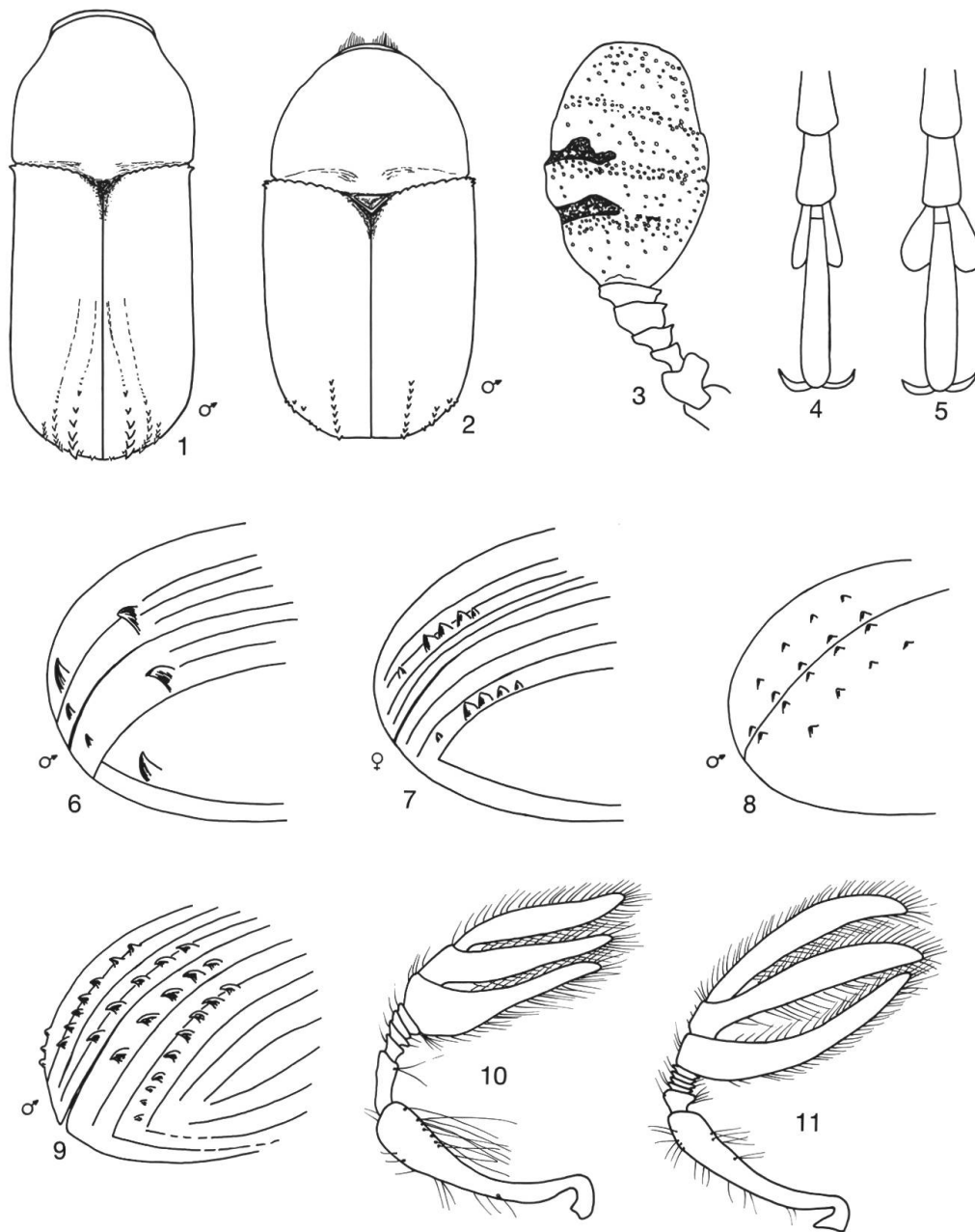
Taf.3: 1,4 *Hylastes cunicularius* Er.; 2,5 *H. brunneus* Er.; 3,6 *H. ater* (Payk.); 7 *H. batnensis anatolicus* Knízek & Pfeffer.

Abb.1–6 nach Grocholski et Aut., 1976; 7 orig. M. Knízek



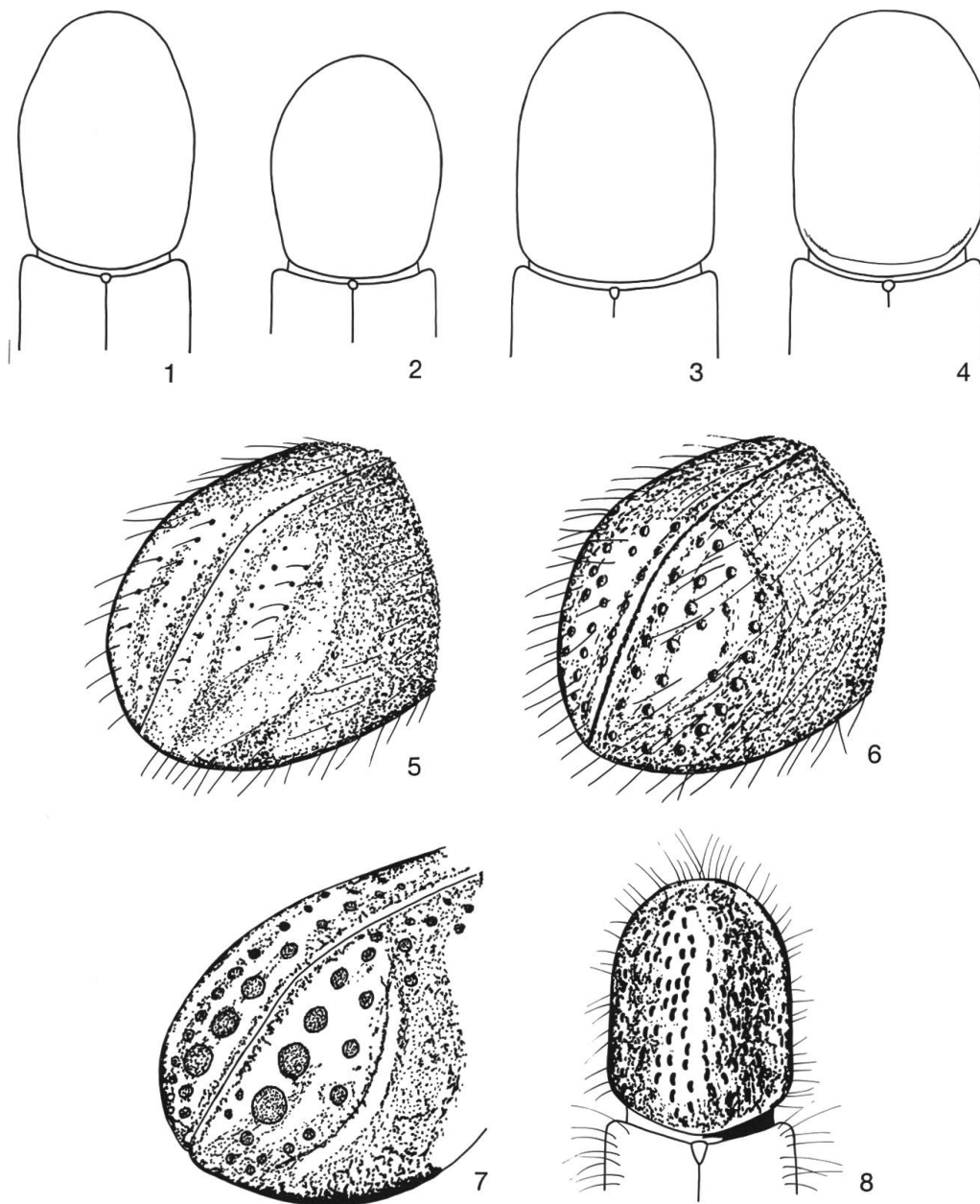
Taf.4: 1,10 *Phloeophthorus peyerimhoffi* Egg.; 2,8 *P. pseudocristatus* Pfeff.; 3 *P. perfoliatus* Woll.; 4,7 *P. cristatus cristatus* Fauv.; 5,6 *P. rhododactylus rhododactylus* (Marsh.); 9 *P. pubifrons pubifrons* Guill.

Abb.1-10 nach Pfeffer, 1982



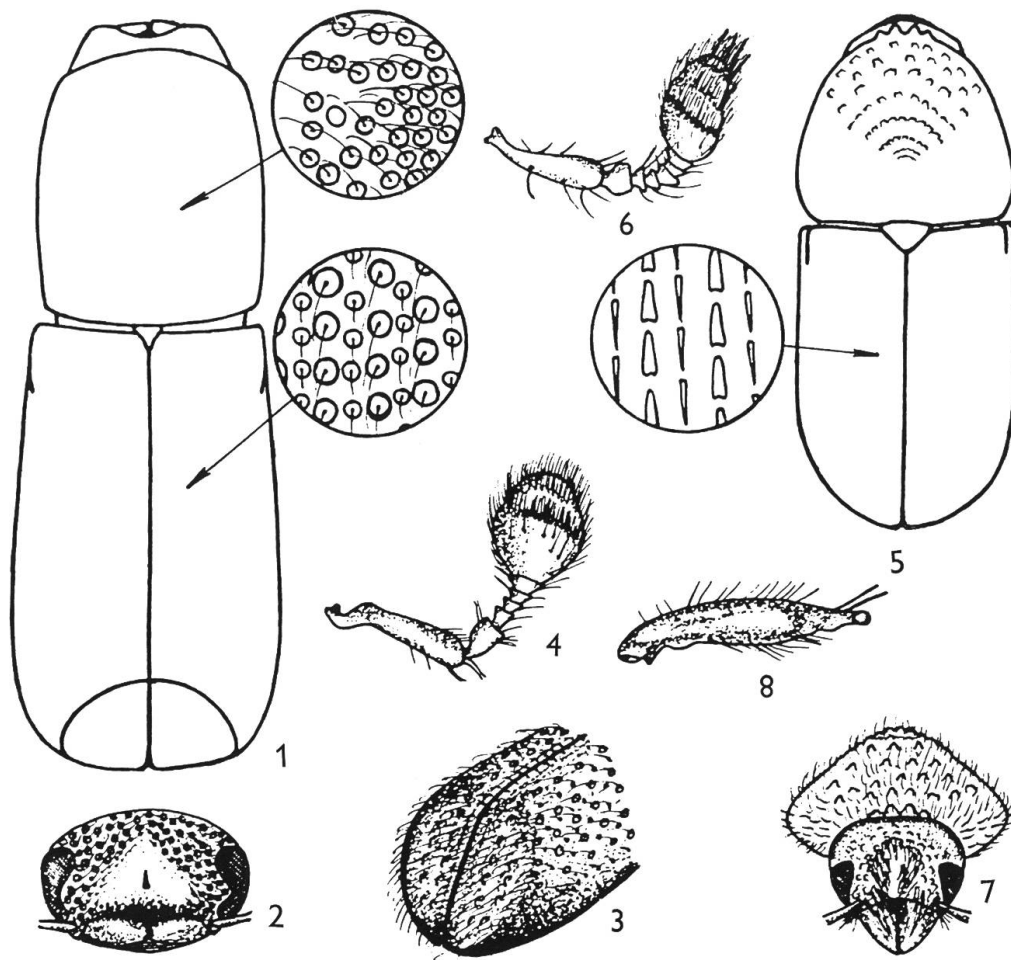
Taf.5: 1 *Phloeosinus turkestanicus* Sem. ♂; 2 *P. thujae thujae* (Perr.) ♂; 3 *P. henschi* Reitt.; 4 *P. aubei* (Perr.); 5,9 *P. rudis* Blandf. ♂; 6,7 *P. armatus* Reitt. ♂, ♀; 8 *P. cedri* Briss.; 10 *Phloeotribus caucasicus* Reitt.; 11 *P. scarabaeoides scarabaeoides* (Bern.).

Abb.4,5,9 nach Balachowsky, 1949; 3,6–8 nach Pfeffer, 1955; 1,2,10,11 orig.
M. Knízek

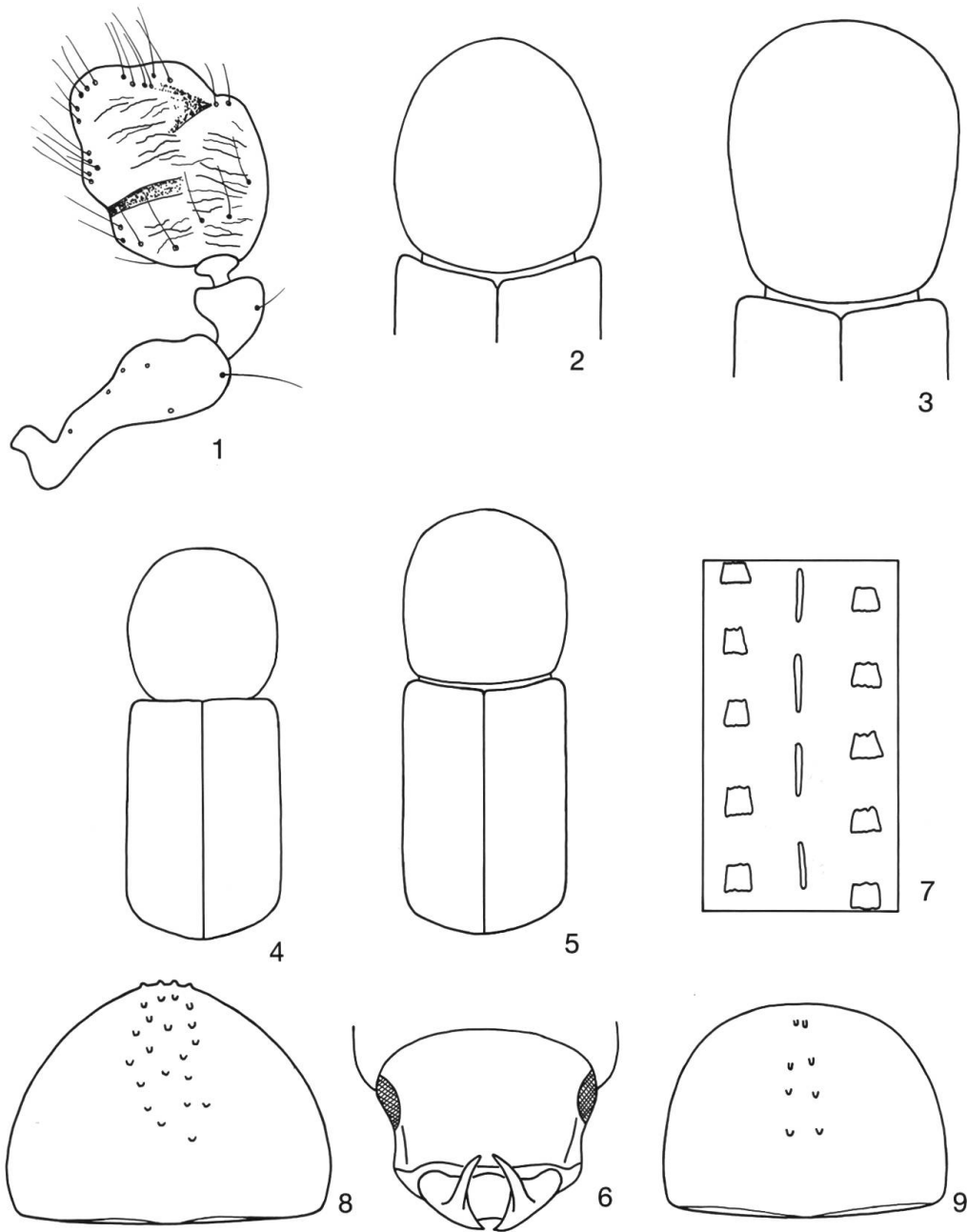


Taf.6: 1,5 *Thamnurgus varipes* Eichh.; 2 *T. delphinii* (Rosenh.); 3 *T. petzi* Reitt.; 4,6 *T. kaltenbachii* (Bach); 7,8 *T. brylinskii* Reitt.

Abb.1–8 nach Balachowsky, 1949

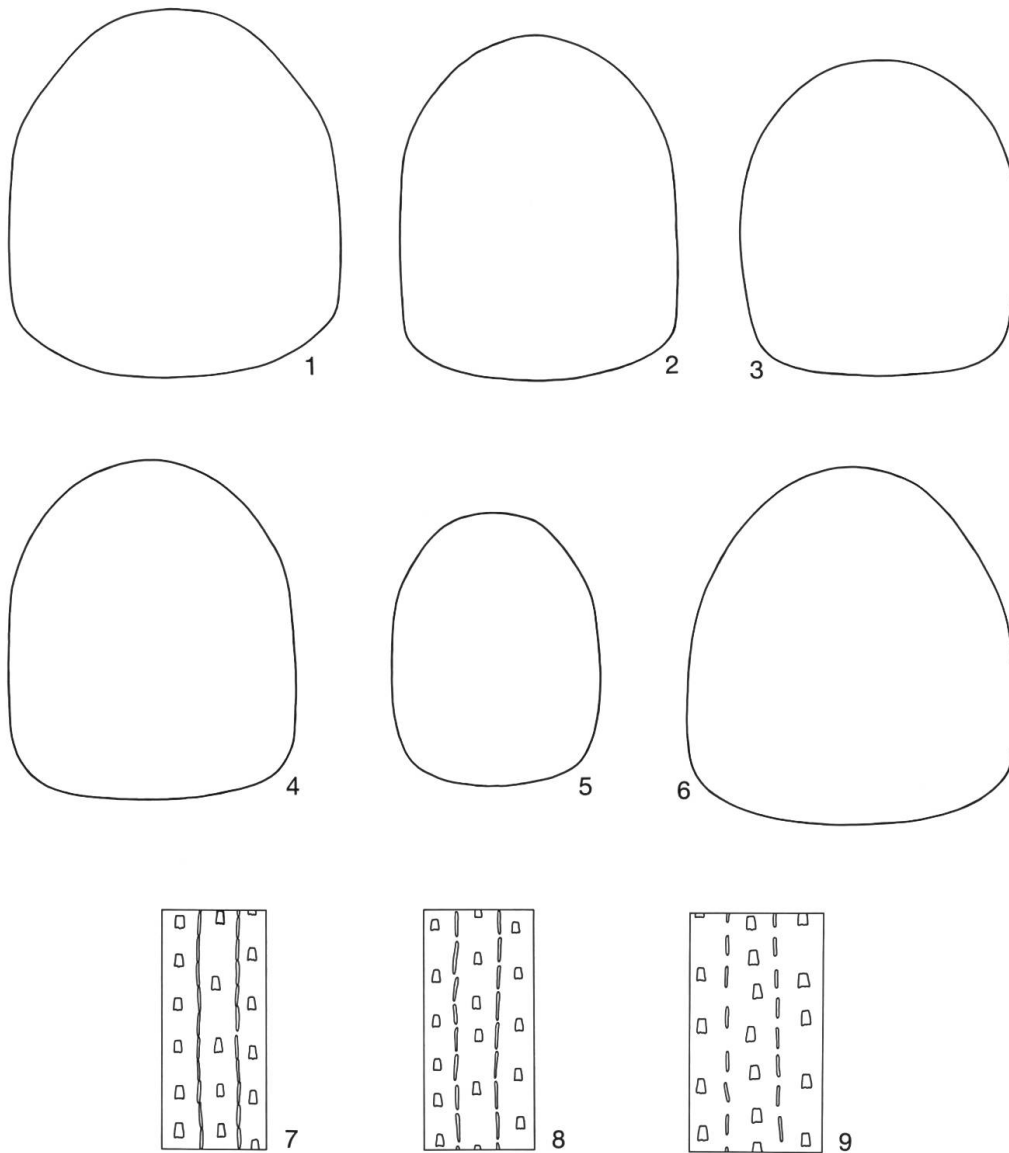


Taf.7: 1–4 *Taphronurgus exul* (Reitt.) ♂; 5–8 *Pseudothysanoe mongolica* (Sokan.).
 Orig. M. Knizek



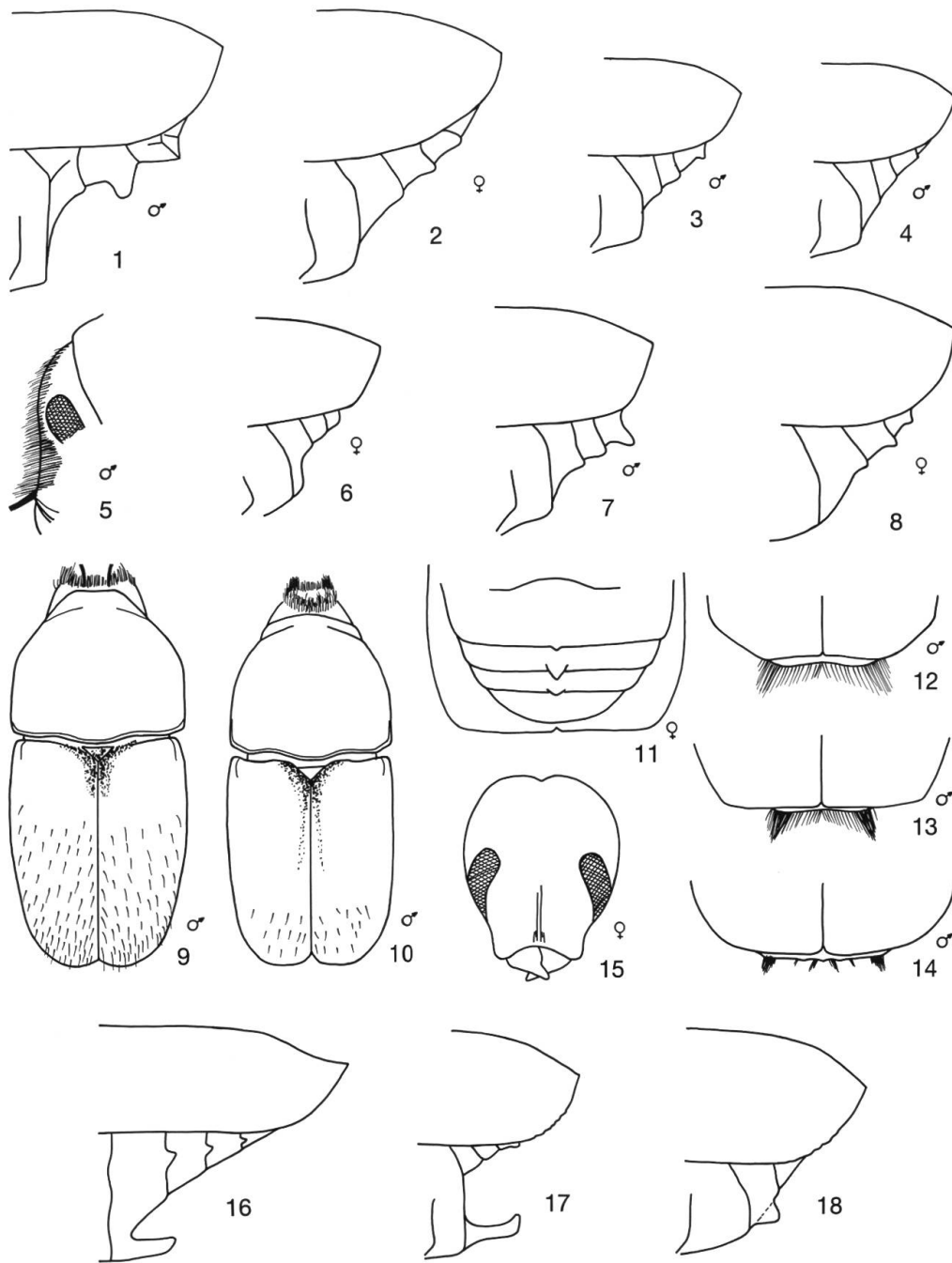
Taf.8: 1 *Crypturgus* sp.; 2 *Cisurgus maurus* Egg.; 3 *C. ferulae* Pfeff.; 4 *Triotemnus subretusus* Woll.; 5,6 *T. longicollis* Peyer. ♂; 7 *Liparthrum mori* (Aubé); 8 *L. corsicum* Eichh.; 9 *L. balachowskyi* Pfeff.

Abb.1,7 nach Balachowsky, 1949; 2,3 nach Pfeffer, 1983; 4–6 nach Peyerimhoff, 1925; 8, 9 orig. M. Knízek



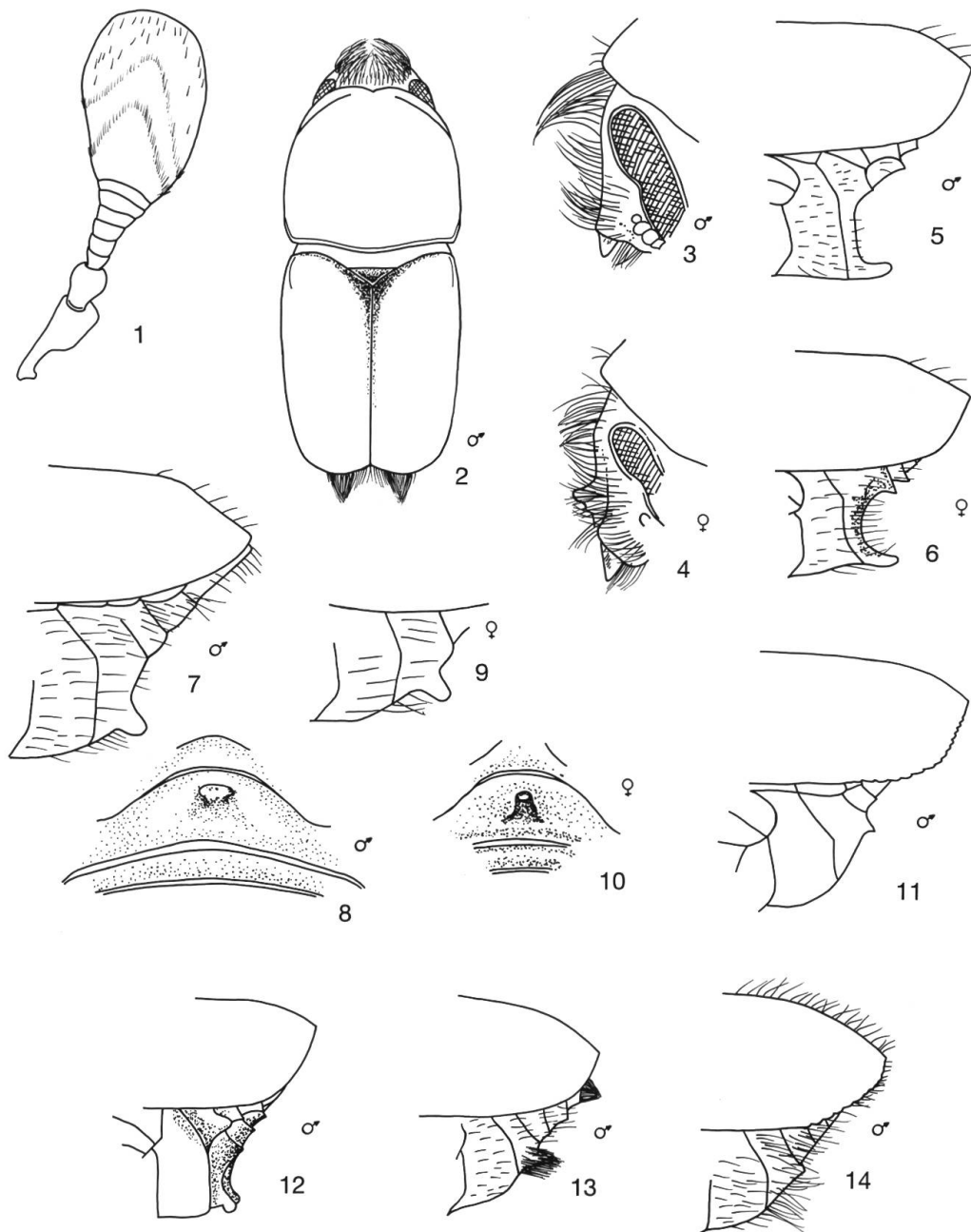
Taf.8A: 1 *Crypturgus cinereus* (Hbst) ♂; 2 *C. dubius* Eichh.; 3 *C. hispidulus* Thoms.; 4 *C. mediterraneus* Eichh.; 5 *C. parallelcollis* Eichh.; 6 *C. numidicus* Ferr. ♀; 7 *Liparthrum genistae genistae* (Aubé); 8 *L. balachowskyi* Pfeff. nom. n.; 9 *L. corsicum* Eichh.

Abb.1-9 orig. M. Knízek



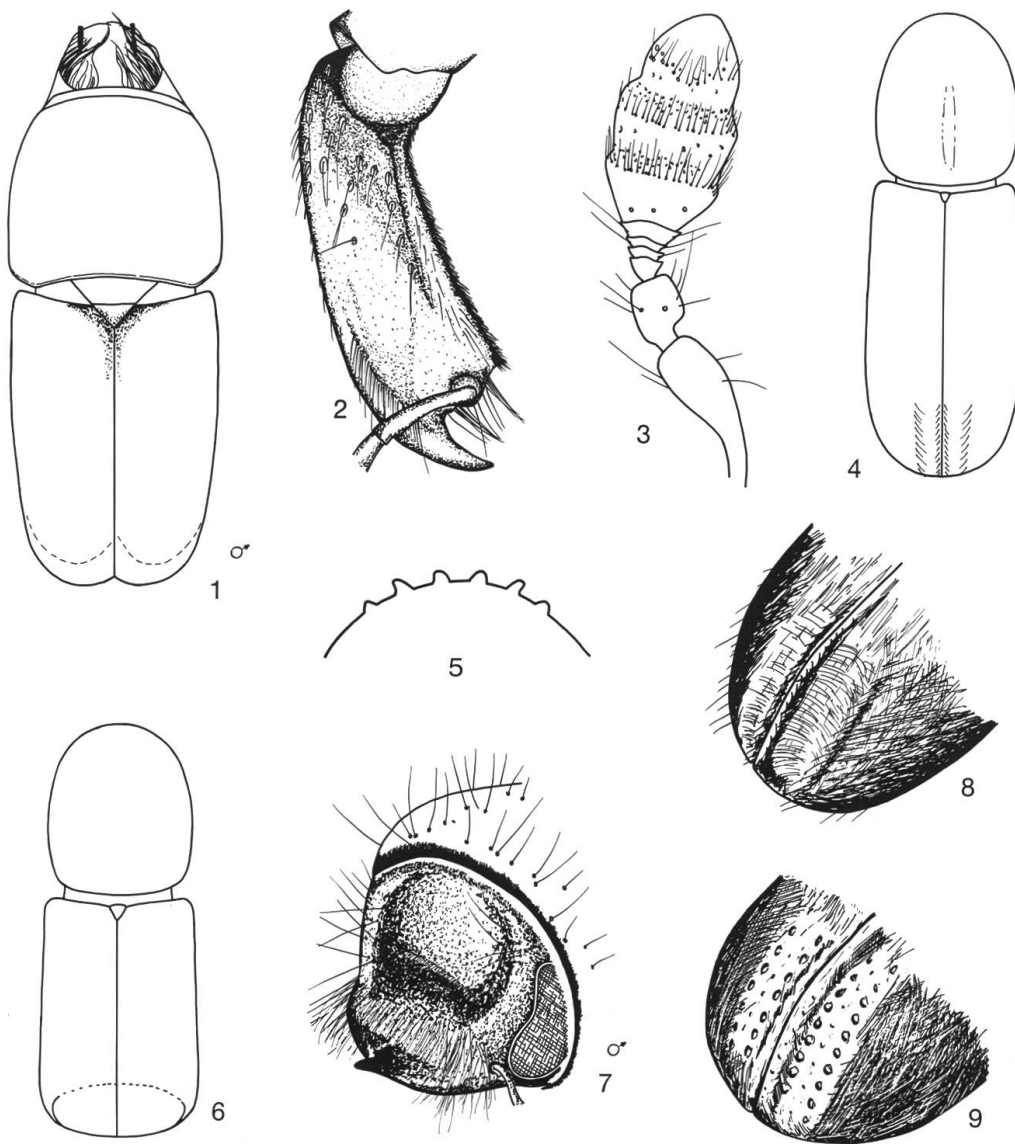
Taf.9: 1,2,15 *Scolytus ratzeburgi* Jans. ♂,♀; 3 *S. laevis* Chap. ♂; 4 *S. mali* (Bechst.) ♂; 5,9 *S. intricatus* (Ratzb.) ♂; 6,7 *S. pygmaeus* (F.) ♂,♀; 8,13 *S. scolytus* (F.) ♂,♀; 10 *S. carpini* (Ratzb.) ♂; 11,12 *S. triarmatus* (Egg.) ♂,♀; 14 *S. sulcifrons* Rey ♂; 16 *S. multistriatus multistriatus* (Marsh.); 17 *S. ensifer* Eichh.; 18 *S. kirschii kirschii* Skal.

Abb.1–10,16–18 nach Michalski, 1973; 15 nach Spessivtseff, 1922; 11–14 orig. M. Knízek



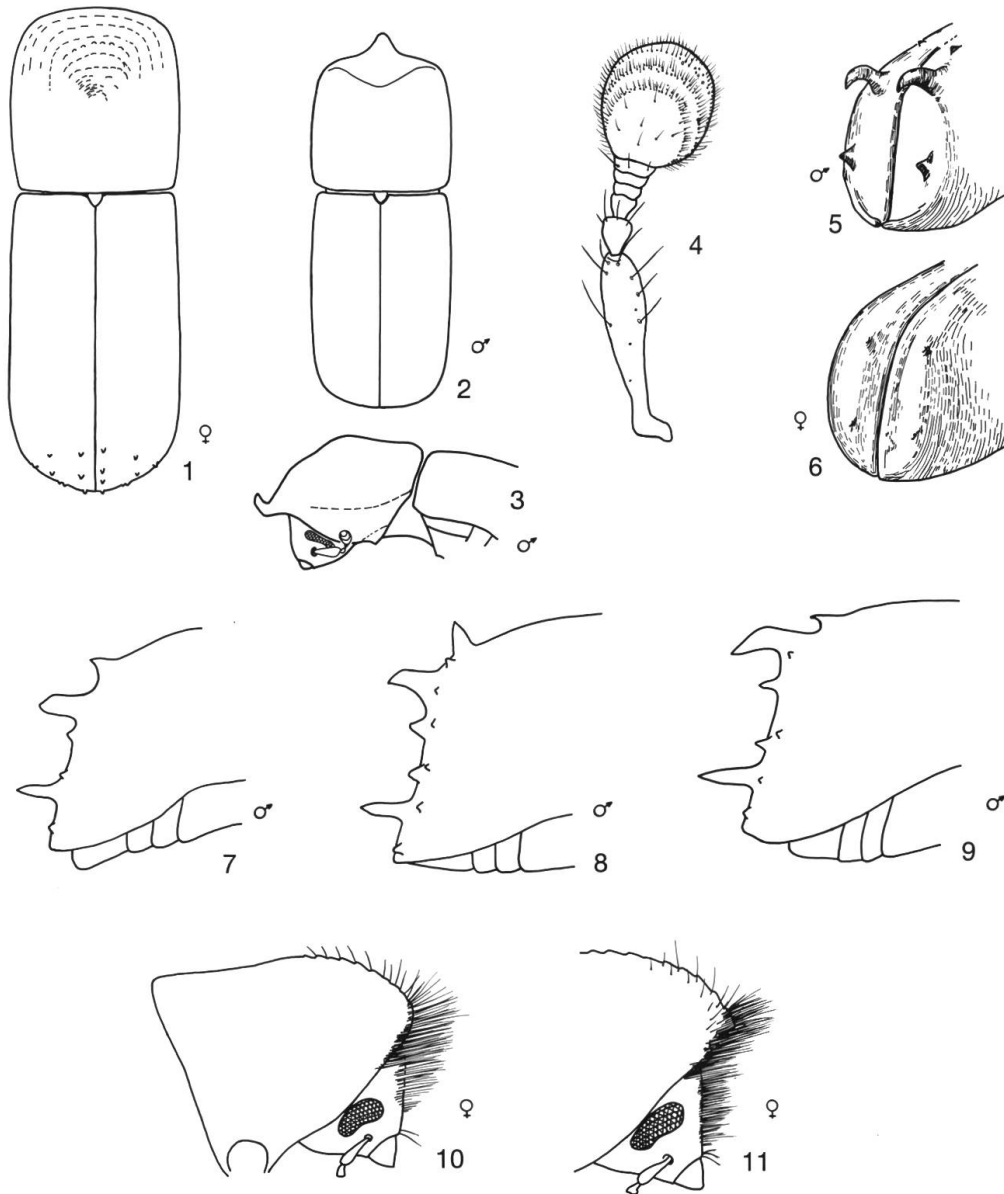
Taf.10: 1 *Scolytus* sp.; 2 *S. eichhoffi* Reitt.; 3,4 *S. gretschkini* Sokan. ♂, ♀; 5,6 *S. ecksteini* Butov. ♂, ♀; 7–10 *S. schevyrewi* Sem. ♂, ♀; 11 *S. jaroschewskii* Schev.; 12 *S. kozikowskii* Mich.; 13 *S. zaitzevi* Butov.; 14 *S. numidicus* Briss.

Abb.1–14 nach Michalski, 1973



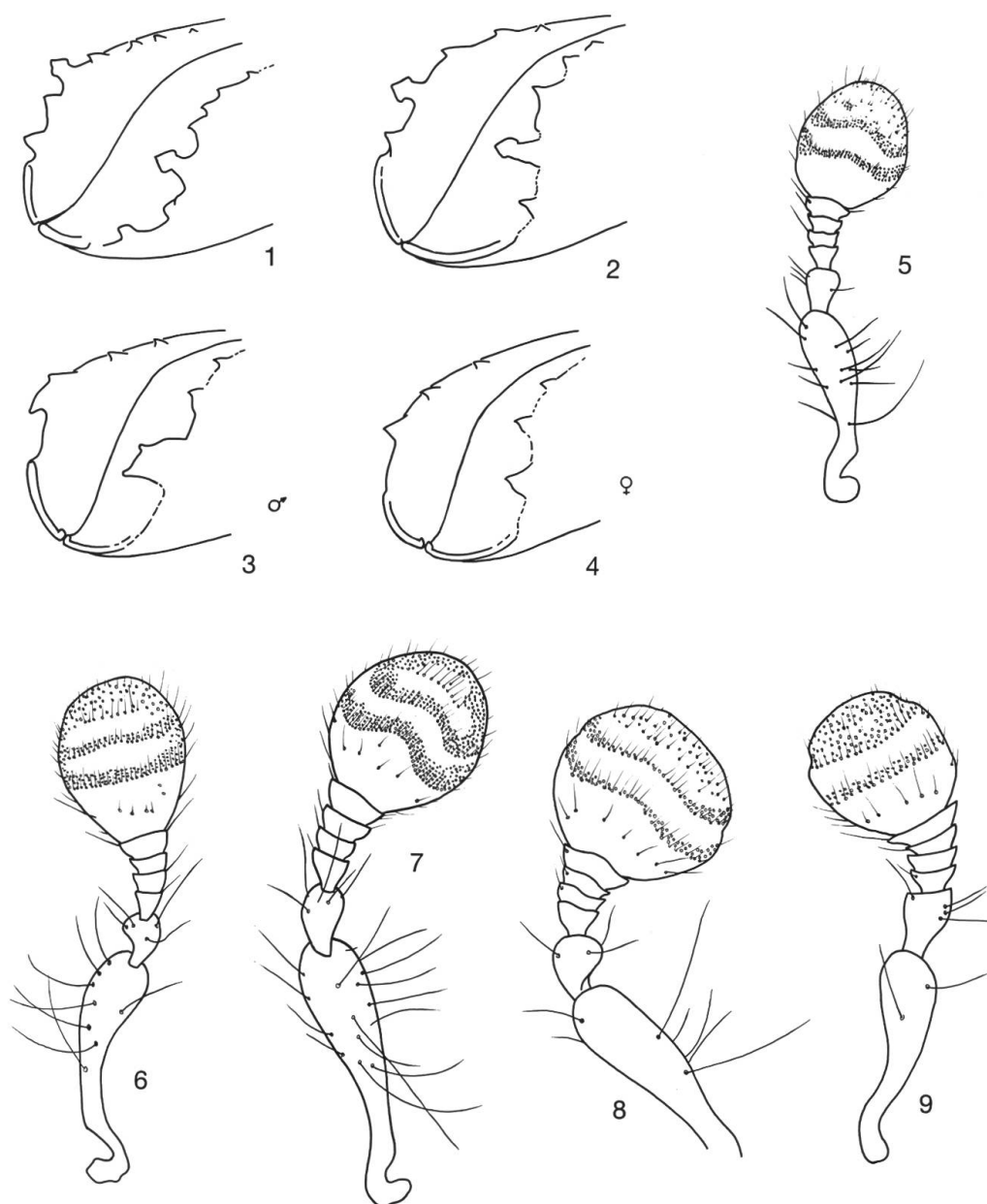
Taf.10A: 1 *Scolytus tadzhikistanicus* Stark; 2 *S. ratzeburgi* Jans.; 3 *Trypophloeus granulatus* (Ratzb.); 4,8 *Lymanator coryli* (Perr.); 5 *Hypothenemus eruditus* Westw.; 6 *Pseudothamnurgus mediterraneus* (Egg.); 7 *P. scrutator* (Pand.); 9 *Lymanator aceris aceris* (Lind.).

Abb.1 nach Michalski, 1973; 3,8,9 nach Nunberg, 1954; 5 nach Wood, 1982; 6,7 nach Balachowsky, 1949; 2,4 orig. M. Knízek



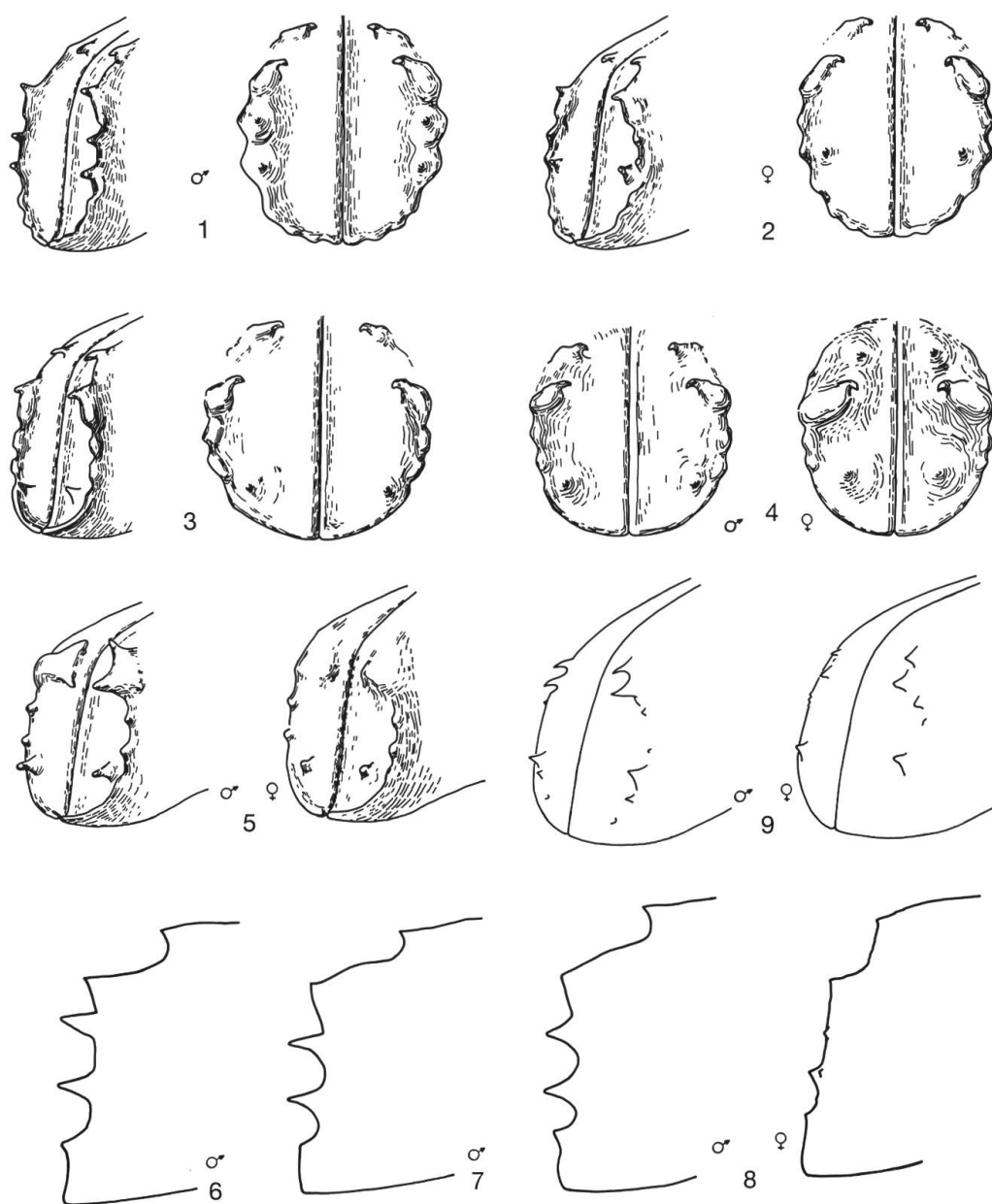
Taf.11: 1 *Xyleborus eurygraphus* (Ratzb.) ♀; 2,3 *X. pfeilii* (Ratzb.) ♂; 4 *Xylocleptes bispinus* (Duft.); 5,6 *Pityogenes quadridens* (Hart.) ♂,♀; 7,10 *Pityokteines vorontzowi* (Jak.) ♂,♀; 8 *P. curvidens* (Germ.) ♂; 9,11 *P. spinidens* (Reitt.) ♂,♀.

Abb.4 nach Balachowsky, 1949; 5,6 nach Spessivtseff, 1925; 10,11 nach Nunberg, 1954; 1-3,7-9 orig. M. Knízek



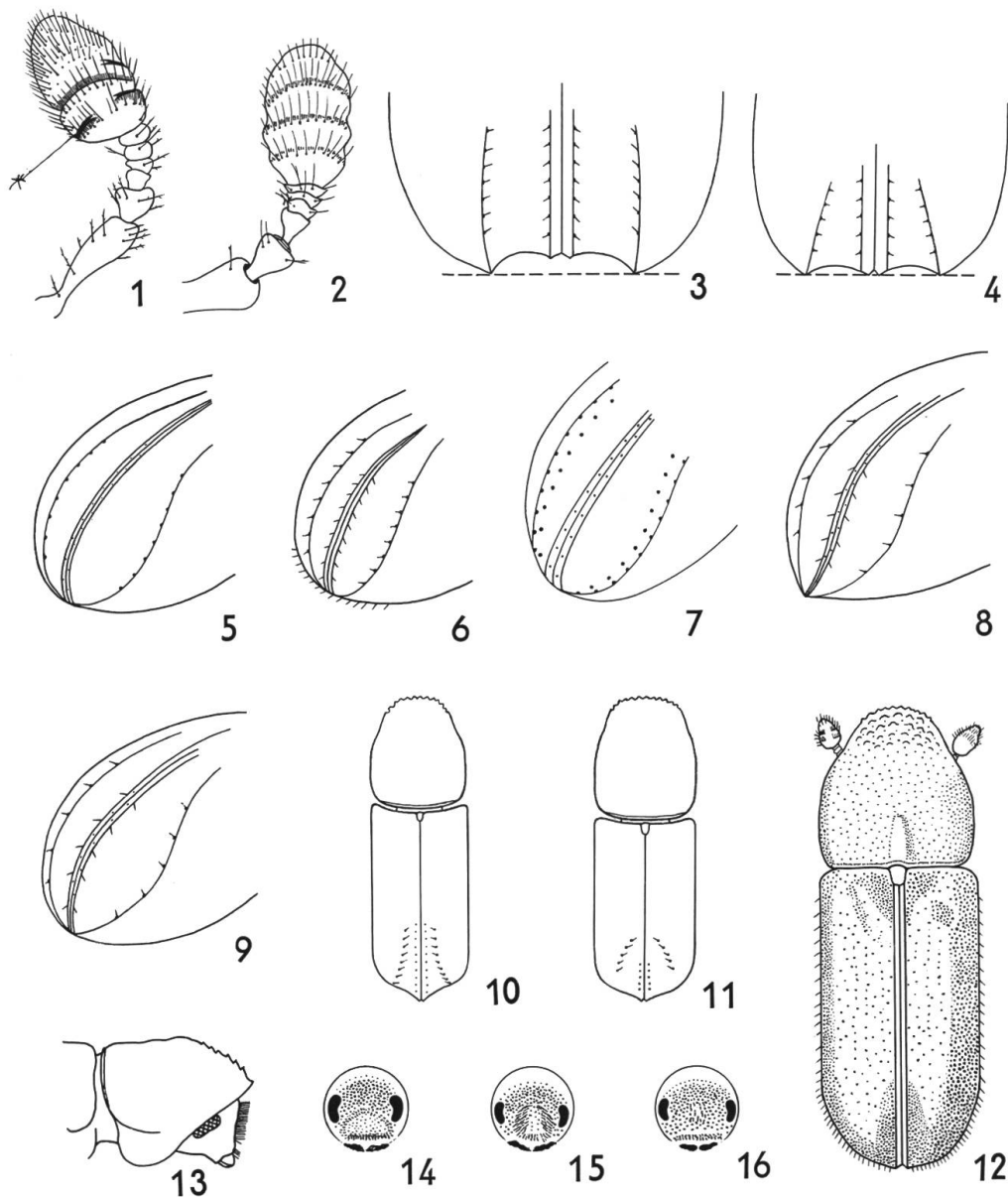
Taf.12: 1 *Ips sexdentatus* (Börn.); 2,7 *I. cembrae* Heer; 3,4 *I. acuminatus* (Gyll.) ♂, ♀; 5 *I. duplicatus* (Sahlb.); 6 *I. amitinus* (Eichh.); 8 *Orthotomicus proximus* (Eichh.); 9 *O. laricis* (F.).

Abb.5,8 nach Nunberg, 1954; 6,7,9 nach Balachowsky, 1949; 1-4 orig. M. Knízek



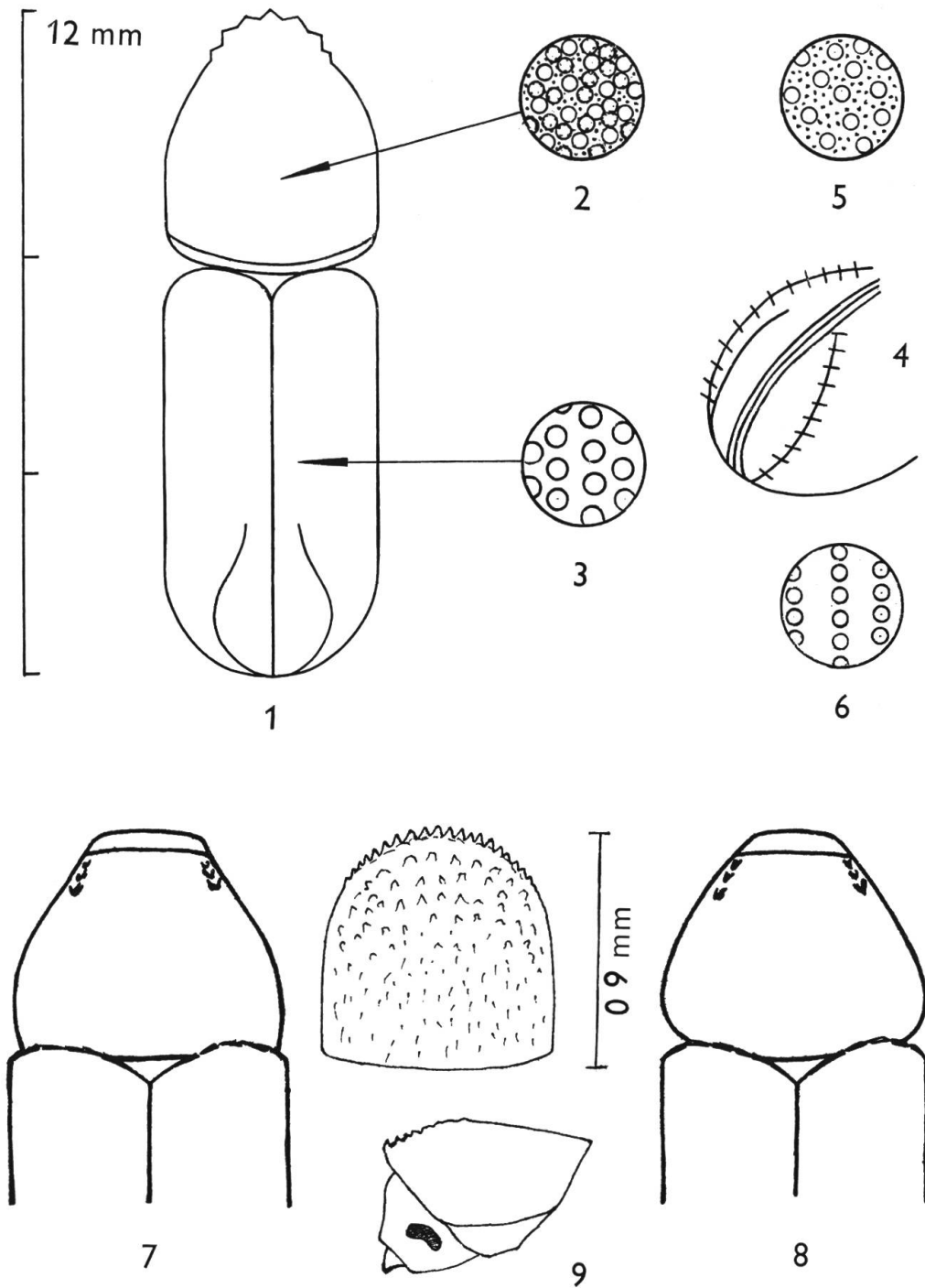
Taf.13: 1,2 *Orthotomicus proximus* (Eichh.) ♂,♀; 3 *O. laricis* (F.); 4 *O. suturalis* (Gyll.) ♂,♀; 5 *O. longicollis* (Gyll.) ♂,♀; 6 *O. tridentatus* (Egg.) ♂; 7 *O. robustus* (Knotek) ♂; 8 *O. erosus* (Woll.) ♂,♀; 9 *O. starki* Spess. ♂,♀.

Abb.1–5 nach Spessivtseff, 1925; 9 nach Spessivtseff, 1926; 6–8 orig. M. Knízek



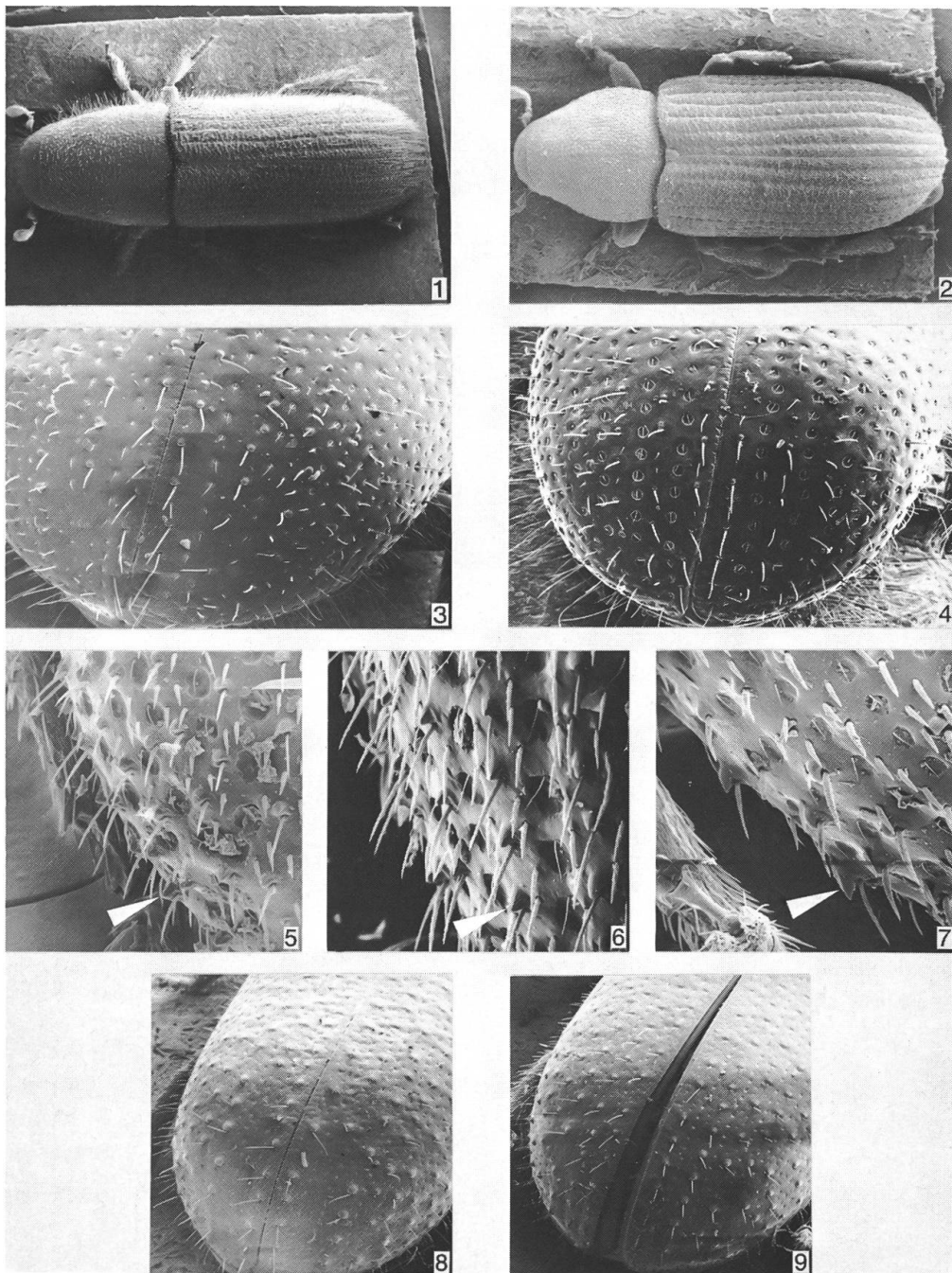
Taf.14: 1 *Pityophthorus* sp.; 2 *Myeloborus* sp.; 3 *Pityophthorus knoteki* Reitt.; 4,9 *P. lichtensteinii* (Ratzb.); 5 *P. glabratus* Eichh.; 6 *P. pubescens* (Marsh.); 7 *P. mauretanicus* Peyer.; 8,11,13 *P. pityographus pityographus* (Ratzb.) ♀; 10 *P. exsculptus* (Ratzb.); 12 *P. morosovi* Spess.; 14 *P. buyssoni angeri* Pfeff. ♀; 15,16 *P. glabratus* Eichh. ♀.

Abb.1–16 nach Pfeffer, 1976



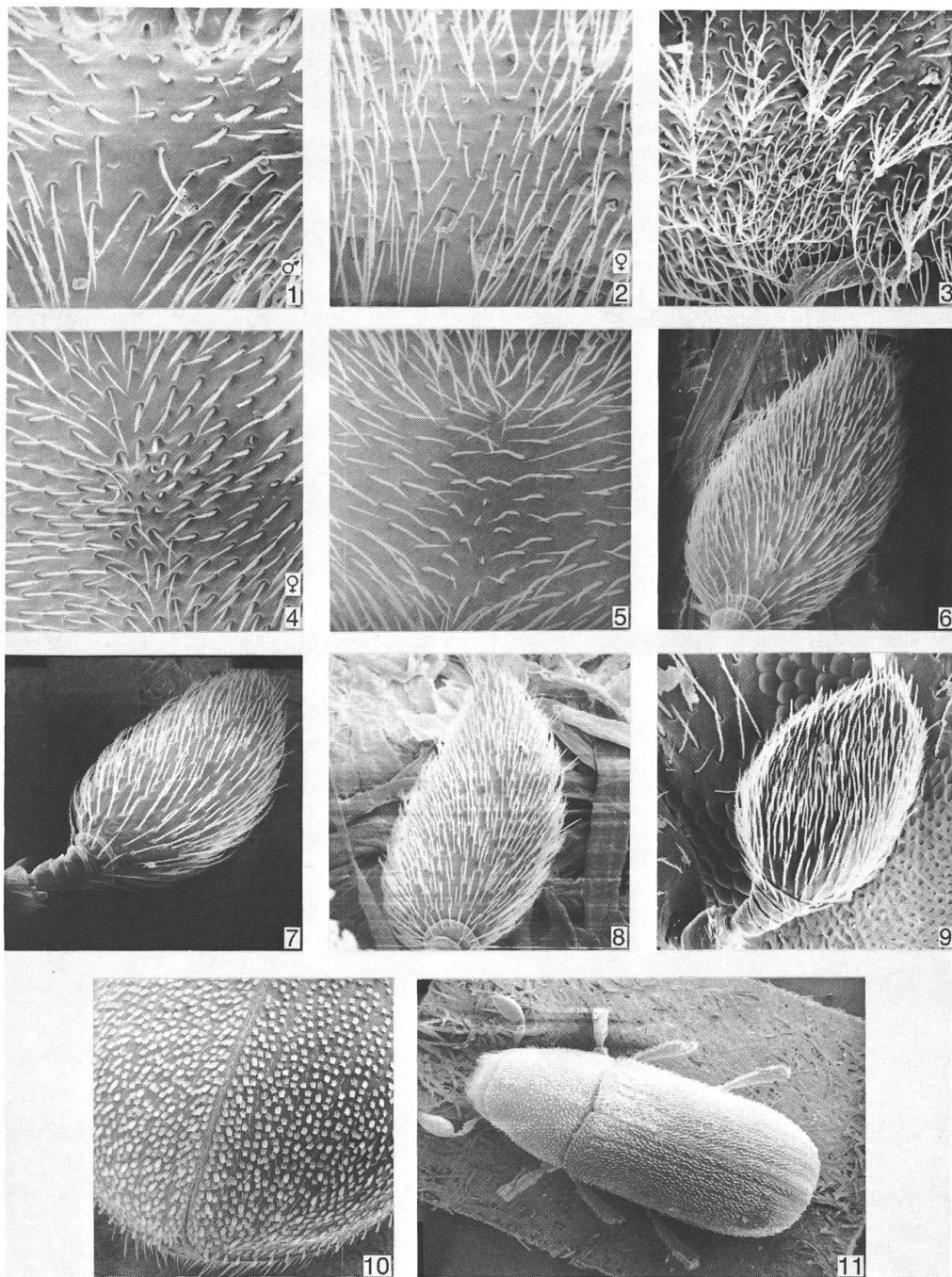
Taf.15: 1–3 *Pityophthorus pinsapo* Pfeff.; 4–6 *P. pubescens* (Marsh.); 7 *Phloeophthorus hercegovinensis* Seitn.; 8 *P. rhododactylus rhododactylus* (Marsh.); 9 *Saliciphilus machnovskyi* (Sokan.).

Abb.1–8 nach Pfeffer, 1982; 9 nach Pfeffer, 1985



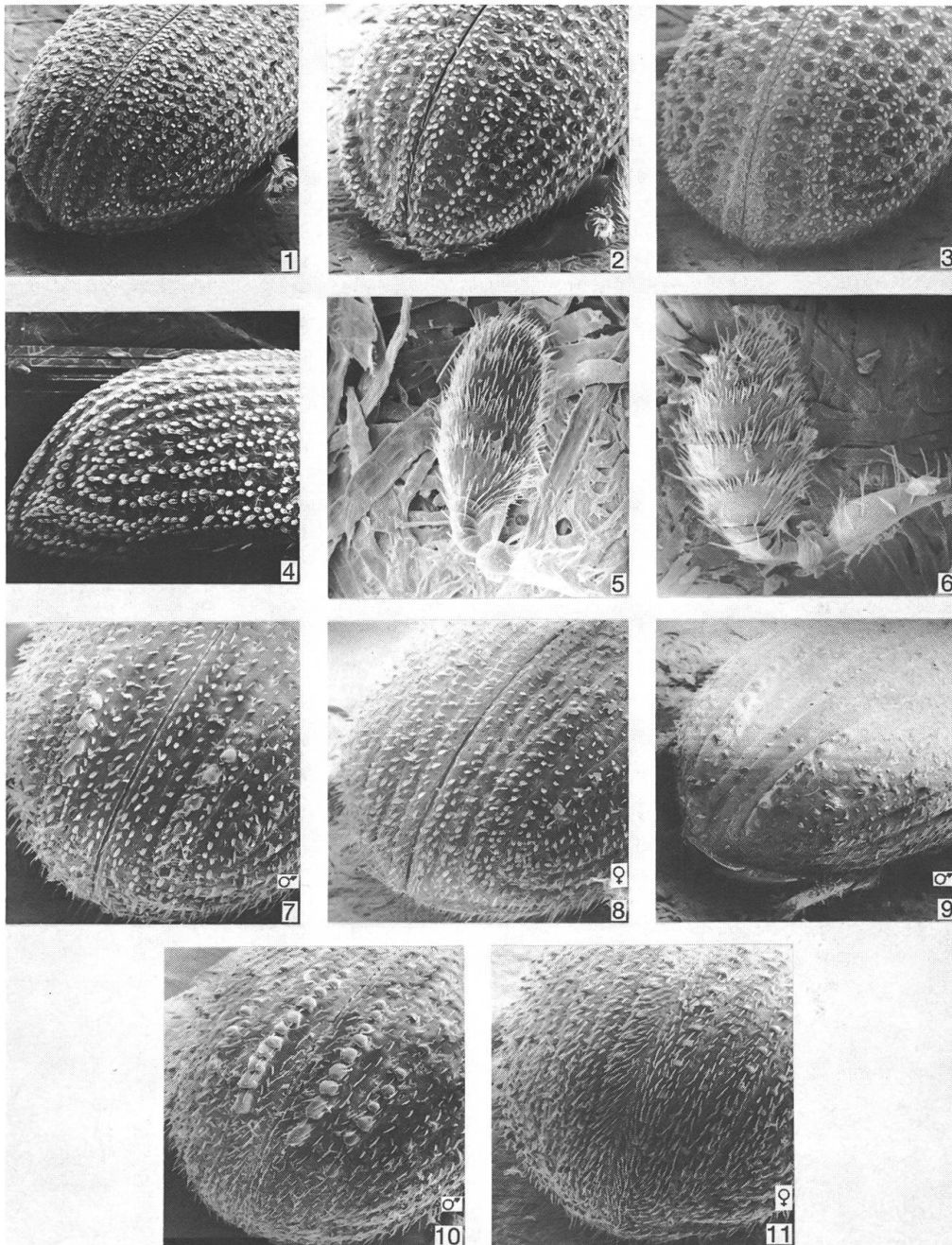
Taf.16: 1 *Hylurgus ligniperda* (F.); 2 *Hylurgops glabratus* (Zett.); 3 *Dryocoetes hectographus* Reitt.; 4 *D. autographus* (Ratzb.); 5 *Hylastinus obscurus* (Marsh.); 6 *H. croaticus* Fuchs; 7 *H. fankhauseri* Reitt.; 8 *Tomicus piniperda* (L.); 9 *T. minor* (Hart.).

Orig. M. Knízek



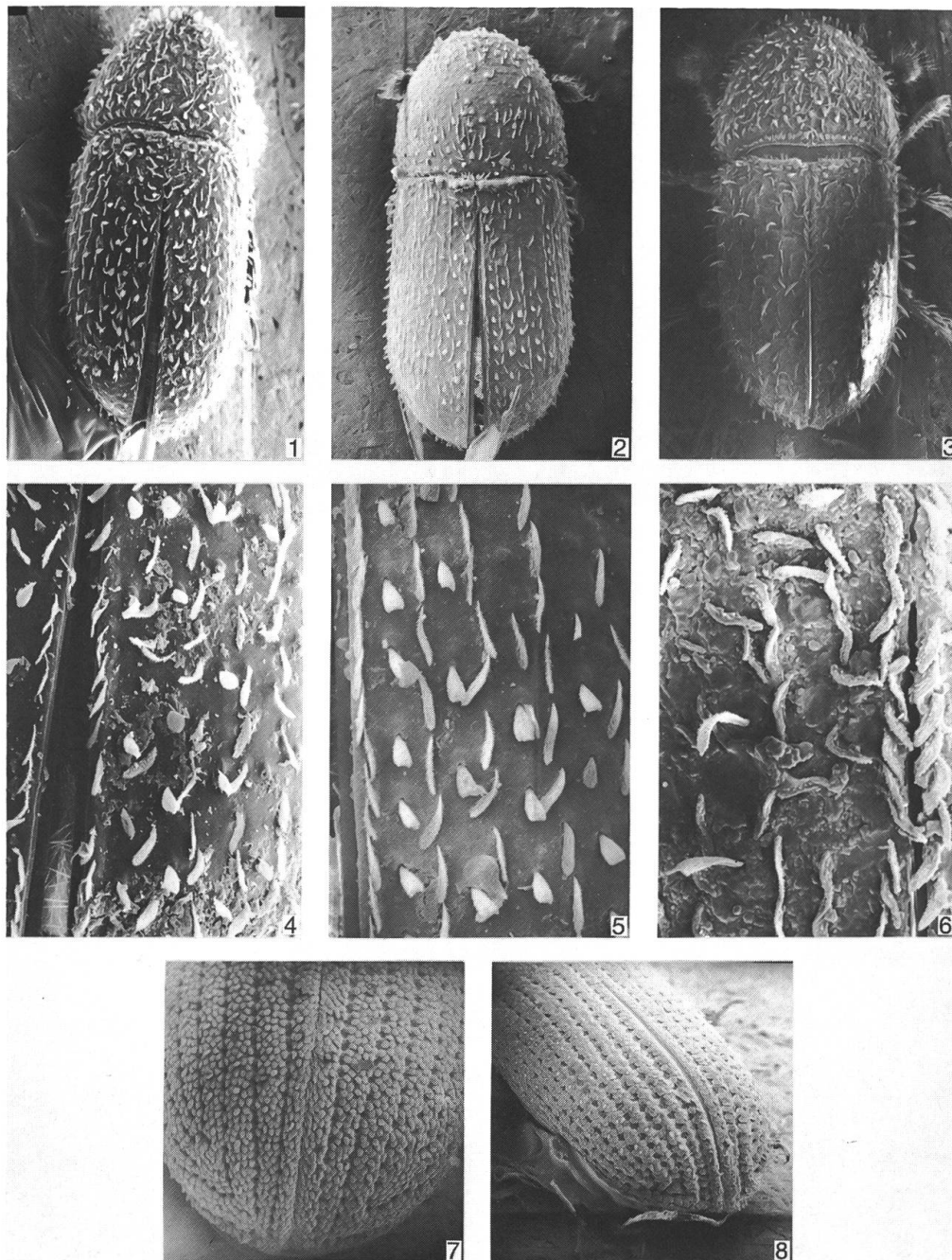
Taf.17: 1,2,6 *Polygraphus poligraphus* (L.) ♂,♀; 3,9 *P. subopacus* Thoms.; 4,7,10 *P. punctifrons* Thoms. ♀; 5,8,11 *P. grandiclava* Thoms.

Orig. M. Knízek



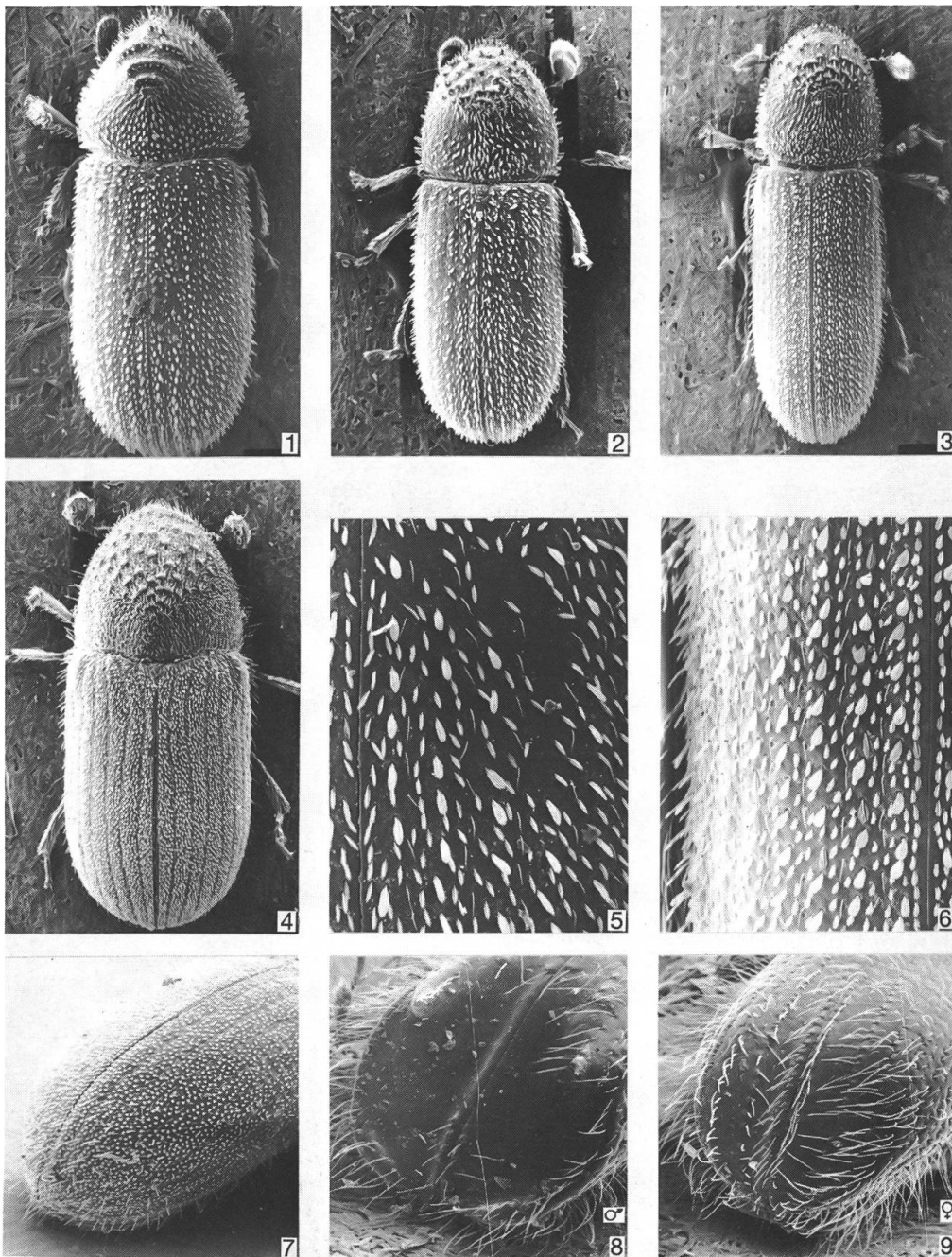
Taf.18: 1 *Carphoborus minimus* (F.); 2 *C. pini* Eichh. ♂; 3 *C. henscheli* Reitt.; 4 *C. bonnairei* Bris.; 5,7,8 *Phloeosinus thujae thujae* (Perr.) ♂,♀; 6,9 *P. thujae serrifer* Wichm.; 10,11 *P. aubei* (Perr.) ♂,♀.

Orig. M. Knízek



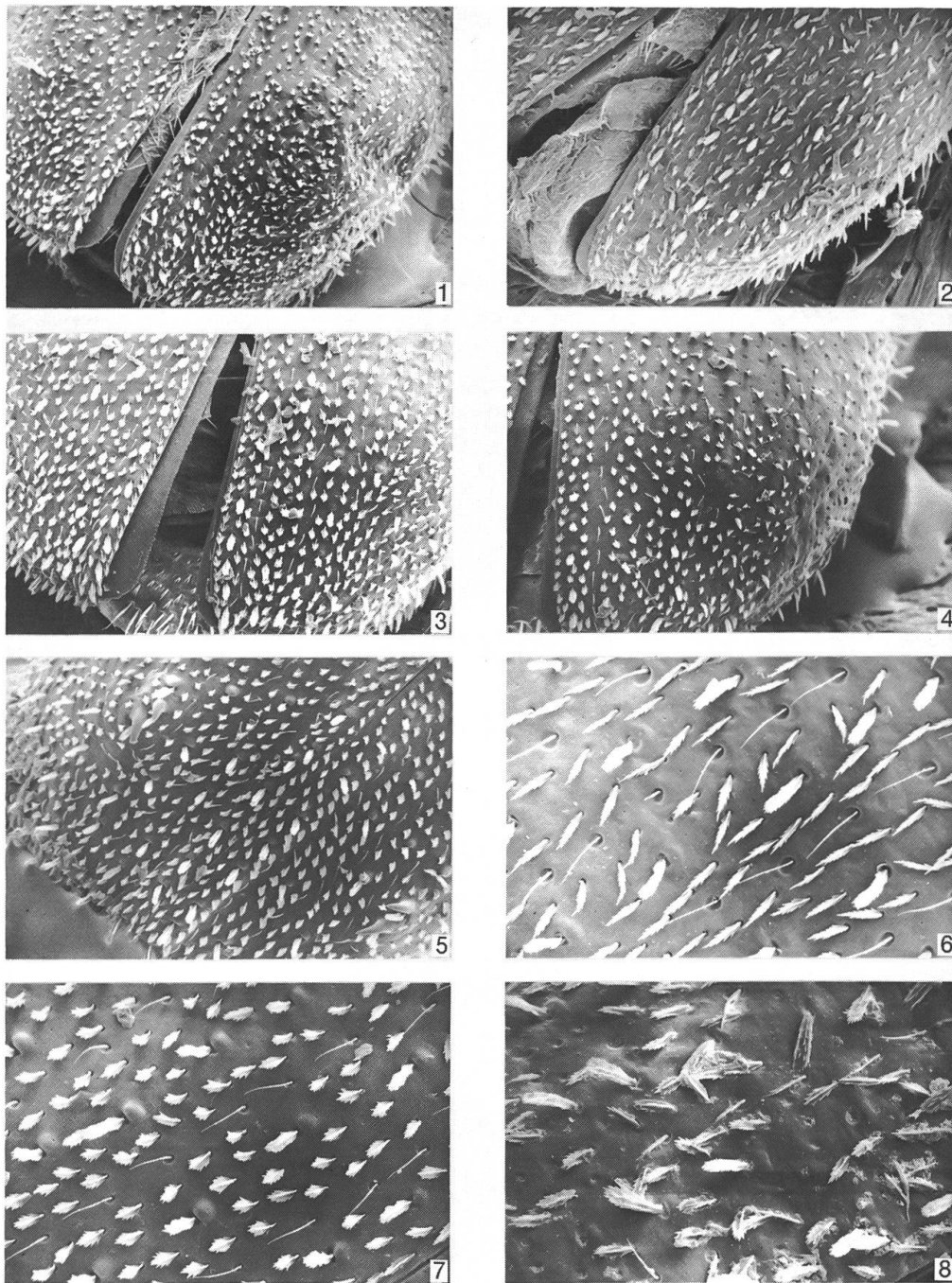
Taf.19: 1,4 *Liparthrum genistae georgi* Knot.; 2,5 *L. genistae genistae* (Aubé); 3,6 *Hypoborus ficus* Er.; 7 *Pteleobius vittatus* (F.); 8 *P. kraatzii* (Eichh.).

Orig. M. Knízek



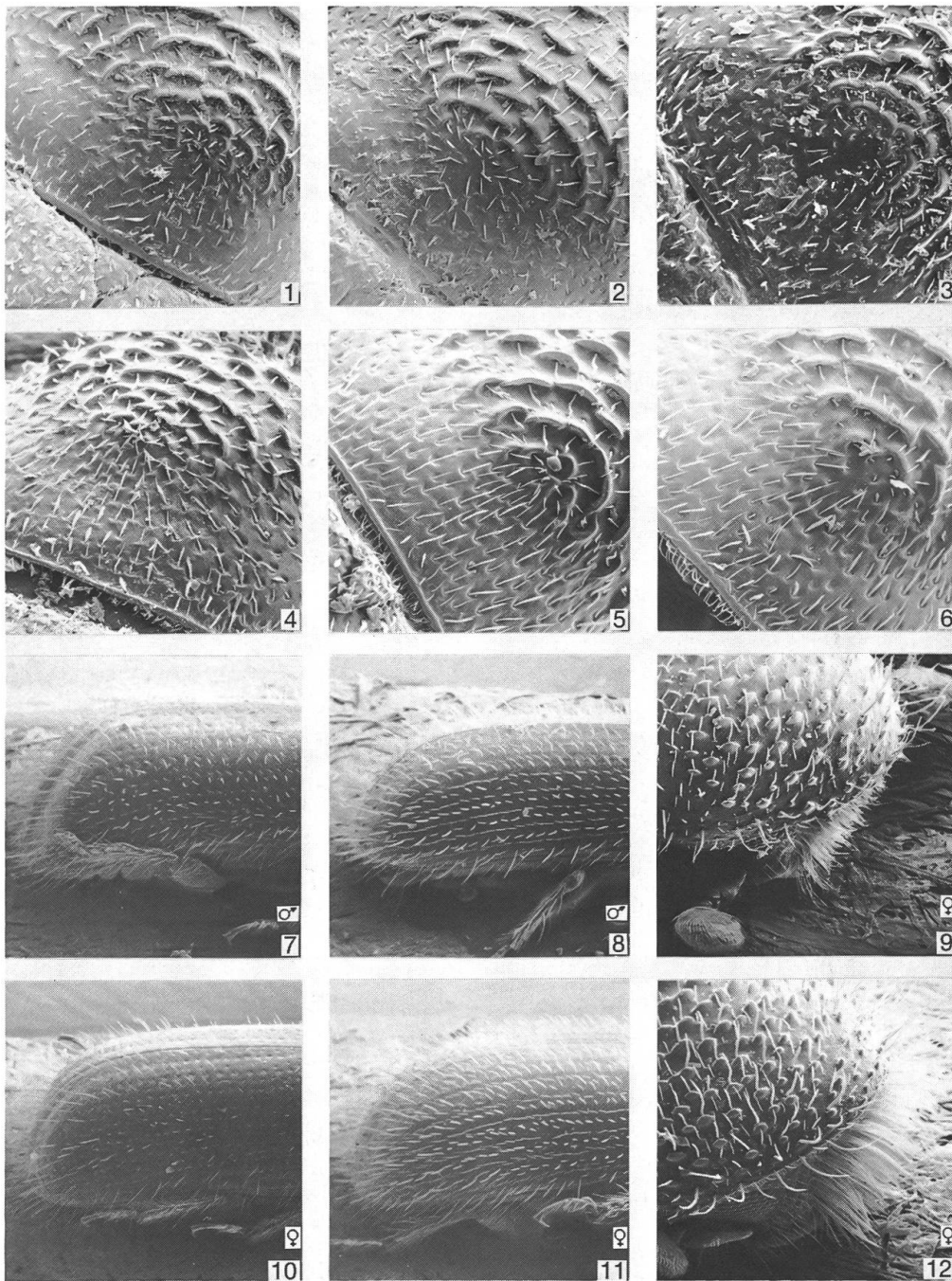
Taf.20: 1 *Ernopus tiliae* (Panz.); 2,5 *Ernopicus caucasicus* (Lind.); 3,6 *E. fagi* (F.); 4 *Cryphalus intermedius* Ferr.; 7 *C. piceae* (Ratzb.); 8,9 *Xylocleptes bispinus* (Duftschm.) ♂, ♀.

Orig. M. Knízek



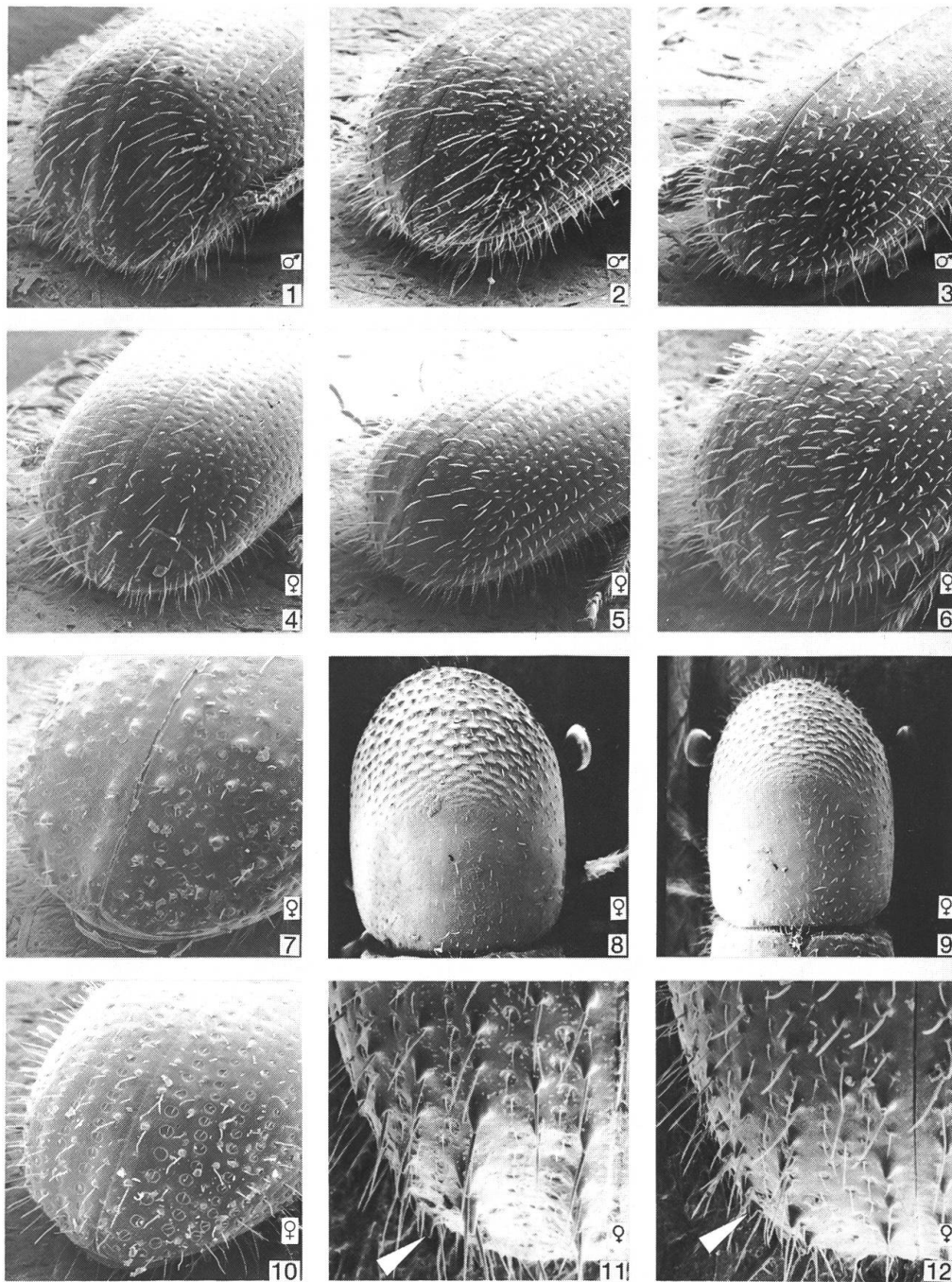
Taf.21: 1 *Trypophloeus aperatus asperatus* (Gyll.); 2 *T. asperatus spiculatus* Egg.; 3 *T. asperatus grothi* Hag.; 4 *T. rybinskii rybinskii* Reitt.; 5,7 *T. bispinulus* Egg.; 6 *T. granulatus* (Ratzb.); 8 *T. tremulae* Stark.

Orig. M. Knízek



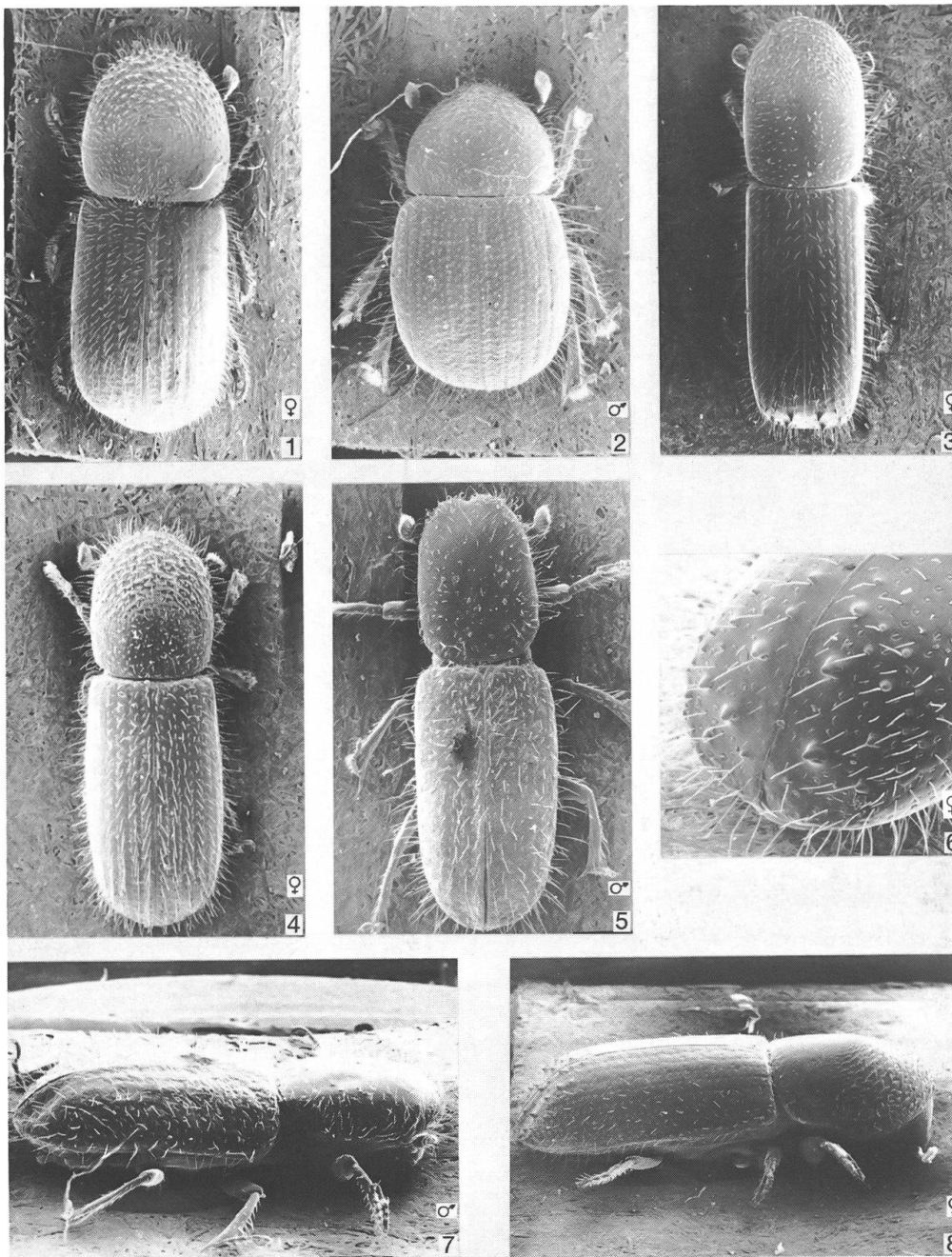
Taf.22: 1 *Trypophloeus asperatus asperatus* (Gyll.); 2 *T. asperatus spiculatus* Egg.; 3 *T. asperatus grothi* Hag.; 4 *T. rybinskii rybinskii* Reitt.; 5 *T. bispinulus* Egg.; 6 *T. granulatus* (Ratzb.); 7,9,10 *Taphrorychus bicolor* (Hbst.) ♂,♀; 8,11 *Taphrocoetes hirtellus* (Eichh.) ♂,♀; 12 *Taphrorychus villifrons* (Duf.) ♀.

Orig. M. Knízek



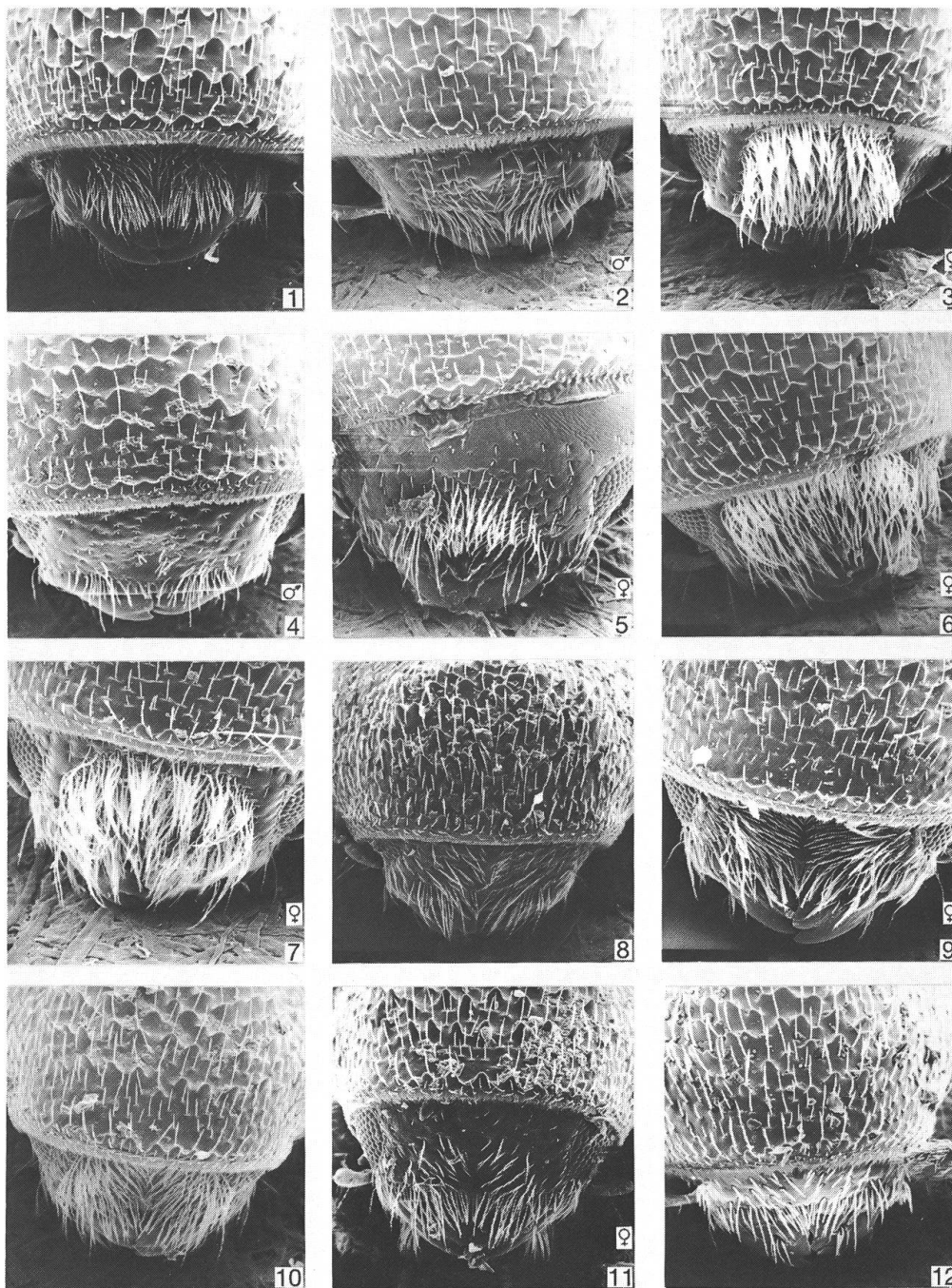
Taf.23: 1,4 *Taphrorychus bicolor* (Hbst.) ♂,♀; 2,5 *T. villifrons* (Duf.) ♂,♀; 3,6 *Taphrocoetes hirtellus* (Eichh.) ♂,♀; 7 *Xyleborus pfeilii* (Ratzb.) ♀; 8,11 *X. alni* Nijj. ♀; 9,12 *X. saxesenii* (Ratzb.) ♀; 10 *X. dryographus* (Ratzb.) ♀.

Orig. M. Knízek



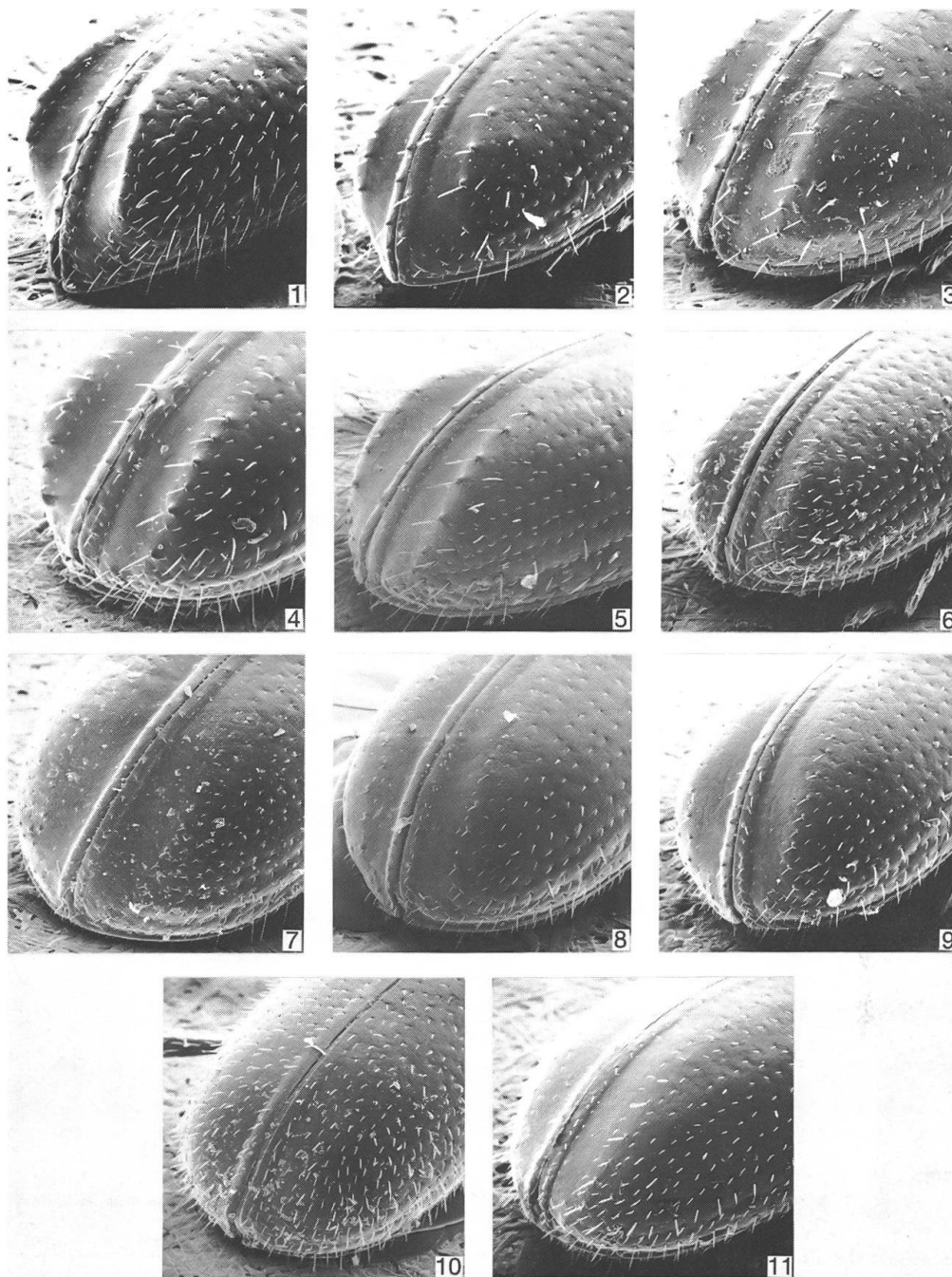
Taf.24: 1,2 *Xyleborus dispar* (F.) ♂,♀; 3,6 *X. monographus* (F.) ♀; 4,5,7 *X. cryptographus* (Ratzb.) ♂,♀; 8 *X. pfeilii* (Ratzb.) ♀.

Orig. M. Knízek



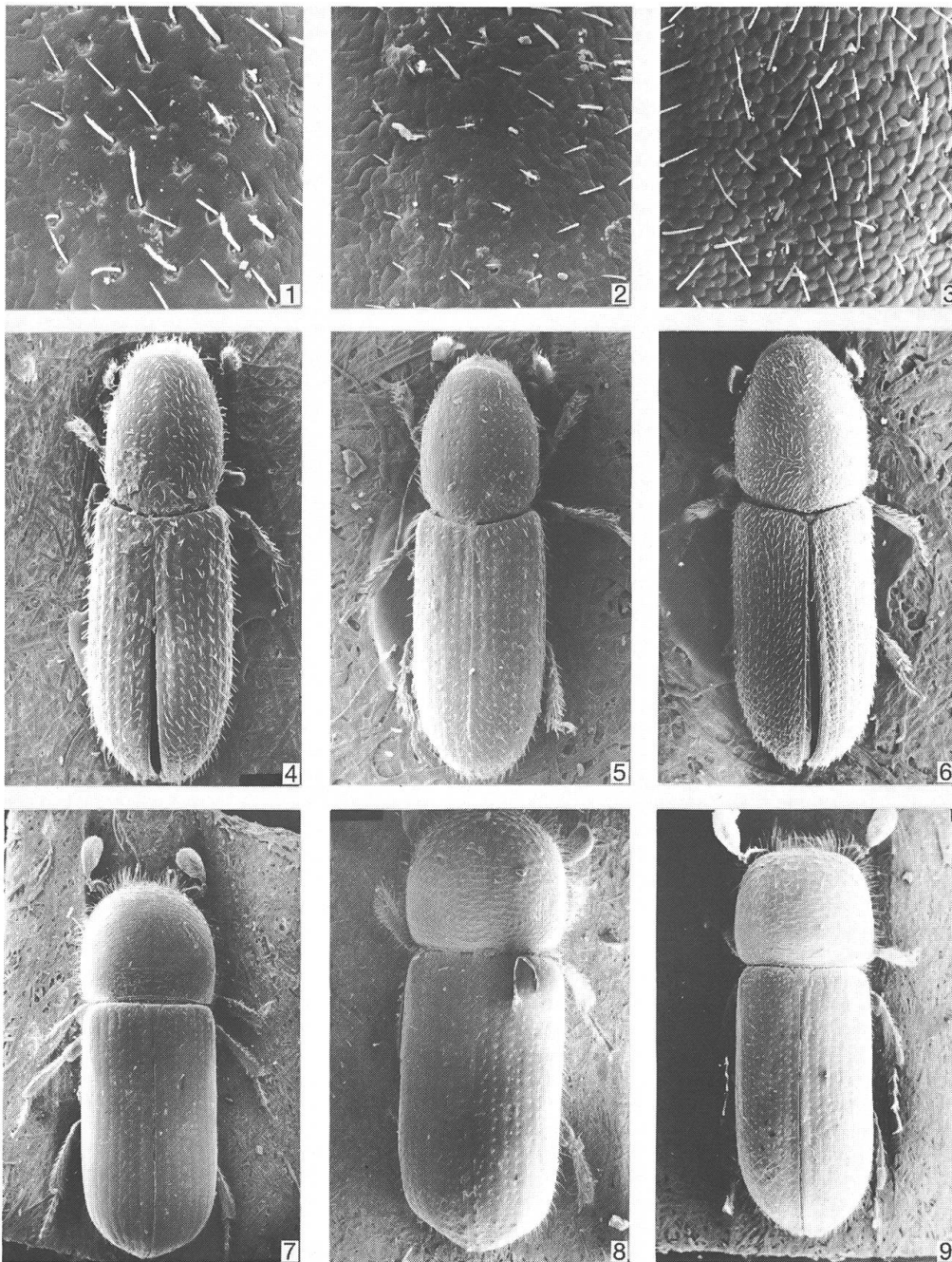
Taf.25: 1 *Pityophthorus exsculptus* (Ratzb.); 2,3 *P. pityographus pityographus* (Ratzb.) ♂,♀; 4,5 *P. micrographus* (L.) ♂,♀; 6 *P. lichtensteinii* (Ratzb.) ♀; 7 *P. knoteki* Reitt. ♀; 8 *P. pubescens* (Marsh.) ♀; 9 *P. glabratus* Eichh. ♀; 10 *P. balcanicus* Pfeff. ♀; 11 *P. buyssoni angeri* Pfeff. ♀; 12 *P. henscheli* Seitn. ♀.

Orig. M. Knízek



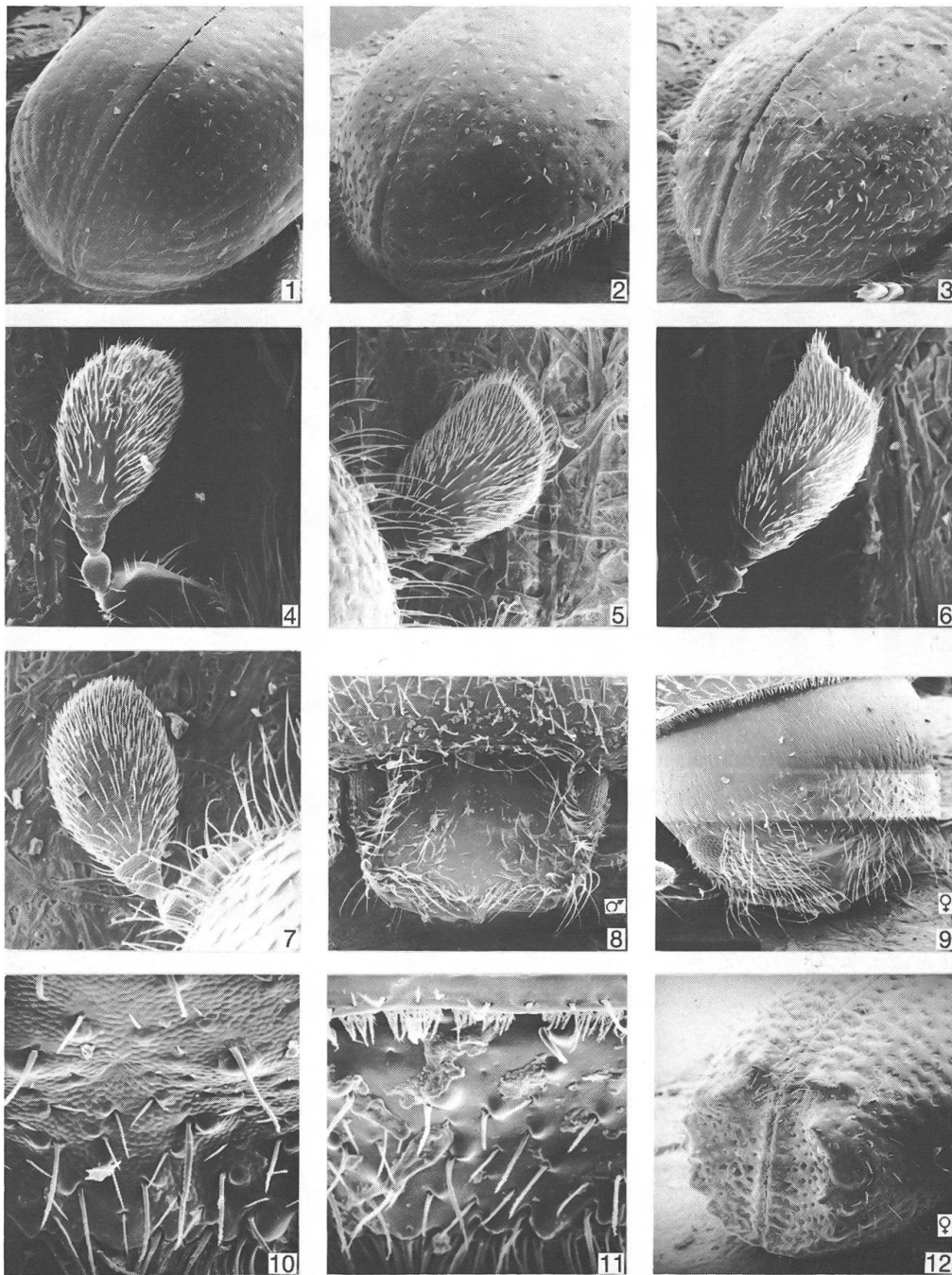
Taf.26: 1 *Pityophthorus exsculptus* (Ratzb.); 2 *P. pityographus pityographus* (Ratzb.); 3 *P. micrographus* (L.); 4 *P. lichtensteinii* (Ratzb.); 5 *P. knoteki* Reitt.; 6 *P. pubescens* (Marsh.); 7 *P. glabratus* Eichh.; 8 *P. balcanicus* Pfeff.; 9 *P. buyssoni angeri* Pfeff.; 10 *P. carniolicus* Wichm.; 11 *P. henscheli* Seitn.

Orig. M. Knízek



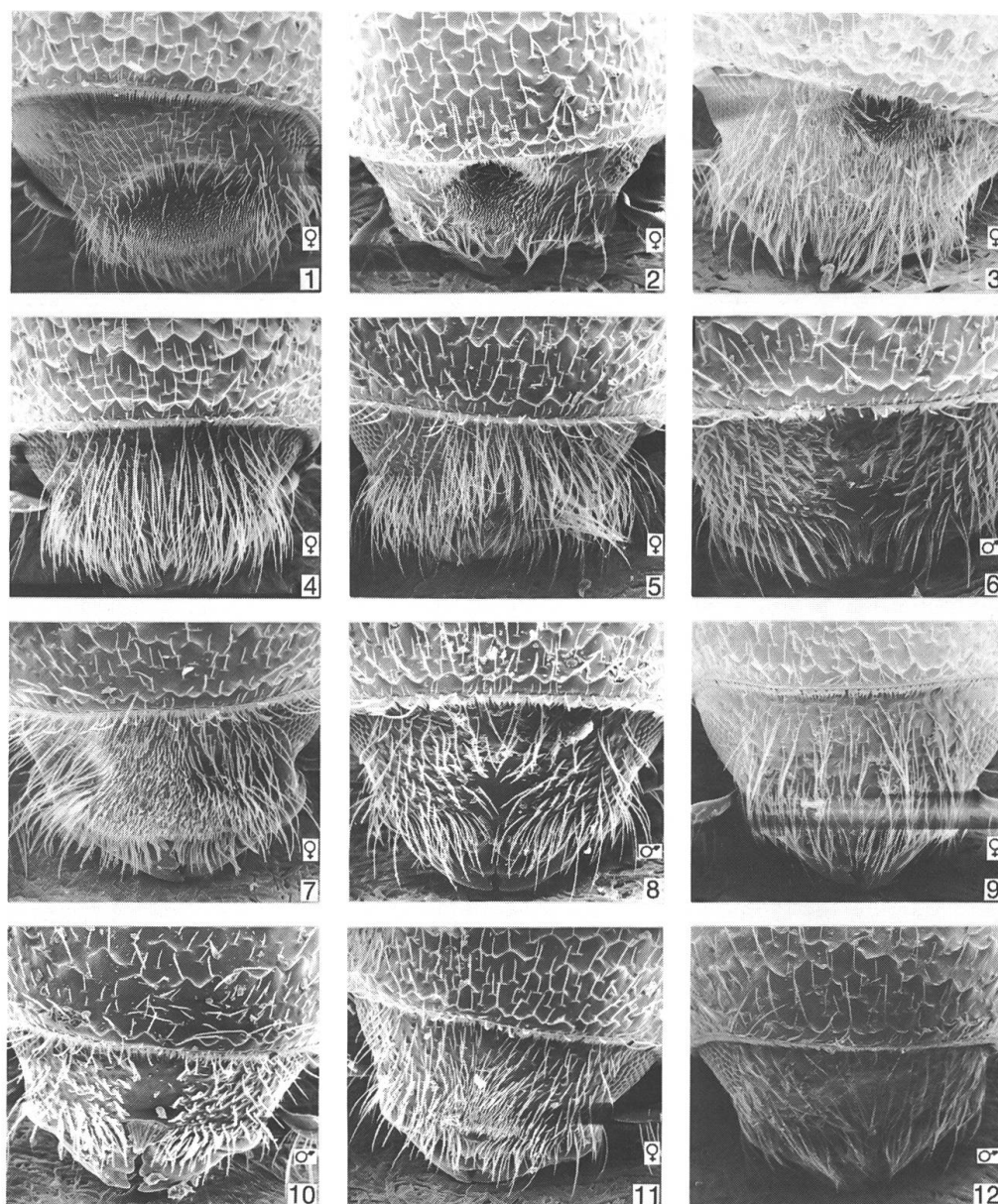
Taf.27: 1,4 *Crypturgus hispidulus* Thoms.; 2,5 *C. pusillus* (Gyll.); 3,6 *C. cinereus* (Hbst.); 7 *Xyloterus lineatus* (Ol.); 8 *X. signatus* (F.); 9 *X. domesticus* (L.).

Orig. M. Knízek



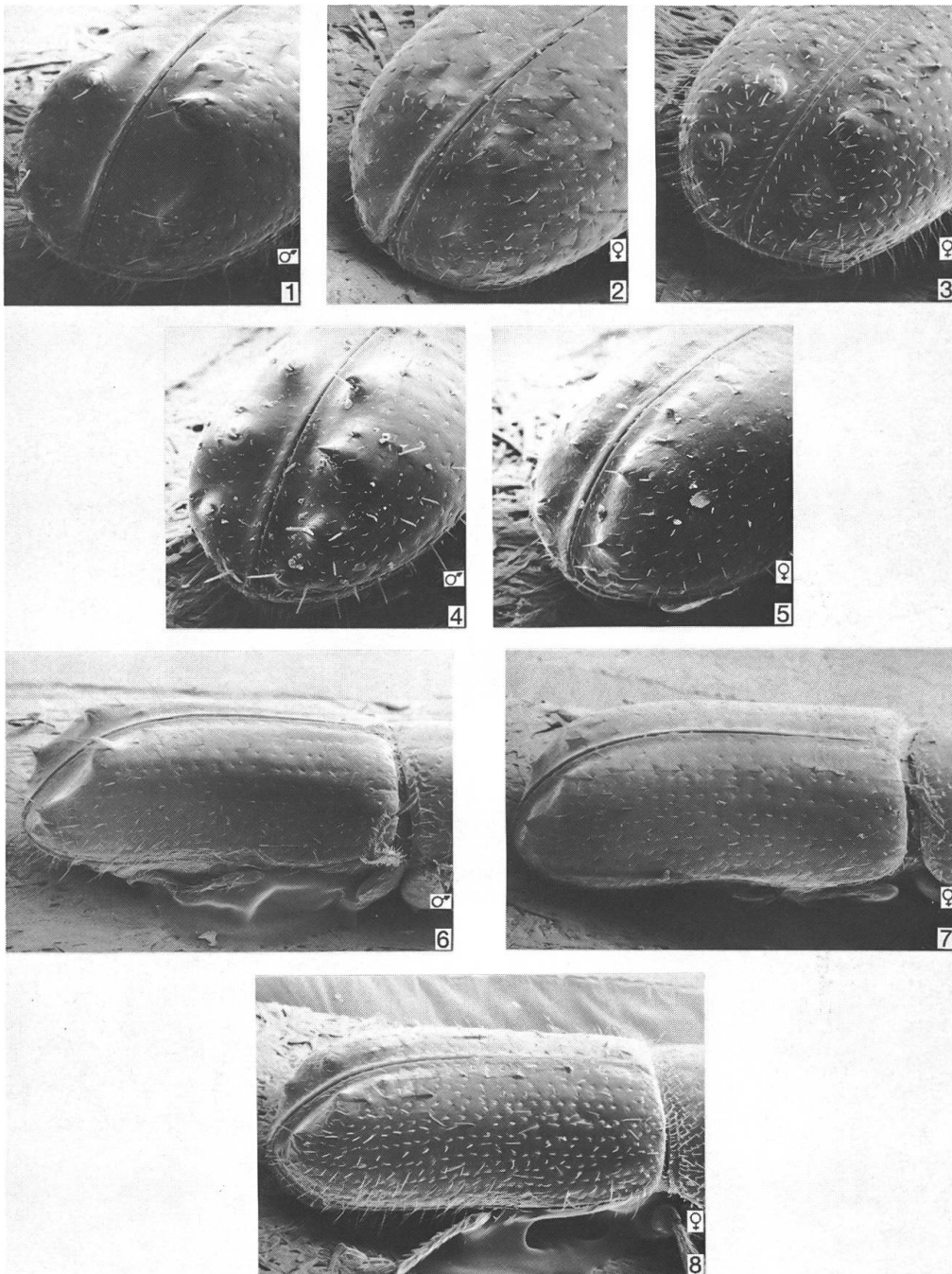
Taf.28: 1,4 *Xyloterus lineatus* (Ol.); 2,5 *X. signatus* (F.); 3,6 *X. domesticus* (L.); 7-9 *X. laeve* Egg. ♂, ♀; 10 *Orthotomicus laricis* (F.); 11,12 *O. proximus* (Eichh.) ♀.

Orig. M. Knízek



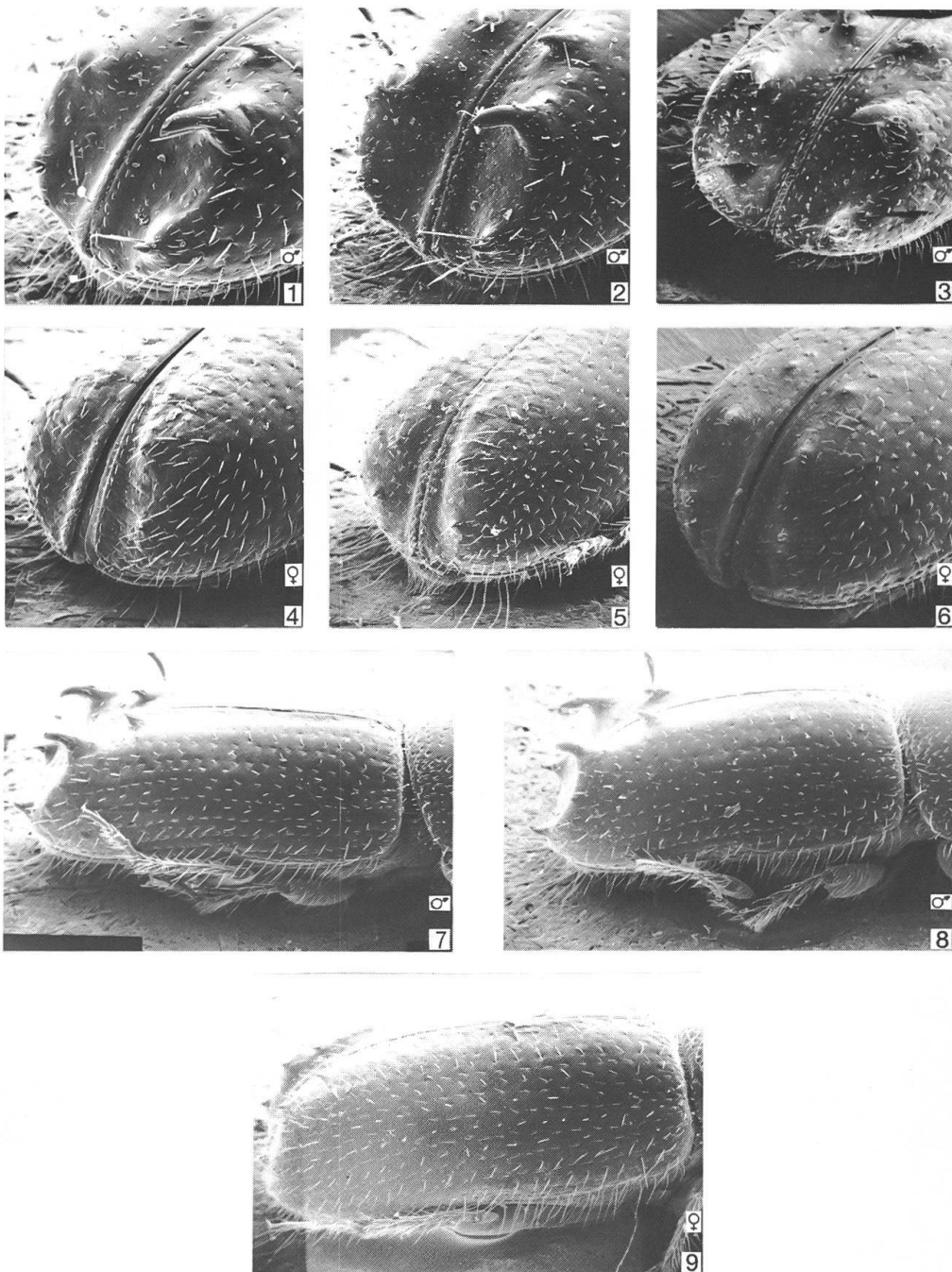
Taf.29: 1 *Pityogenes chalcographus* (L.) ♀; 2 *P. trepanatus* (Nörtl.) ♀; 3,6 *P. porifrons* Egg. ♂, ♀; 4 *P. conjunctus* Reitt. ♀; 5,8 *P. bistridentatus* (Eichh.) ♀, ♂; 7,10 *P. calcaratus* (Eichh.) ♀, ♂; 9,12 *P. irkutensis irkutensis* Egg. ♂, ♀; 11 *P. bidentatus* (Hbst.) ♀.

Orig. M. Knízek

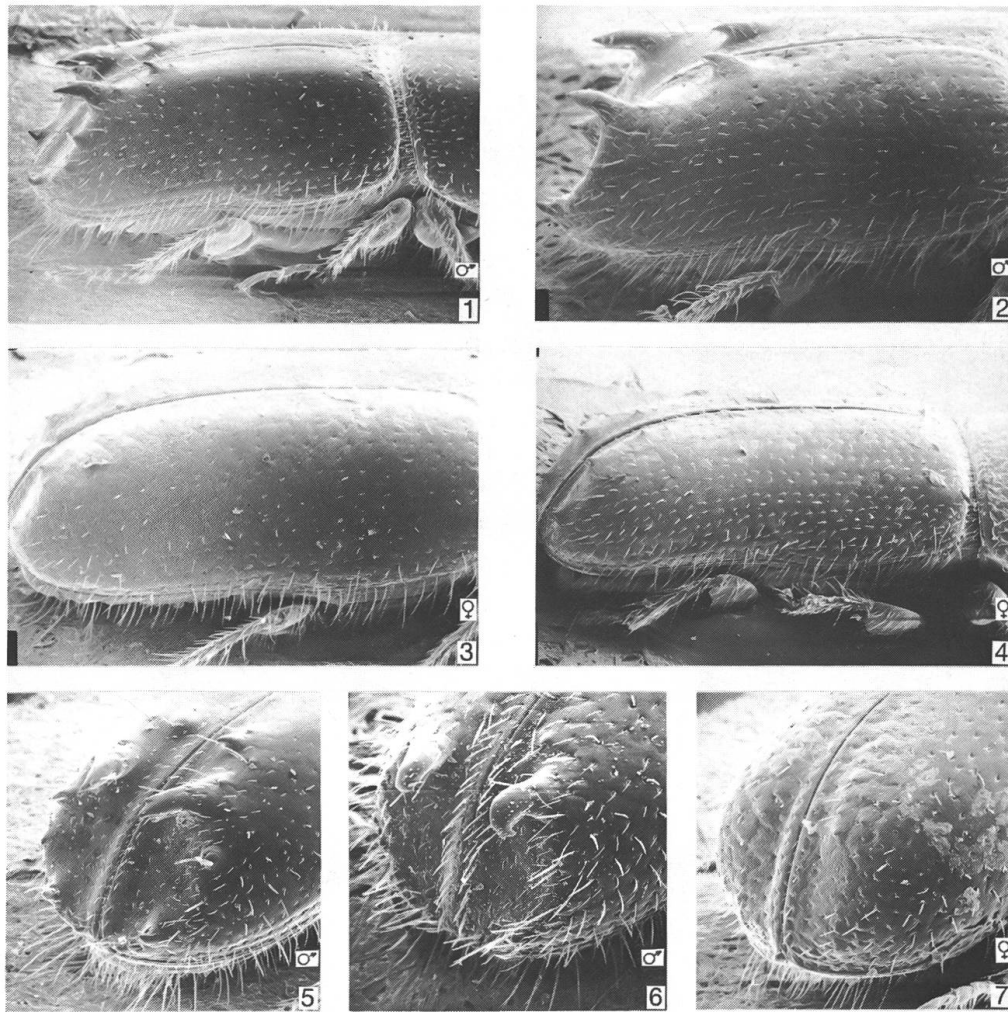


Taf.30: 1,2,6,7 *Pityogenes irkutensis irkutensis* Egg. ♂,♀; 3,8 *P. trepanatus* (Nördl.) ♀;
4,5 *P. chalcographus* (L.) ♂,♀.

Orig. M. Knízek

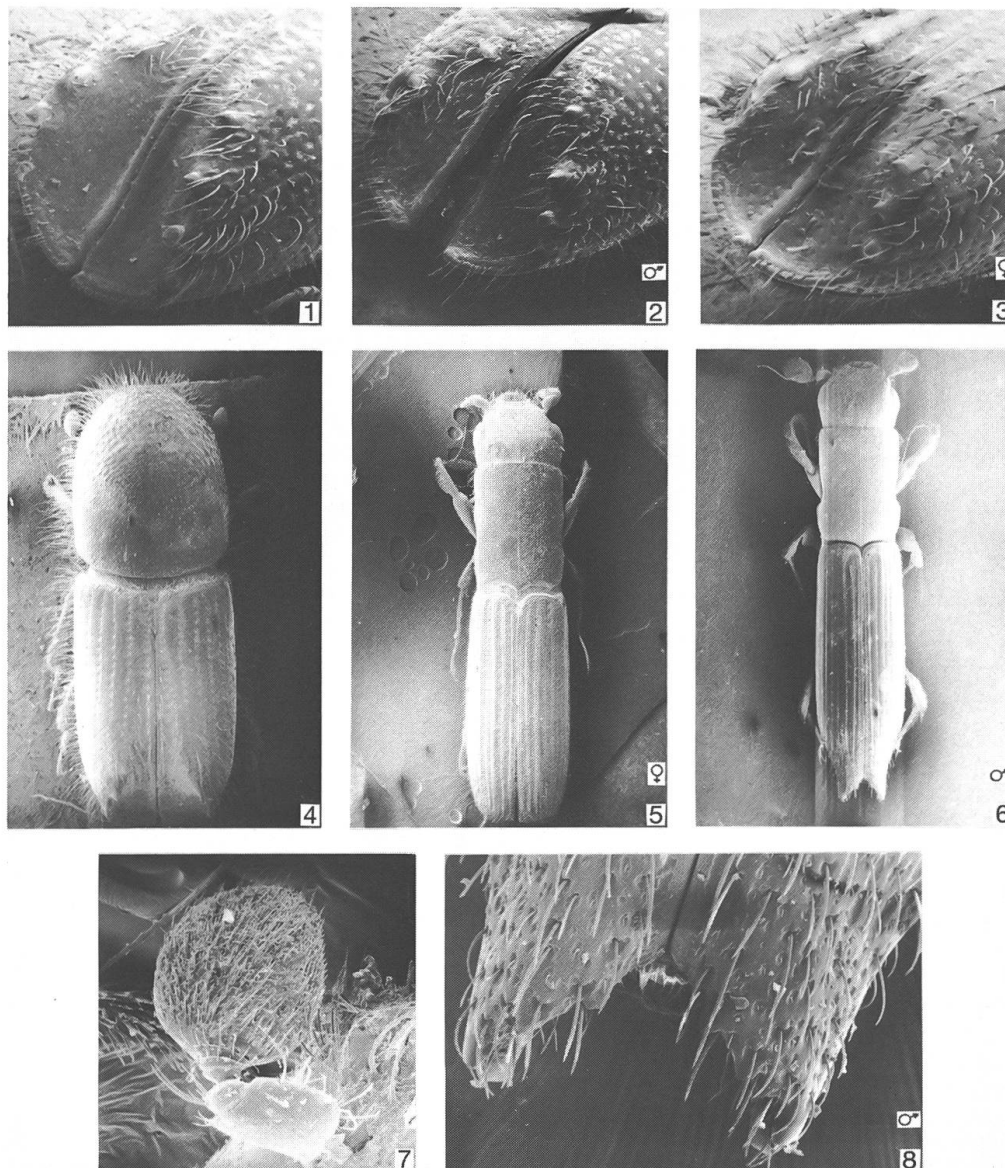


Taf.31: 1,4,7 *Pityogenes conjunctus* Reitt. ♂,♀; 2,5,8,9 *P. bistridentatus* (Eichh.) ♂,♀;
 3,6 *P. porifrons* Egg. ♂,♀.
 Orig. M. Knízek



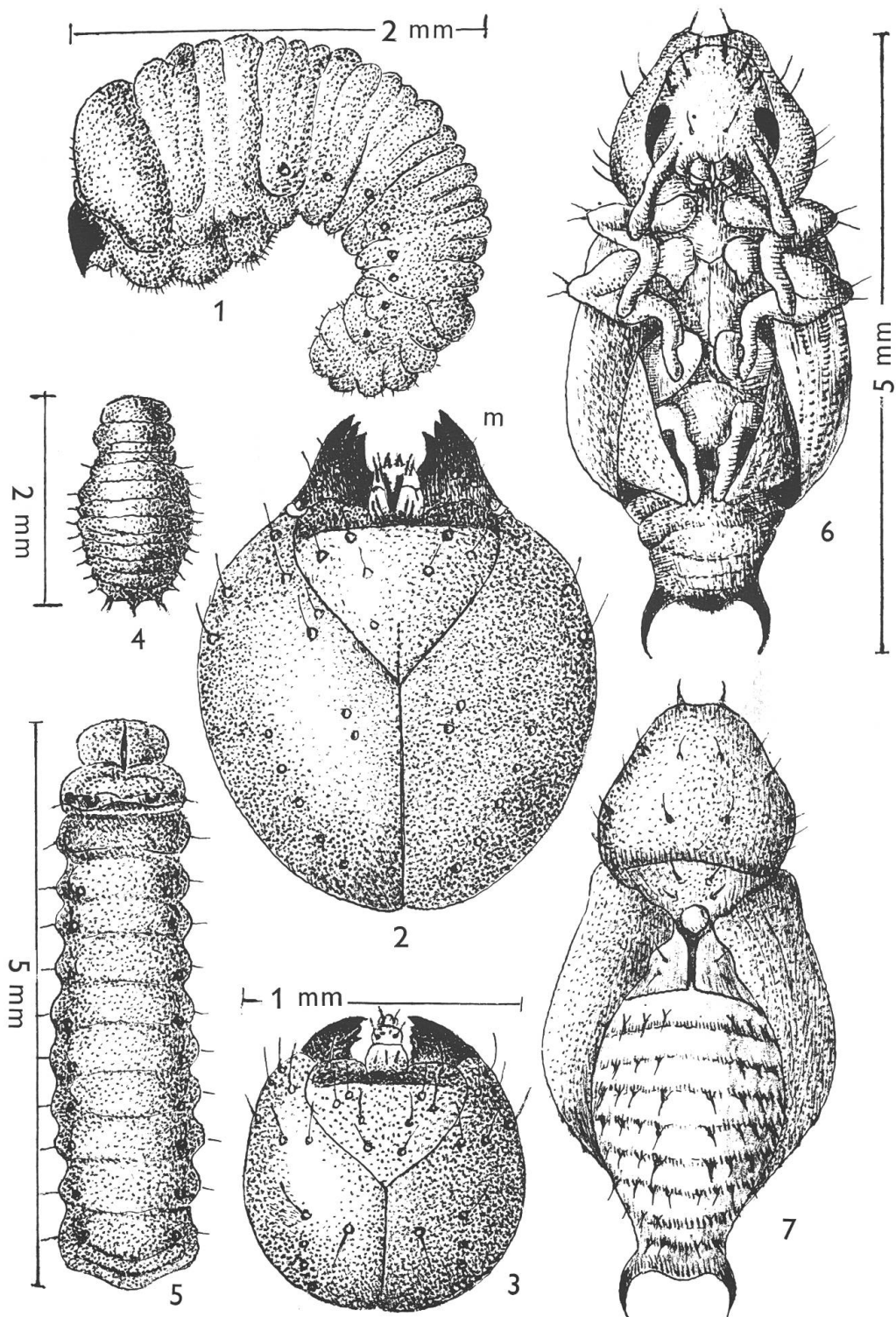
Taf.32: 1,3,5 *Pityogenes calcaratus* (Eichh.) ♂,♀; 2,4 *P. porifrons* Egg. ♂,♀; 6,7 *P. bidentatus* (Hbst.) ♂,♀.

Orig. M. Knízek



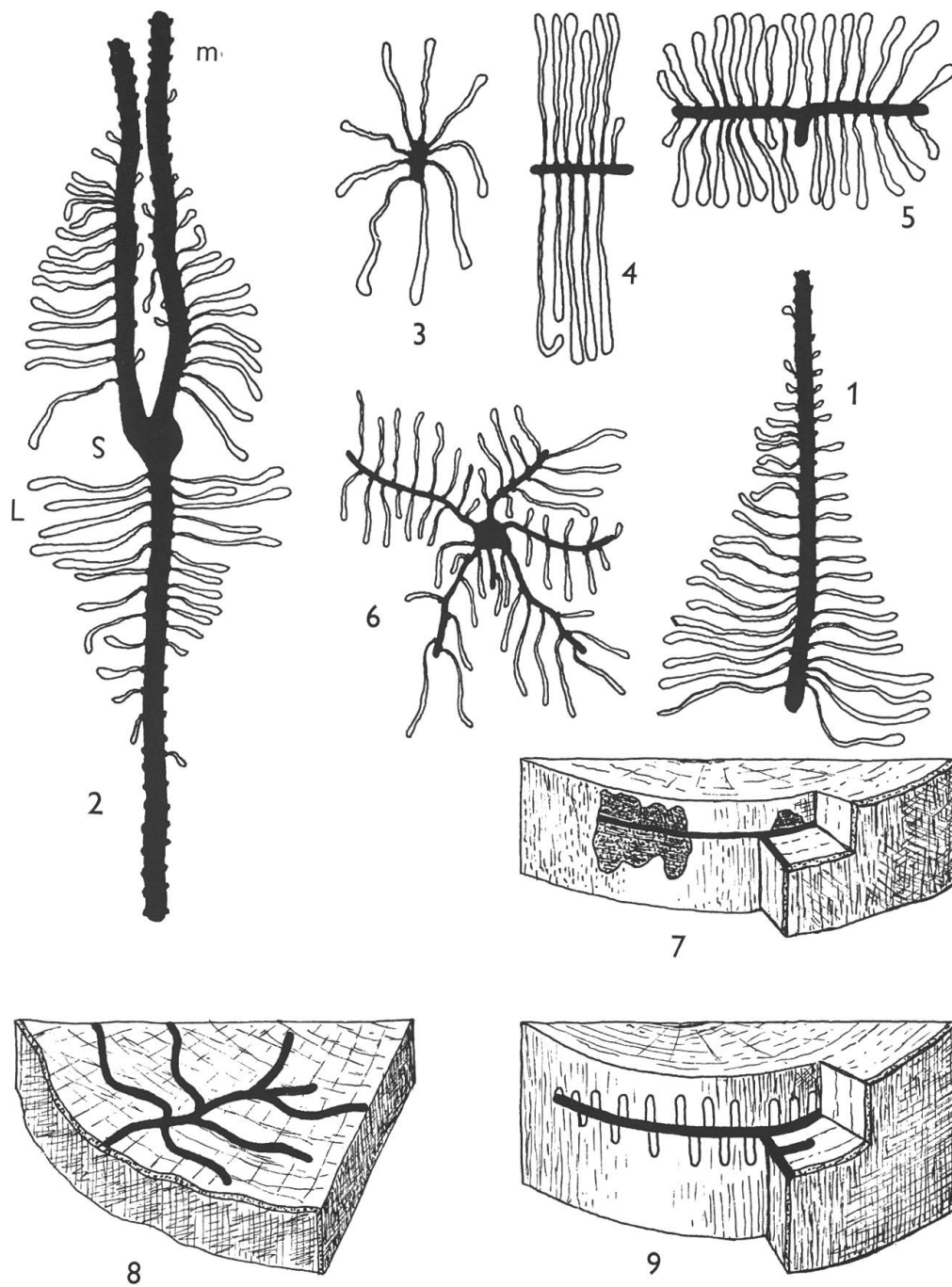
Taf.33: 1,4 *Ips typographus* (L.); 2,3 *I. duplicatus* (Sahlb.) ♂,♀; 5,7 *Platypus cylindrus* (F.); 6,8 *P. oxyurus* Duf.

Orig. M. Knízek



Taf.34: 1 Larve *Carphoborus* sp.; 2,3 Kopf der Larve (*Xyloterus* sp., *Ips* sp.); 4,5 Larve *Platypus cylindrus* (F.); 6,7 Puppe *Hylurgops* sp.

Abb. 1,6,7 nach Spessivtsev, 1928; 2,3 nach Lekander, 1968; 4,5 nach Sölner, 1930.



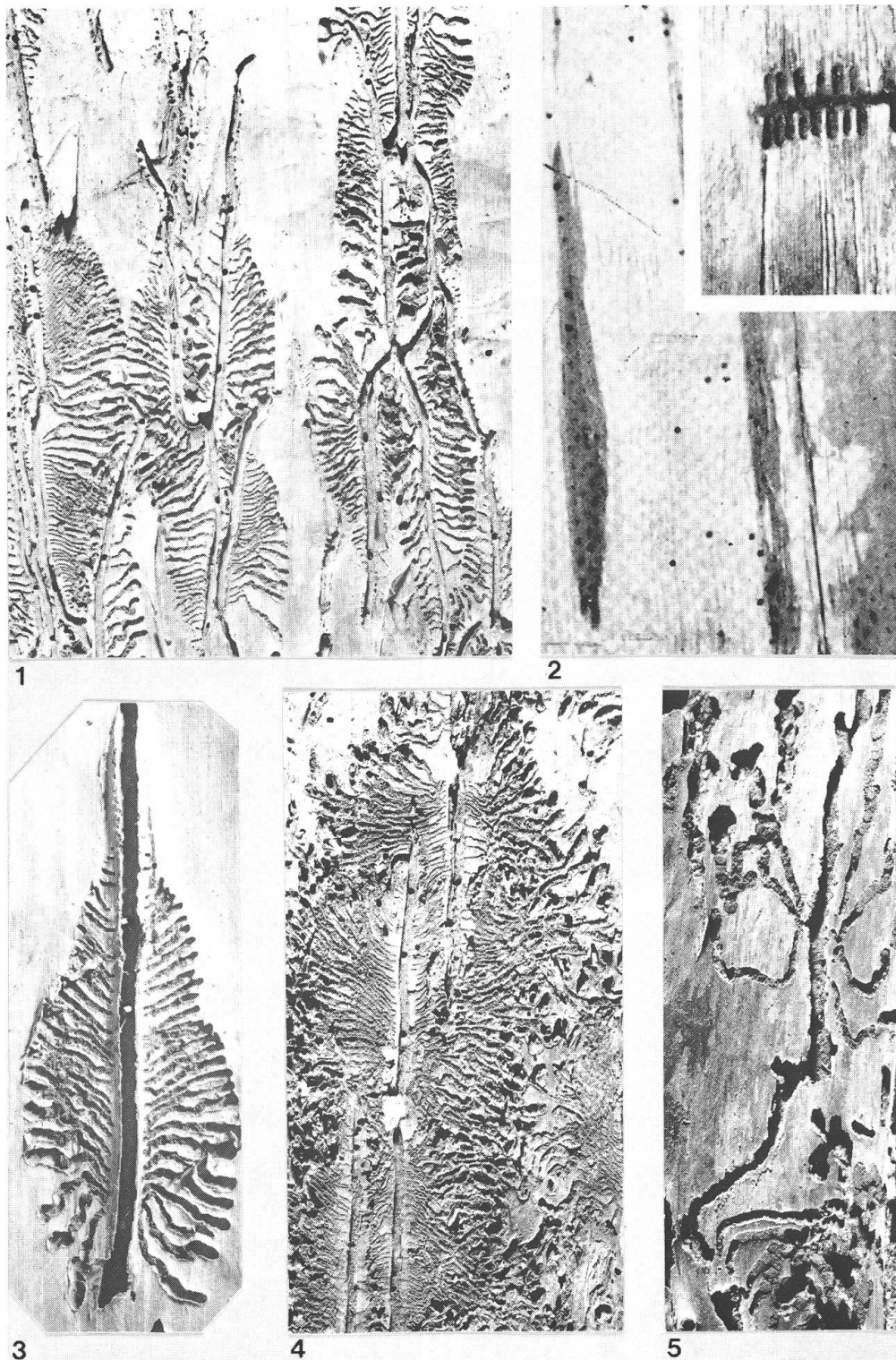
Taf.35: 1 Einarmiger Längsgang; 2 Dreiarmige Längsgänge; 3 Platzgang; 4 Einarmiger Quergang; 5 Zweiarmiger Quergänge; 6 Sterngang; 7 Holzplatzgang; 8 Horizontale Gabelgänge; 9 Leiterränge.

Abb. 1,2 nach Pfeffer, 1989; 3–9 nach Nüsslin, 1913



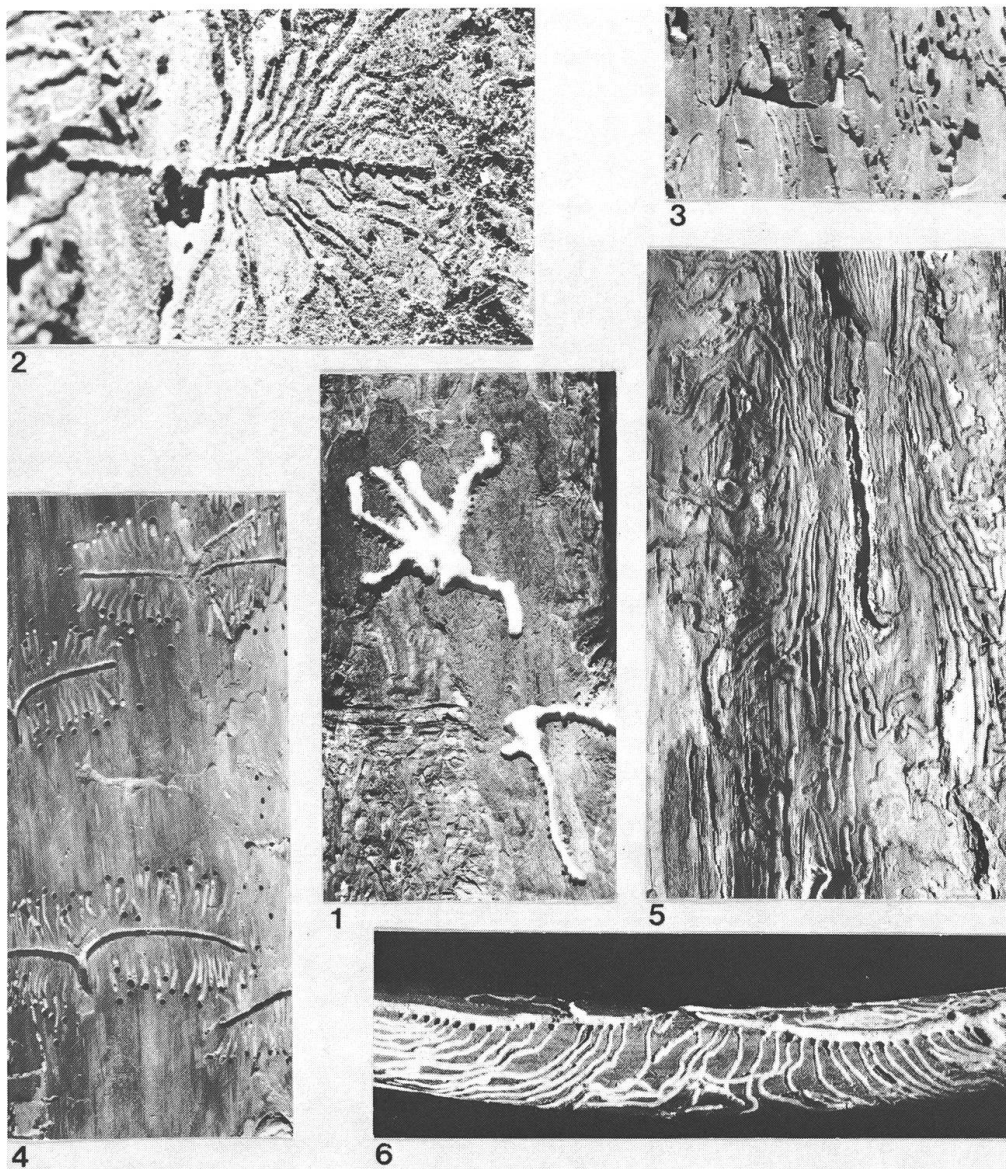
Taf.36: 1 *Pityophthorus exsculptus* (Ratzb.); 2 *P. pityographus pityographus* (Ratzb.); 3 *Hylurgops palliatus* (Gyll.), Reifungsfrass; 4 *Pityogenes chalcographus* (L.); 5 *Phthorophloeus spinulosus* Rey; 6 *Hylurgops palliatus* (Gyll.).

Photo V. Zumr. Nach Pfeffer, 1989



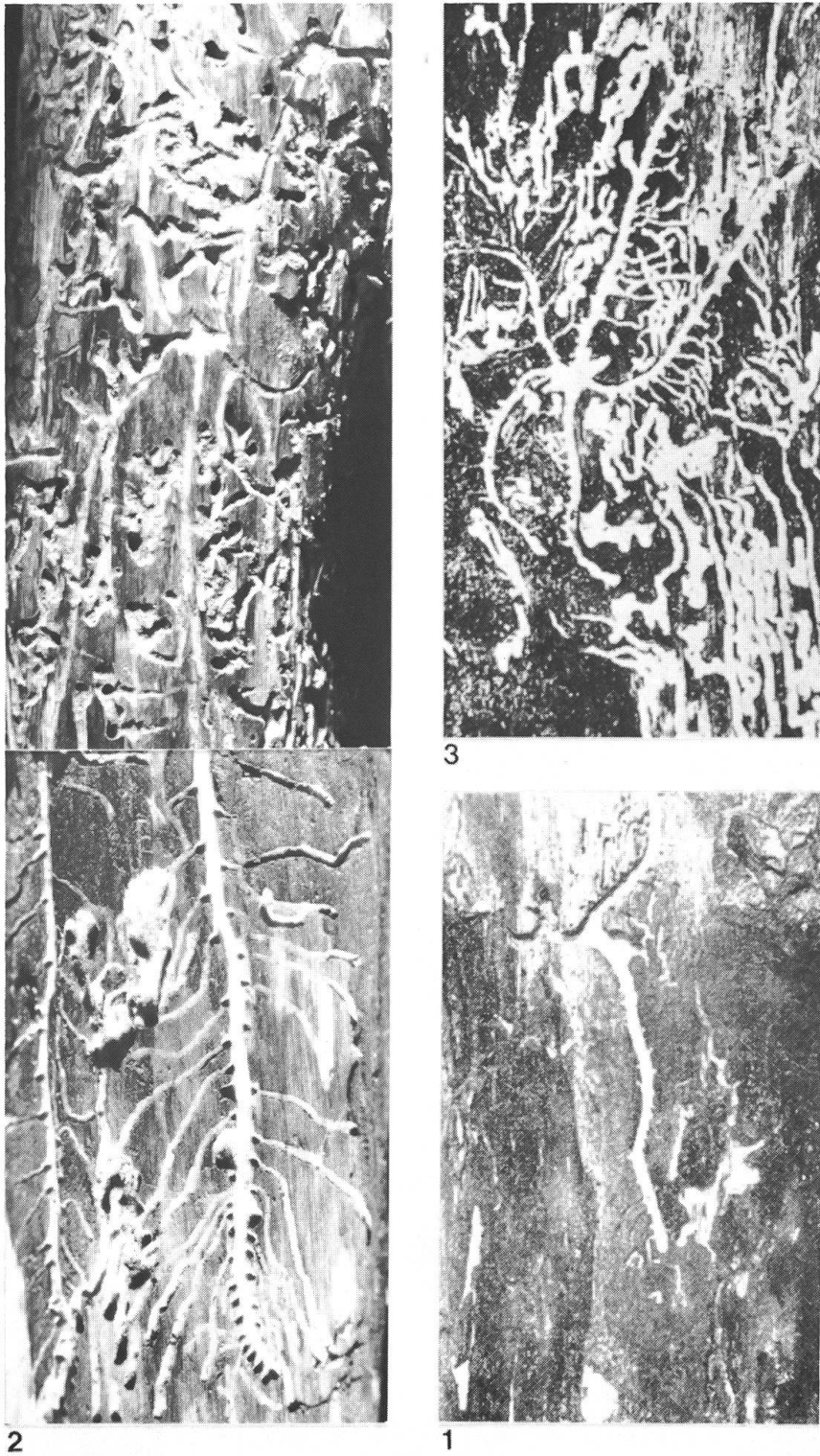
Taf.37: 1 *Ips amitinus* (Eichh.); 2 *Xyloterus lineatus* (Ol.); 3,4 *Ips typographus* (L.); 5 *Dryocoetes autographus* (Ratzb.).

Photo V. Zumr. Nach Pfeffer, 1989



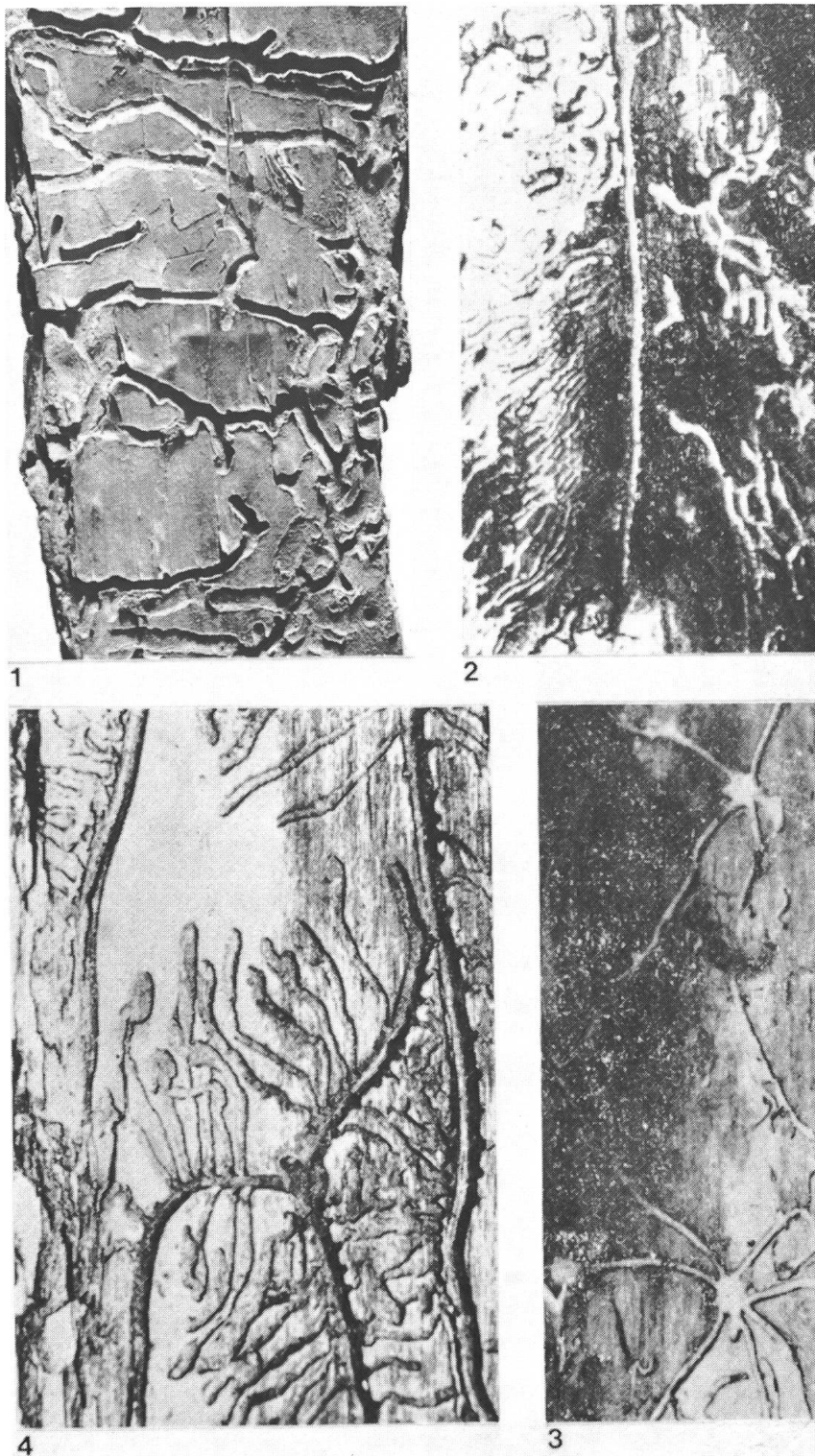
Taf.38: 1 *Polygraphus punctifrons* Thomps.; 2 *Xylechinus pilosus* (Ratzb.); 3 *Cryphalus abietis* (Ratzb.); 4 *Tomicus minor* (Hart.); 5 *T. piniperda* (L.); 6 *Pityogenes bidentatus* (Hbst.).

Photo V. Zumr. Nach Pfeffer, 1989



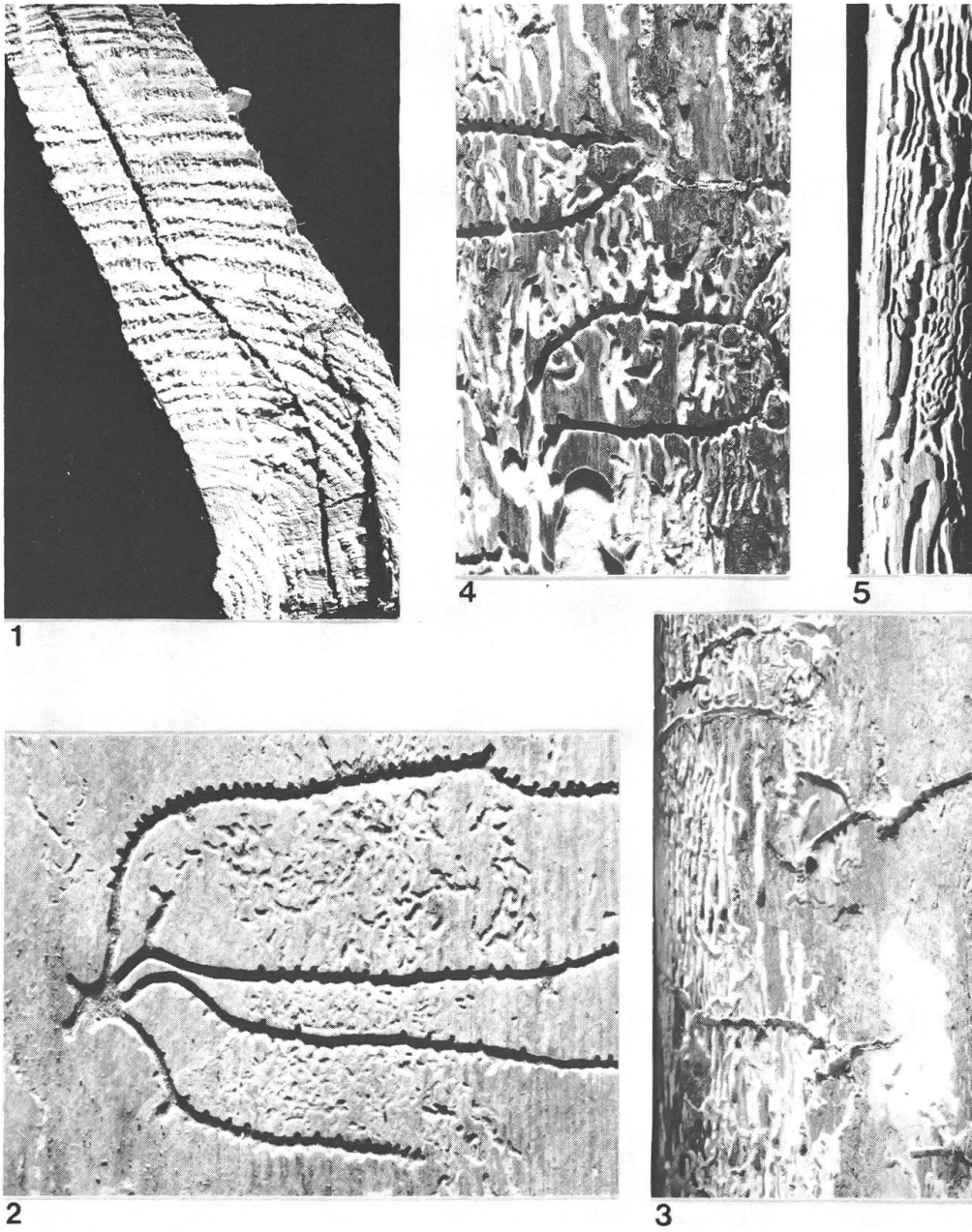
Taf.39: 1 *Orthotomicus suturalis* (Gyll.); 2 *Ips acuminatus* (Gyll.); 3 *Pityogenes quadridens* (Hart.).

Photo V. Zumr. Nach Pfeffer, 1989

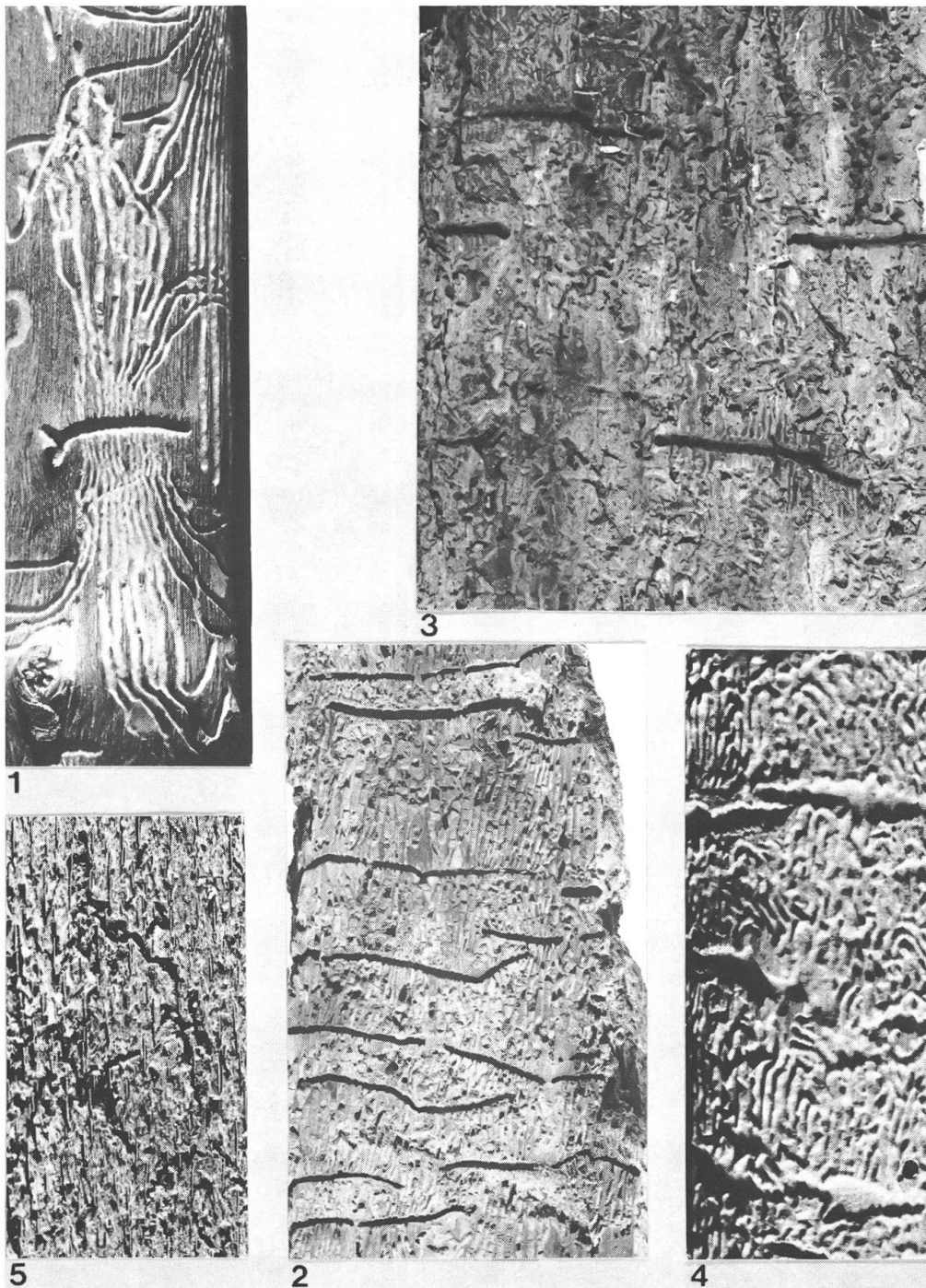


Taf.40: 1 *Orthotomicus longicollis* (Gyll.); 2 *O. proximus* (Eichh.); 3 *Pityogenes irkutensis irkutensis* Egg.; 4 *Ips cembrae* (Heer).

Photo V. Zumr. Nach Pfeffer, 1989

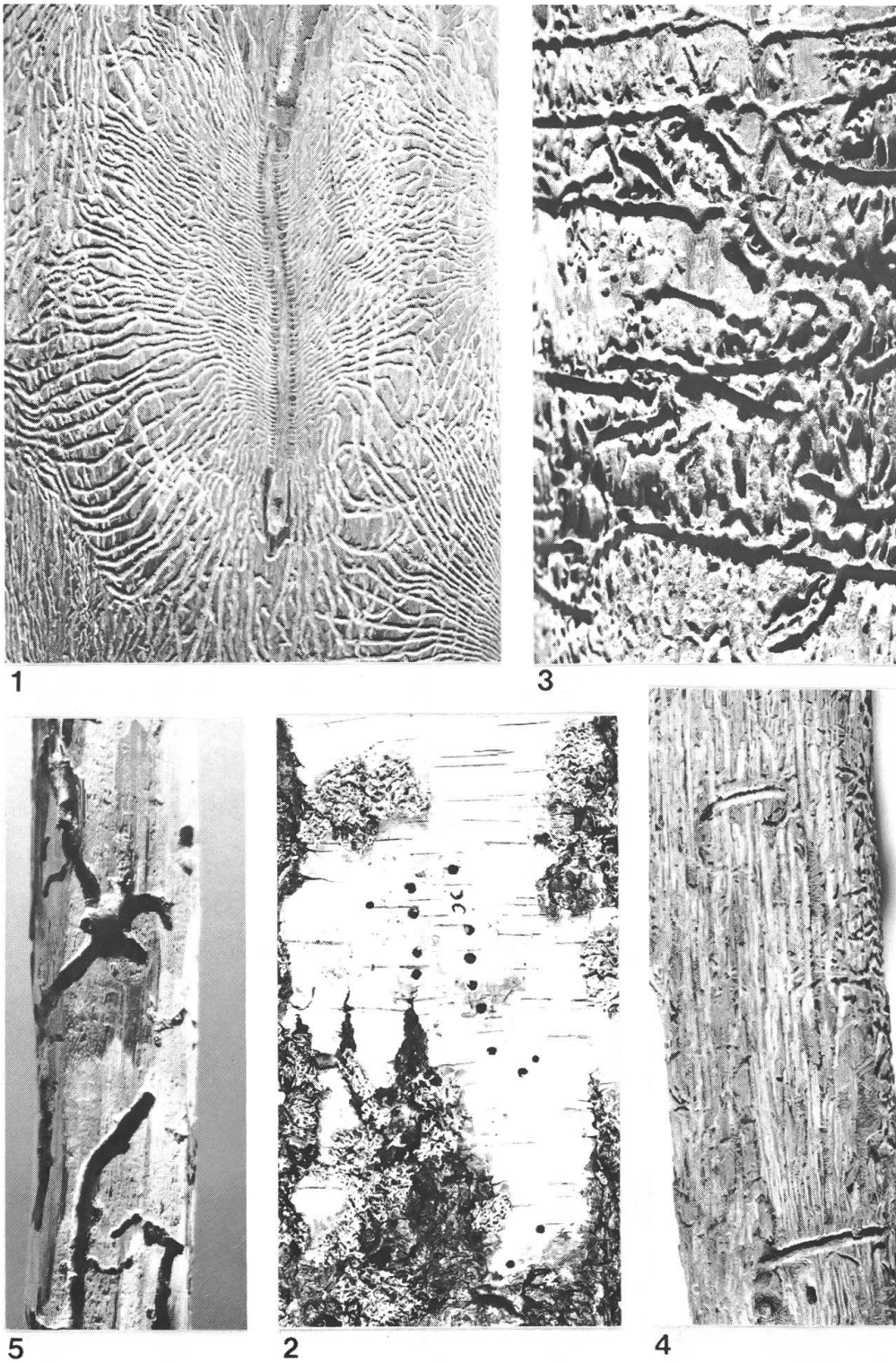


Taf.41: 1 *Platypus oxyurus* Duf.; 2 *Pityokteines spinidens* (Reitt.); 3 *P. vorontzowi* (Jak.);
 4 *P. curvidens* (Panz.); 5 *Phloeosinus aubei* (Perr.).
 Photo V. Zumr. Nach Pfeffer, 1989



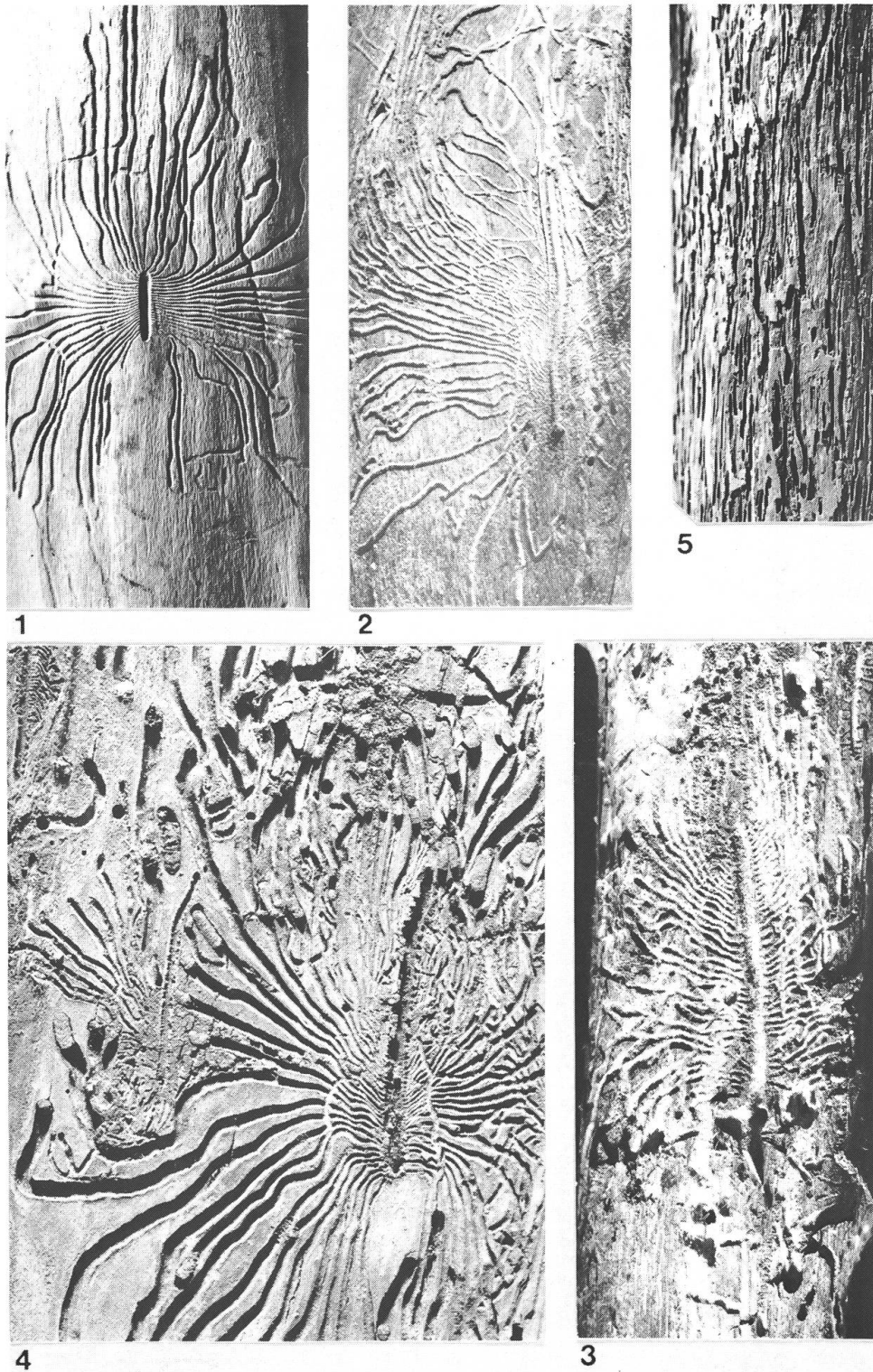
Taf.42: 1 *Hylesinus oleiperda* (F.); 2 *Leperisinus fraxini* (Panz.); 3 *Hylesinus crenatus* (F.); 4 *Hypoborus ficus* Er.; 5 *Taphrorychus bicolor* (Hbst.).

Photo V. Zumr. Nach Pfeffer, 1989



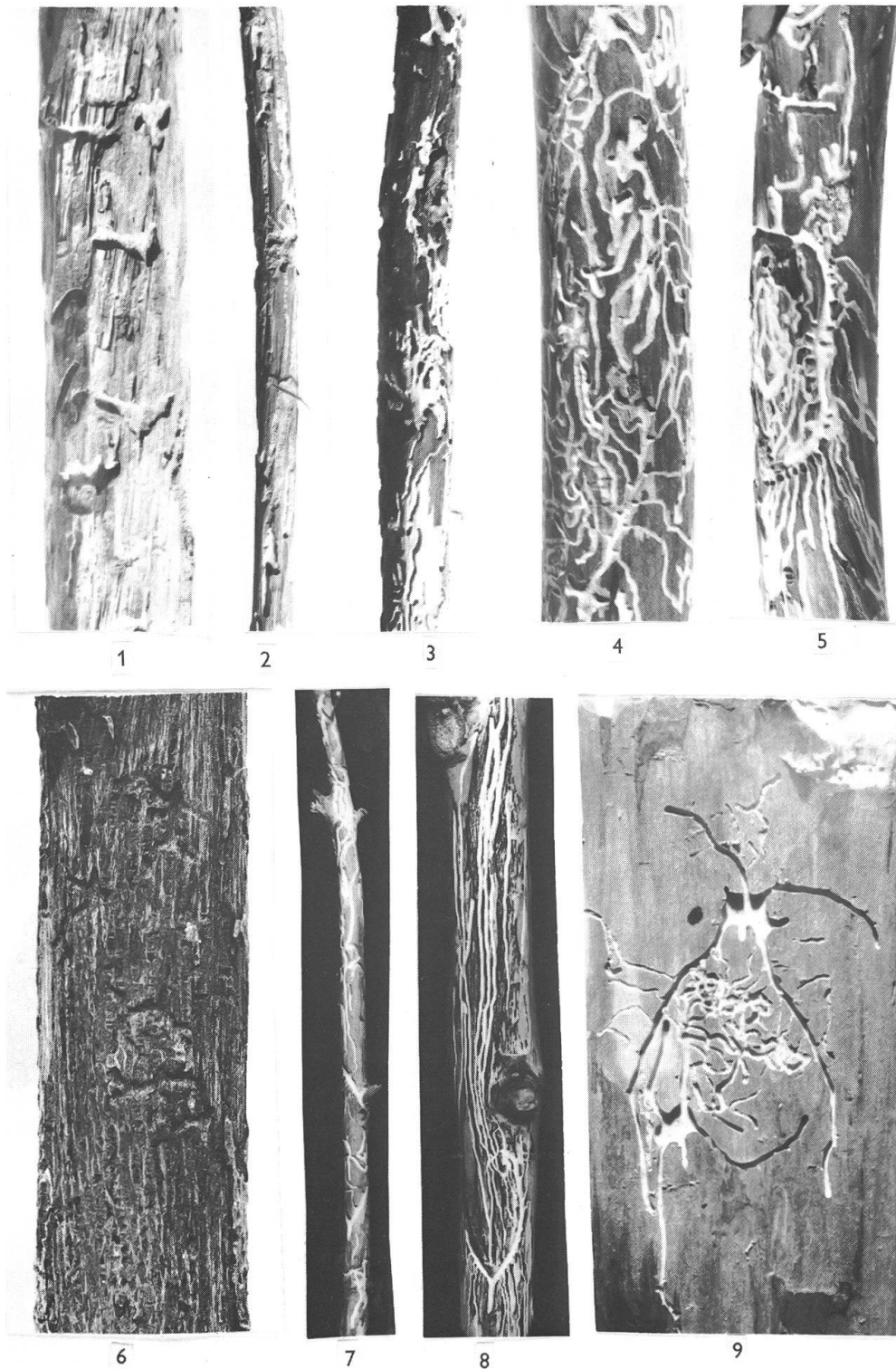
Taf.43: 1,2 *Scolytus ratzeburgi* Jans.; 3 *Kissophagus hederæ* (Schm.); 4 *Scolytus intricatus* (Ratzb.); 5 *Lymantria coryli* (Perr.).

Photo V. Zumr. Nach Pfeffer, 1989



Taf.44: 1 *Scolytus koenigi* Chev; 2 *S. multistriatus multistriatus* (Marsh.); 3 *S. laevis* Chap.; 4 *S. scolytus* (F.); 5 *Dryocoetes alni* (Georg.).

Photo V. Zumr. Nach Pfeffer, 1989



Taf.45: 1 *Liparthrum arnoldi* Sem.; 2 *L. mori* (Aubé); 3 *L. genistae genistae* (Aubé); 4 *Pityogenes bistridentatus* (Eichh.); 5 *P. trepanatus* (Nördl.); 6 *Saliciphilus machnovskyi* (Sokan.); 7 *Phloeophthorus muricatus* Egg.; 8 *P. pubifrons pubifrons* Guill.; 9 *Carphoborus cholodkovskyi* Spess. (Abb. 1,3,6 stark vergrößert).

Orig. Photo V. Zumr