

Hrbilkovít (Diptera: Phoridae) Jizerských hor a Frýdlantska

**Phoridae (Diptera) of the Jizerské hory Mts and Frýdlant region
(northern Bohemia, Czech Republic)**

Dqjwuncx"OQEGM³⁺."Rcxgn"XQPk MC⁴⁺ ("Lk ¶"RTGKUNGT⁵⁺

¹⁾ Nv{fv n!w,,dipeofdi! fdi-!Fmj jop!oøc f f!576-!D[! !611!12! I sbefd!Lsømpwš<!
f. nbjm;c/npdfI A n v{fv n i l/d{

²⁾ Tfwsp ft lš! n v{fv n-!Nbtbsz l pwb!22-!D[! !571!12!Mjcf sfd!
f. nbjm;|qbwfm/wpojdl b A n v{fv n mc/d{

⁵⁺Xnpce um^a"8;4."E \ "ó"682"28"Nkdgtge"8-"g/o ckn< r t g k u n g t d n d B u g | p c o 0 e |

Abstract.Cnvq igvjgt":9"urkegu"qh"Rjqtfcg"*Fkrvgtc"+ygtg"hwqpf"kp"vjg"lkg|gtum²jq{ "Ovu"cpf"Ht fncpv"tgikqp"
kp"4224642290"Vjku"pw o dgt"o cmgu"wr"5:05 " "qh"cm"urkegu"qh"vjg"hc o kn{ "mpqy p"wr"vq"pqy"htq o "vjg"E|gej "Tgrwdnke"
*449"urkegu="+qt"9407 " "qh"cm"urkegu"gzegrv"vjg"i gpwu"*Megaselia*"*342"urkegu-"vjg"i gpwu"ku"pqv"vtcvgf" jgtg-0"Vyq"
urkegu"ygtg"tgeqtf"gf"kp"vjg"E|gej "Tgrwdnke"hq"vjg"Łtu"vk o g<"*Borophaga irregularis* Yqgf."3;34"cpf"*Triphleba
disparinervis*"Uej o kv|."3;69"cpf"cpqvjgt"ukz"urkegu"ctg"pgy"hq" Dqj g o k c " *Aenigmatias franzi*"Uej o kv|."3;72."
Chaetopleurophora spinosior"Uej o kv|."3;5:." *Gymnophora prescherweberae* Flkup{."3;9. *Triphleba collini*"Uej o kv|."
3;65. "*Veruanus oldenbergi*"Uej o kv|."3;3;."cpf"*Xenotriphleba dentistylata*"Dwem."3; ;90"

Key words: Fkrvgtc."Rjqtfcg."E|gej "Tgrwdnke."Dqj g o k c ."lkg|gtum²jq{ "Ovu."Ht fncpv"tgikqp."hcwpkukcu."dkq/
nqi {."pgy"tgeqtfu

—XQF

Jtdknmqxkv¶*Rjqtfcg+"rcv ¶"u"x¶eg"pgfl"5"222"rqrucp ok"ftwj{"egnqux vxq²"hcwp{"m"pgl/
rq gvp l-¶o" gngf¶o"Fkrvgt."v²o "rqnqxkpw"ftwj "vxq ¶"vczppq o kem{"mq o rnkmqxcp "o qthq/
nqikem{"jq o qi gpp¶"tqf "*Megaselia*."Gxtqrum^a"hcwpc"|cj t p w l g "826"ftwj . "| "vqj q "622"|"tqfw"
*Megaselia** Ygdgt"422; +0"X" gum²"tgrwdnkeg"d{n"fqwfw"|lk-v p"x um{v"449"ftwj "rcv ¶e¶ej"fq"
47"tqf "Oqegm"4228+."tgr0"342"ftwj "46"tqf "mtq o "tqfw"*Megaselia*pg|cj t p w v²jq"fq"v²vq"
rt^aeg0\ "Lk|gtum ej"jqt"o"ht fncpvumc"pgd{nc"rwdnkmaq^apc"fl^afp^auvct-¶"hcwpkukem^a"fcvc."r gf/
mn^a fcp^art^aeg"lg"vgf{"rtxp¶"hcwpkukemqw"uvfwk¶"q" gngfk"Rjqtfcg|"v²vq"qdnucvk0

Jtdknmqxkv¶*Rjqtfcg+ug"pcej^a|gl¶"x"t |p ej"v{rgej"hgup¶ej"uvcpqk- "k"pgngup¶ej"dkqvq r "
*nqwm{."tc-gnkp-k-v . "uvgrk+0"Kocic'd xcl¶"grkigkem^apgdq"jgtdkmqnp¶."p mvgt²"ftwj{"tqf "*Phora*."
Diplonevra, *Conicera*, *Metopina*, *Megaselia* p c x - v x w l ¶ m x v { . " | g l o 2 p c q m q n ¶ m { " o k ¶ m q x k v e j "
*Crkecg+0" cfc"ftwj "tqf "*Anevrina*, *Triphleba c Megaselia*"lg"mcxgtpkmqnp¶."r ¶rcfp "
vtqin¶qLnp¶0"Kocikp^anp¶"uv^a fkc" gngfk"Rjqtfcg"n|g"pcn²|v"rq"egn "tqm."ru{ej tqLnp¶"ftwj{"tqf "
Triphleba c Megaselia"luqw"cmvxp¶"r gfgx-¶o"x"|k o p ¶ e j " o u ¶ e ¶ e j "0

Rqvtcxp¶"rtghgtgpeg"nctgx"luqw"xgnkeg"tq|o c p k v²."w"x v-kp{"ftwj "x-cm"pgluqw"lwxgpkp¶"
x xqlqx^auv^a fkc"|p^ao c0"Opqfluvx¶"ftwj "lg"ucrtqh^a i p ¶ e j "u"t | p q w "o ¶ t q w "u r g e k c n k | c e g 0 " W " f t w j " "
x{x¶|gl¶e¶ej"ug"x"pcr 0"x"rnfl¶ej."j p ¶ | f g e j "u e k ¶ n p ¶ e j " d n c p q m ¶ f n e j . " p q t ¶ e j " | g o p ¶ e j " u c x e . "
j p ¶ | f g e j " r v ¶ a m . " I g u m { p ¶ e j . " j q w d ¶ e j " c " x " l k p e j " j p k l ¶ e ¶ e j " u w d u v t ¶ v g e j " t q u w n k p p 2 j q p g d q f l k x q /
k-p²jq"r xqfw"mq o rquvej."gzmtg o g p v g e j . " o t v x 2 o " f g x " c r q f 0 + " p g p ¶ x f l f { " | g l o 2 . " | f c "

flq"q"hcmmwncvxp"rtgfa"vt{"pgdq"ucrtqh"i{"o"Xgnmqw"umwrkpw"ftwj"v"vxq"flqdnki"ap"rctc|kvqkfk"
ngpqxe."r"gfgr-flo"t|p"ej"uv"fk"j"o{|w."o"pqjppqflgm."rcxqwm."cng"kl"xcl"gm"rnfl"crqf"o"
Fquw"l"p"o"2"r"q|pcvm{"q"|r"uqdw"flkxqvc"ngfk"Rjqtfcg"ujtpwn"Flkupg{"*3; ;6+0

OGVQFKMC"C"OCVGTkfN

Vgt2pp"rt|mw"o"d{n"wumwv"p"p"ftwj"o"cv"gv"o"cwvqg"o"*Rl"Xqpk"mqw"o"l0"Rtkgungt"o"+"ngvge"j"422464229"o"
Pc"hcmmcnk"ej"tgrtg|gpwlfefej"ejctcmvgtkukem2"dkvqr{|mqw"ocp2"qdcuvk"x"gv"tg|gtxcef+d{n"r"qwfllv{"Ocncuk"j"q"
rcuwk."flnw2"o"cum{|."rtqvgkppx2"*o"cuqx2+"pgdq"r{|tc"okf"ap"r"cuwk0"Rqftqdp"v{|vq"o"gvqf{"r"r"rkuwlg"Xqpk"mc"422: +0"
Mq"okpcef"v"ej"vq"ghgmvxpfej"ogvqf"ug"u"o"m"p"o"o"clp"okkpfkxkf"wp"o"kvge"j"pkmc"ok'd{ng|cej{egpa"tgrtg|gpvcvxp"
o"pqfluvx"o"cvgtk"mw"ngfk"Rjqtfcg."mvg"t'd{n"x"v"ff"p"l"r"funw-p"ej"ud"t"v"gv"o"cwvqg"o"l"R"vgtg"okpcek"o"x"j"q"ffqep"
|fumpc2"j"o"cvgtk"mw"rtqxf"n"rxp"cwq"t"D0"Oqegm"o"nkjx"ej"x|qtm"dn"ugnmvx"p"tqf"Magaselia."mvg"pgd{n"
f"ng"l"rtceqx"p"cu"r"q"qkpc"cej{egp"ej"gzg"o"rn"ngfk"Rjqtfcg+0"Xg-mgt"o"cvgtk"n"quvcvfej"tqf"u"x"lk"omqw"
u"oke"tqfw"Phora"3"54:"gzg"o"rn"+.d{n"fgvgt"okpqa"p"q"Atqxp"ftwj"l"O"egm"o"d{ng"fgvgt"okpqa"p"q"ftwj"q"2"
Atqxp"6"653"gzg"o"rn"l"R"jqtfcg"o"cvgtk"n"lg"fg"r"q"q"p"p"x"gpv"o"q"q"ikem"ej"ud"ftm"ej"Ow|gc"x"ej"q"ff"fej"gej"
x"J"tcfek"Mt"nqx2"o"Ugxgtg" gum2"j"q"ow|gc"x"nkdgtel"Rqftqdp"l-f"x"o"og|gp"o"ejctcmvgtkukem"ungf"qcxp2"j"q"À|g"o"l"
xk|Xqpk"mc"("Xl- "m"422: +0

Rqwfllv2|mtcv{"ogvqf"ud"tw"x"r"gjngfw"ftwj" <EHV"o"eq"okdpgf"iki"j"v"vtrcu"o"v"vtqmg"vtrcu"*p"t|qx2"rcuwk." "
GV"o"o"gti"epge"vtrcu"*og"ti"gpv"rcuwk."OV"o"Ocnclug"vtrcu"*Ocnclug"j"q"rcuwk."RV"o"rtqvgk"vtrcu"o"ogcv"vtrcu"
*rtqvgkppx2."o"cuqx2"rcuwk."R|T"o"r{|tc"okf"vtrcu"*r{|tc"okf"ap"rcuwk."|RV"o"l"gmqy"rcp"vtrcu"*flnw2"o"cum{+."x-g"
l0"Rtkgungt"("Rl"Xqpk"mc"n"v"U"Y"o"u"y"grkri"u"o"m"p"l"x"gi"gvceg"gpv"o"q"q"ikemqw"u"fl"l0"Rtkgungt"ni"v)

R gjngf"nqmcnk

-fclg"m"nqmcnk"o"luqw"xwgf"gp{"x"p"ungf"wfef"o"rq"cf"l"funq"o"p"l"gx"nqmcnk"q"q"q"q"ge."u"av"qdeg"ej"t"p"p2"À|g"o"l."
xtejq"crqf"o"l"hcwplkukem"o"ocrqx"v"vxgtge"*Rtwpgt"("O"m"3 ; ;8+."pcf"o"q"um"x"-mc."dkvqr"o"p"mvg2"nqmcnk{"luqw"
tq|f"ngp{"pc"x"leg"dkvqr."mvg"t"luqw"q|pc"gp{"r"fu"o"gp"l0"Rqwfllv2"|mtcv{"<PRT"o"p"tqf"p"r"ftqf"p"tg|gtx"ceg."RT"
o"r"ftqf"p"tg|gtx"ceg."RR"o"r"ftqf"p"rc"o"vml"

[1] Albrechtice v Jizerských horách."7479."822"o."rqvqm"wf"qnp"l"uvcpeg"ncpqxm{"pc"m"rk"am"l0"4_Dgf"kej"qx."7478."
972"o."Dgf"kej"qxum2"ugfnq"ngu+0[3] Bílý Potok."7379<[3a]"o"q"m"cf"o"xnjm2"nqwm{"pc"fm"qwrck-v"o"l"klp"qf"qdeg."
632"o"=[3b]t{dp|m"m"uxl"q"fl"gnl"uvcpeg."672"o"*rtc"ogpk-v"o"q"m"cf"=[3c]d"gj"J"l"gp2"j"q"rqvqm"ugxgtp"qf"D"tmqx"l"
dqwf".742"o"*dw"kp"=[3d]d"gj"j"m"l"U"o"f2"v"Ugf"okv"o"qx2"j"q"o"quw"l"l0"q"l"qdeg."822"o"*dw"kp"l0[4] Bukovec
PR."7377:<[4a]"ngup"l"rto"gpk-v"pc"l"l0"uxc"jw.";22"o"=[4b]"Rtcnqwmc.";22"o"*jqtum"nqwmc."rto"gpk-v"o"q"m"cf"=
[4c]q"fw"o"gn"u"o"t"kp"u"p"ngv"o"lg"dw"rvc"j"j"pc"u"l0"uxc"jw.";72"o"l0[7]_ gtp"ajqtc."7379<[5a]"gtp"ajqtc"RT."
X"pq"p"nqwmc."3"272"o"*tc-gnkpk-v"=[5b]"o"kup"j"q"nkpc"o"u"o"tmqx"o"nc|kpc"pc"l"l0"uxc"jw.";2"o"l0[8]_ gtp"lgl"tmc"
PR."7379.";42"o."Vgv"gx"nqwmc"*tc-gnkpk-v"l0[9]_ gtp"l"mc"q"q"ge"fgup"x"l"l"gtum"ej"jqt"ej+."7479."972"o."
rqvqm" gtp"l"mc"ngu+0":_ gtpqwu{/X"Rqk."7278."472"o."uquvxc"t{dp|m"x"ejqf"q"q"cf{"o"q"m"cf."q"n-kpc"l0"
[9] Frýdlant."7278."542"o."d"gj"j"gm{"U"o"f20[10] J cteqxum"j"dg"v."7478."772/822"o"*ngu."rqvqm"+0[11] Horní
gtp"Uwv"plieg"q"q"ge"p"q"x"Xgu"pc"p"l"kuq+w."7479."972"o"*xnjm2"nqwm{"o"q"m"cf."q"n-kpc"l0[34]_ Jqtp"l"nw"cp"l"q"q"ge"
Nw"cp"l"pc"p"l"kuq+w."7479."892"o."t{dp|m"m"fu"am"l0[13] Horní Pertoltice"q"q"ge"Rgtvqm"keg+."7278."522"o."J"t"cp"p"
t{dp|m"r"qf"o"gp"q"n-kpc"l0[14] Horní Polubný"q"q"ge"m"q"gpqx+."7477:"922"o."o"q"m"cf"l"o"nqwm{"x"À"q"q"l"l0"q"l"q"q"cf"l0"
[37]_ Jqtp"l"cupleg."7279."622"o."q"r-w-v"p"r"umqxp"r"q"l"Mc"ogpp"o"xte"j"o"l0[38]_ Lgfnqx" f"n"RT."7479."892"o."
rqvqm"l"l"gnqx"ngu+0[39]_ Lkp"l"kej"qxum"o"q"m"cf"RR."7479."822"o"*nqwm{"o"q"m"cf"l0[3]:_ Lk"gv"p"r"q"l"l"dw"mqxw."7479."
772"o."xnjm2"nqwm{"pc"u"l0"q"mtcl"q"q"ge"l0[19] Jizerka"q"q"ge"m"q"gpqx+."7377:<[19a]d"gj"j"m"l"l"l"gtm{"."62"o"=[19b]
u"o"tmqx"ngu"x"qmqn"l"t"l"72:92"o"l0[19]c"nqwm{"x"q"cf"l"72"o"l0[42]_ Mq"gpqx."7477:"8:2"o."rqvqm"o"q"m"kp"l"
r"q"l"fl"gnl"uvcpeg"l0[43]_ Mt"up"Uwv"l"p"mc"q"q"ge"nkdgtge+."7378."5:2"o"o"q"m"cf."nqwm"l0[22] Kristiánov"q"q"ge"Dgf"l/
ej"qx+."7379:"22:52"o."u"o"tmqx"ngu."rqvqm"l0[45]_ M"flqx"xt"ej"RT."7278."542/572"o."nkupcv"ngu."q"n-kpc"o"q"m"kp"l0"
[46]_ Nkdgtge/Xguge."7478."582"o."Af"q"l"Xgugem"j"q"r"q"v"q"m"l0[47]_ Oca"Uv"t"p"RT."7479."922/942"o."xnjm2"nqwm{"o"q"m"cf"l"t{dp|m"
Fwd"m"*o"q"m"cf."r"qf"o"gp"q"n-kpc"=[26b]q"q"cf"o"l"nk"r"q"xm"q"q"ge"Xk-qx"u"l"l"gtm+."7377:".";2"o."Mq"d{n"rqvqm"u"o"t"kp"l0"
[29] Nová louka PR."7378/7379."992"o."tc-gnkpk-v"l"l"gtm+."7377:".";2"o."Mq"d{n"rqvqm"u"o"t"kp"l0[52]_ Qnf"kej"qx"
x"J"l"l"ej."7378<[30a]"u"v"p"o"Rkn"ej."622"o."rqvqm"l"l"q"q"q"nqwm{"|c"j"t"cf"l"=[30b]nqwm{"x"qmqn"q"q"ge"e"e"622"o"=
[30c]ngu"x"qmqn"q"q"ge."652"o"l0[53]_ Qnf"kej"qxum2"ugfnq."7378."722"o."Xkpk"p"aguvc"dw"kp"l0[32] Paseky nad

Jizerou. '747.: '792' o. 'Ocmqxm "rqvqm*mqmcl'nguc+'[33] **Plavy.** '7479.'622' o. 'Àfqm'RTqtwdum² j'rqvqm*{dp} gm. 'ngup' r'rqvqm+'[34] **Poledník** 'xtejqn. 'PRT' Lk|gtumqjqtum² dw kp{+. '7378.: '72' o '*dw kpc+'[35] **Raspnava.** '7378< [35a]' r'rqvqmTM qnrkej 'c' t {dp} m' Jcmgp. '582' o '*nqwm{. 'rcuwxk{+ '[35b]' J qnwd' r'rqvqm. 'o qm cf' r'qf'flgn'vtcf. '542' o '[35c]' HctumTM 'hqwmc. '5: 2' o [58] **Tc-gnkp-k-v** 'Lk|gtm{ 'PRT. '737.: '72' o. 'tc-gnkp-k-v. 'u o t kp{. 'mng qx² r'rtqv. 'd gj { 'Uchf'qx² j'q' r'rqvqm' [37] **Tc-gnkp-k-v** 'Lk|gt{ 'PRT. '7379/737.: '52/: '92' o. 'tc-gnkp-k-v. 'tc-gnkp² u o t kp{. 'd gj { 'gm{ 'Lk|gt{ [5] : 'Tgl'flegTM *qdge' Mq gpqx+. '747.: '872' o. 'r'rqvqm' Lg-mtcdgeTM *rtc o gpk-v. 'o qm cf+' [39] **Rudolfov** *qdge' Nkdgte+. '7478.'852' o. 'Àfqm' gtp² Pku { *ngu+' [62] **T{d} hqw m{ 'RT. '737.: '72' o. 'tc-gnkp-k-v [63] **Umngpc keg** *qdge' X{uqm² pcf' Lk|gtqw+. '747.: '772/782' o. 'qucf' C o gtmc *ngup' r'rqvqm+' [64] **U o tmx** *o culx' j'qt {+. '7379< [42a] 'xtejqnqxTM u o t kpc'pc+' [0] uxcjw. '3'322' o = [42b] 'Mng qxk-v. '3'272' o '*jqnkp. 'u o tmqxTM o ncl kpc+= [42c] 'Xnc-um 'j' dgv. '22' o *dw kpc+= [42d] 'r'rqvqm' XgnmTM 'T{d} xqfcTM *o quv' r'qf' Htceqwlum ok' mc o gp{+. '22' o '*ngu+= [42e] 'Nkdxgtfum "o quv. '922' o. 'd gj' / vtcegp² j'q' r'rqvqmTM *ngup' r'rtc o gpk-v + [43] **Uv gfp' Lk|gtum 'j' dgv.** '7379.: '2' o. 'Ncuk 'f' eguvc. 'umTM nc' J qwdcTM u o tmqx 'ngu+' [44] **mp fgnqx 'f n.** '7379.'822/: '82' o. 'Àfqm' TM kpfgnqx² j'q' r'rqvqmTM *ngu+' [67] **mqe x' t {dp} m** *klfp 'qf' Tcurgpcx{+. '7378.'572' o. 'J qnwd' r'rqvqmTM *o qm cf{ 'x'qn-kp + [68] TM rkTM *m'c' Uvflqx 'xtej' *xtejqn{. 'PRT' Lk|gtumqjqtum² dw kp{+. '7378.'672/822' o. 'dw kpc. 'r'rqvqm' [69] **VkejTM 'f mc' RR.** '7479.'972' o. 'x'njm² hqwml. 'tc-gnkp-k-v [48] **U Kyselky** *klfp 'qf' Pqx² j'q' O wcr'qf' U o tmgo+. '7479.'822' o. 'Àfqm' / vtcegp² j'q' r'rqvqmTM *o qm cf. 'rtc o gpk-v. 'ngu+' [6] ; **X' rggp** 'xtej' RT. '7378.'622' o. 'qrw-v p 'nqo. 'nkupcv' ngu' [72] **Xtvmucxieg pc' f' Pluw** *qdge' Nkdgte+. '7478.'592' o. 'ctgTM n' / ftxqvp' j'q' 'Àvucw' [51] **Zadni kopec.** '7379.: '22' o. 'k o kup' j'qnkp. 'u o tmqx 'ngu' [52] **Zlatá Olešnice.** '747.: '682' o. 'Ftc 'f' r'rqvqm' r' g' 'Àuv' o' f'q' \ncv' fmwTM *o qm kp{+'**

X UNGFM ["C" FKUMWUG

R gjngf" |lk-v p ej"ftwj

Rq cf' ftwj "lg'cdgegf'p' |pq o gpmncv'wte'c' |^a mncfp' 'Àfclg'q' tq | -f' gp' luqw' r'qwfkv { " r'qfng' Ygdgtc*422: +0' Dkqnq' ikem² 'ejctcmvgtkuvkm { "x'ej^a |gl' | "rt^a eg' Fkupg { *3; ;6+ c' luqw' f'qrnp p { " xncv'p' |o' r'q |qtqx^a p' |o' -rnp² h'cw'pkukem² 'Àfclg'luqw'wxgfgp { 'lgp'w'x |^a ep l-^aej' ftwj. 'x' quvcv/ p'ej' r' f'rcfgej' luqw' r'tg |gpvqx^a p' |'lgp' egm'qx² r'q v { 'gzg o rn^a * " c " + |'l'gf'pqvnx ej' nqmcnk'v |c' egn² qd'f'qd' |x |mw o w' R'qwfkv² |mtcvm { < "B' : ó' p'qx "ftwj' r'tq' gej { . "CZ' : ó' p'qx "ftwj' r'tq' gumqw' t'grwdnkwm'0

Aenigmatias franzi 'Uej o kv |. '3; 72" **B!**
 Xgn ok' x |^a ep "ftwj. 'mtq o "Gxtqr { "mfg'lg' fquwf |p^a o " | "Tcmqwmc. TM x ectumc. 'Xgnm² Dtkv^a p'kg'c" gum² t'grwdnk' { "Ygdgt'422: +. 'lg'wx^a f p'v² fl | "Oqp'iqnumcTM * \clegx'3; 99+0' \ " T' |p^a o |c'v' |o' r'qwl |g' | "Oqtcx { < "Jtwd 'Lgugp' m' ó' tc-gnkp-k-v 'Um' v'gmTM * Oqegm'3; ;9+ c' PR' Rqf { | " ó' DtkvcxcTM * Oqegm' gy' c'n'0'4228+0' Pqx "ftwj' r'tq' h'cw'pw' gej'0' Lfg' | gl o "q' r'ctc |kvqk'f' mwmgn' o t'cxgpe 'tqf 'Lasius'c' Myrmica= k o c i c' d {nc'ej {v^a pc'x'j'p' |f'gej. 'x' xq'l'x-cm'pgd {n' r'tqm^a |^a p' *Fkupg {3; ;6+0

gtpTM j'qt c [5b] < 390XKK0/360XKK04224.'3' " * [RV+0' OcnTM "Uvtepc'RT']47. < 390XKK0/70XKK04224.'3' . '3' " * [RV+= 480XKK0/0XKK04225.'6' . '3' = ; /0450XKK04225.'3' " *x-g' OV+0' Poledník [34] < 520XKK0/360XKK04226.'4' " * [RV+0' Tc-gnkp-k-v 'Lk|gtm { NPR [36] < 4: 0XKK0/390XKK04227.'3' " *OV+0' Tc-gnkp-k-v 'Lk|gt { NPR [37] < 4: 0XKK0/320XKK04224.'7' = 320XKK0/30XKK04224.'8' " *x-g' OV+= 480XKK0/0XKK04225.'4' . '5' " * [RV+= ; /0450XKK04225.'3' = 450XKK0/70XKK04225.'3' " *x-g' OV+0' T{d} hqw m { 'RT']62. < 480XKK0/0XKK04225.'; " " *OV. [RV+= ; /0450XKK04225.'5' . '3' " *OV. [RV+= 450XKK0/70XKK04225.'3' " *OV+0' VlejTM 'f mc' RR']69 < 360/520XKK04226.'6' " *OV. [RV+= 520XKK0/360XKK04226.'4' " *OV. [RV+0' Egnmg o '72'gzl

Aenigmatias lubbockii *Xg'tcnn. '3: 99+
 Gxtqrum "ftwj. 'xg'uv gfp' Gxtqr 'ug'pcej^a |f' nqma'np 'pc'r' f'tqf'p'ej' c'r' f'tqf' dnf |m ej' uvc'p'q/ xk-v'ej' u'x um {vg o 'j'quvkvgnm ej' ftwj "o t'cxgpe 'tqf'w' Formica= r'ctc |kvqk'f' l'gl'kej' mwmgn'0
 OcnTM "Uvtepc'RT']47. < 70/430XKK04224.'3' . '3' " * [RV+0' Tc-gnkp-k-v 'Lk|gtm { NPR [36] < 70/4: 0XKK04227.'3' " * [RV+0' Tc-gnkp-k-v 'Lk|gt { NPR [37] < 4: 0XKK0/320XKK04224.'4' = 320XKK0/30XKK04224.'3' " *x-g' OV+0' Egnmg o '8'gzl

*Anevrina curvinervis**Dgemgt."3;23+

Jqncmvmkem "ftwj."xg"uv gfp" Gxtqr "rqo tp "jqlp "x"t |p ej"v{rgej"dkvqr "qf"p"flkp"rq"jqt{0"
Ucrtqh^a ip" nctx{ "u" rtghgtpe" m" pgmtqh^a ikk" ug" x{x"lgl" pc" o tvxqnm^a ej" ftqdp ej" qdctvnqxe ."
o tvx ej" jng o flf" ej. "cng" k"x" lkp ej" jpk" l" e" ej" qticpkem ej" |d{ve" ej" *pcr 0"x" pqt^a ej" ucxe +0
Jcteqxum "j dgv"]32.<3" *RV+0" Jizerka [19b]<3" *RV+0" M flqx "xtej" RT"]45.<3" *RV+0" Vkej^a " f mc" RR"]69.<3"
3" *OV+0" Egnmg o "6" gzl

*Anevrina thoracica**Ogki gp."3:26+

D flp "ftwj"u"jqncmvmkem o"tq|-f" gp"o"Ucrtqh^a i."x xql"pc"o tvxqnm^a ej" o cn ej" qdctvnqxe ."
gzmtg o gpvgej" o {-f" c" jpk" l" e" ej" qticpkem ej" |d{ve" ej" t |p² jq" ejctcmvgtw"0" Kocic" luqw" o km/
tqmcxgtpkmp" o" x{ jng f" xcl" e" j" qfd{ "c" j" p" |f" c" |g o p" e" j" ucxe ."
cuvq" luqw" uqw "u" w" grki gqpw" xnjm ej" hw p" e" j" k" ngup" e" j" uvcpxk- 0" X |jng fg o" m" grki gkem² o w" |r uqdw" flxqvc" ug" uc o keg" uwcp/
fctfp" ok" ogvfc ok" u o {m" +} cej{ "x" |" ap ."
|cl" o cx "Ig" rtqvc" ugnm vxp" l" ghgm v" rtqv gkpx ej" * o cuqx ej" + r" cuw" l" mfg" d{ n{ " |cej{ "egp{ "rqw" |g" uc o keg" *62" gzl" |" egm qx ej" *75+0

Albrechtice v Jizerských horách [1]<3" *RV+0" Dgf kejqx [2]<4" *RV+0" Bílý Potok [3b]<3" *OV+0" Bukovec
PR [4a, c]<4" * [RV+3" 37" *RV+0" gtp^a jqt c [5a]<4" * [RV+0" gtpqw{ /X" Rqk [8]<4" *OV+0" Horní
cupkeg"]37.<33" *RV+0" Lgf nqx "f n" RT"]38.<3" *OV+3" * [RV+0" Jizerka [19b]<6" *RV+0" M flqx "xtej"
PR [23]<3" *RV+0" Nkdgtge/ Xguge"]46.<3" *UY+0" O cn^a "Uvtcpe" RT"]47.<3" *OV+0" Ogcpft{ "U o f²" RT"]48c.<4"
4" *OV+3" *RV+0" Mníšek [27]<4" *OV+0" Nová louka PR [29]<8" .3" *OV+0" Qnf kejqxum² ugf nq"]53.<3"
3" .3" * [RV+0" Poledník [34]<4" * [RV+0" Tc-gnkp-k-v "Lk|gt{ NPR [37]<7" *OV+6" * [RV+3" 6" *RV+0"
Tgl fkeg"]5.<3" * [RV+3" *RV+0" T{ d" l" nq w m{ "RT"]62.<6" *OV+4" * [RV+0" U o tm"]64e. f.<3" * [RV+3"
3" *RV+0" M rk^a m c" Uvtflqx "xtej"]68.<7" .3" * [RV+3" .3" *RV+3" *UY+0" Vkej^a " f mc" RR"]69.<3" "
* [RV+0" Zadní kopec [51]<3" * [RV+0" Egnmg o "324" gzl

*Anevrina unispinosa**\gvvgtfv gfv."3:82+

Rcngctmvmkem "ftwj."xg"uv gfp" Gxtqr "pgld flp l-f" ftwj" tqfw" *Anevrina*0" \qqcrtqh^a i."x xql"
r gfgx-f" o" pc" o tvxqnm^a ej" ftqdp ej" qdctvnqxe 0"

Albrechtice v Jizerských horách [1]<3" *RV+0" Dgf kejqx [2]<32" * [RV+0" Bílý Potok [3b]<4" *OV."
[RV+0" Bukovec PR [4a, b, c]<46" .6" *EHV. "RV. R [T. " [RV+0" gtpqw{ /X" Rqk [8]<3" *OV+0" Jqtp" cu/
nice [15]<4" .3" *RV+0" Lk gvp" r qf" Dwmq xq w"]3.<3" *UY+0" O cn^a "Uvtcpe" RT"]47.<7" *OV+0" Meandry
U o f²" RT"]48c.<8" *RV+0" Nová louka PR [29]<3" *OV+0" Tc-gnkp-k-v "Lk|gt{ NPR [37]<3" *OV+0" Tgl fkeg"
[38]<5" *RV+0" U o tm"]64e. f.<5" * [RV. "RV+0" M k p f g n q x "f n"]66.<3" *UY+0" M que x" t{ dp" m"]67.<39" "
*OV+0" M rk^a m c" Uvtflqx "xtej"]68.<4" .3" *RV. " [RV+0" Vkej^a " f mc" RR"]69.<3" * [RV+0" Zlatá Olešnice [52]<3"
3" *UY+0" Egnmg o "8" gzl

*Anevrina urbana**Ogki gp."3:52+

Jqncmvmkem "ftwj."x" Gxtqr "jqlp 0" Ucrtqh^a ip" ftwj" pcej^a |gp "pc" jpk" l" e" ej" qticpkem ej"
n^a vm^a ej. "pcr 0" pc" |fgej nkp^a ej. "x" pqt^a ej" |g o p" e" j" ucxe "crqf0

Albrechtice v Jizerských horách [1]<4" *RV+0" Bílý Potok [3b]<6" .6" *OV+0" gtp^a " f mc"]7.<3" "
*RV+0" J qtp" cupkeg [15]<4" *RV+0" Lgf nqx "f n" RT"]38.<4" *RV+0" Ogcpft{ "U o f²" RT [26a]<5" *RV+0"
Tc-gnkp-k-v "Lk|gtm{ NPR [36]<3" *OV+0" Tc-gnkp-k-v "Lk|gt{ "PRT [37]<4" *OV+0" U o tm [42c, e]<3" .3" * [RV."
RV+0" M rk^a m c" Uvtflqx "xtej"]46]<8" *RV+0" Egnmg o "4" :gzl

*Beckerina umbrimargo**Dgemgt."3;23+

Ftwj"u" gxtqr um o"tq|-f" gp"o"Ucrtqh^a i."x xql"pc"o tvxqnm^a ej" o cn ej" qdctvnqxe ."
gzmtg o gpvgej" o {-f" c" jpk" l" e" ej" qticpkem ej" |d{ve" ej" t |p² jq" ejctcmvgtw"0" Kocic" luqw" o km/
tqmcxgtpkmp" o" x{ jng f" xcl" e" j" qfd{ "c" j" p" |f" c" |g o p" e" j" ucxe ."
cuvq" luqw" uqw "u" w" grki gqpw" xnjm ej" hw p" e" j" k" ngup" e" j" uvcpxk- 0" X |jng fg o" m" grki gkem² o w" |r uqdw" flxqvc" ug" uc o keg" uwcp/
fctfp" ok" ogvfc ok" u o {m" +} cej{ "x" |" ap ."
|cl" o cx "Ig" rtqvc" ugnm vxp" l" ghgm v" rtqv gkpx ej" * o cuqx ej" + r" cuw" l" mfg" d{ n{ " |cej{ "egp{ "rqw" |g" uc o keg" *62" gzl" |" egm qx ej" *75+0

M flqx "xtej" RT"]45.<530X04226."3" *UY+0" Ogcpft{ "U o f²" RT"]48c.<60/3; 0X04227."3" *OV+0" Poledník [34]<80X0/40X04226."3" *OV+0" Tgl fkeg"]5.<50/3; 0X04227."3" * [RV+3" 470X04227."3" *UY+0" M que x" t{ dp" m"]67.<520X0/390X04224."3" *OV+3" 390X0/70X04224."3" *OV+0" Egnmg o "9" gzl

*Borophaga femorata**Ogki gp."3:52+

Rcngctmvkem "ftwj."rqo tp "jqlp "pc"xnjm ej"nw pfej" k"ngupfej"uvcpqkx-vfej0"Kocic"luqw" ĩqtkmqnpf."x xql"pgpf" |p^a o

Bílý Potok [3a,b] <3 .3" *OV." [RV+0"**Bukovec PR [4a, b] <4** .3" * [RV."UY+0"**Mníšek [27] <3** " *UY+0"**Tc-gnkp-k-v** "Lk|gtm{ **NPR [36] <3**" * [RV+0"**Tc-gnkp-k-v** "Lk|gt{ **NPR [37] <3**" *OV+0"**Rudolfovo [39] <3**" *UY+0"**T{d}nqw m{RT}j62 <5**" *OV+0"**Uo tm}j64c.e.g. <85**" .32" * [RV."UY+0"**qne x't{d}pfm}j67 <3** .5" " *OV+0"**rk am c'Uvflqx "xtej}j68 <76** .5" * [RV+0"**Egngm o"368'gz**]

*Borophaga germanica**Uej okv|.3:3:+

Fquwf" |p^a o "ctg^an"tq | -f| gpf" | c|jtpwlgmqpvkpgpv^anpf" Gxtq^rw* | cvf" o "Dgnikg." Jqncpfumq." P o ge/ mq." Rqnumq." T." Unqxpumq." Oc ctumq+0" X" T"x v-kpqw"x" ejncfp l-^afej" qdncuvgej <" Qtnkem²" jqt{." Mtmqpg-g" D0" Oqegm." pgrwdn0+." fi^a tum²" xtej { "Oqegm"3; ;9+." r^apqx"w" D{nkp{ "x"u|0" gej^aej "Oqegm" ("Dctv^am"4222+0" X xql"pgpf" |p^a o." rctxf r qf qdp "rctc|kvqkf0

Bílý Potok [3b] <380XK0/70XK04227.3" *OV+0"80/380XK04227.6" .3" * [RV+0"**Ocn"UvtcpcRT}j47 <320/480XK04225.4**" *OV+0"480XK0;0XK04225.4" *OV+0"**Egngm o"32'gz**]

*Borophaga incrassata**Ogki gp."3:52+

Ftwj'u" gxtqrum o"tq | -f| gpf" o" Pgl d flp l-^afej"tqfw."pcn² |^a p'pc"xnjm ej" hqwm^aej" x"nkuvpcv ej" c"u o | -gp ej"ngu"fej0"Kocic"jgtdkmqnpf."x xql"x"nctx^aej" o wej pke" gngfk" Ddkqpkfcg0

Nkdgtge/Xguge}j46 <3" *UY+0"**Vkej^a f mc"RR}j69 <3**" *OV+0"**Egngm o"4'gz**]

*Borophaga irregularis**Yqqf."3:34+" **CZ!**

X|^aep "gxtqrum "ftwj." fquwf" rqw |g" lgpqvnkx²" p^ang | {" | "Dgnikg." Xgngm²" Dtkv^apkg." F^apumc." P o gemc." Rqnumc" cTMx ectumc0" Dkqni kg"pgpf" |p^a o cl" Pqx "ftwj" r tq" hcwpw" gum²" tgrwdnkm {0" **Qnf ke j qxum²ugfnq}j53 <370XKK0/50XKK04225.3**" * [RV+0

*Borophaga subsultans**Nkppcgwu."3989+

Jqncmtvmkem "ftwj."x" gum²" tgrwdnkeg"ur | -g"x |^aep 0"Kocic"ug"pcej^a |glf" x"nkuvpcv ej"ngu"fej" c"pc"lglkej"qmtclfej0" X xql"pgpf" |p^a o 0"

Bukovec PR [4b] <90XK04226.4" *UY+0"**Mt^aup^a"Uvfw"pmc}j43 <3; 0KKK04225.3**" *UY+0"**Vkej^a f mc"RR}j69 <70X04225.3**" *UY+0"**Egngm o"6'gz**]

*Conicera dauci**Ogki gp."3:52+

Jqncmtvmkem "ftwj."x" Gxtqr "xgnok" jqlp "qf" p'flkp"fq" jqt0" Ucrtqh^ai." nctx { "fklf" x" jpkf"fej" uwdv^avgej" flkxq k-p²jq" tquvknpp²jq" r xqfw." kocic"luqw" ĩqtkmqnpf." cuvq"pc"qmqn"fej" ok f/ mqxkv ej" *Crkecg+0"

Bílý Potok [3b] <6 * [RV+0"**Bukovec PR [4a, b] <8** .3" *EHV." [RV+0"**Frydlant [9] <3**" *UY+0"**Horní Polubný [14] <4**" *UY+0"**Lgfngx "f nRT}j38 <3**" * [RV+0"**Jizerka [19c] <3**" *UY+0"**M flqx "xtej"RT}j45 <3** .3" *RV." UY+0"**Nkdgtge/Xguge}j46 <8**" *UY+0"**Ocn"UvtcpcRT}j47 <8** .3" *OV." [RV+0"**Ogcpft{Uo f²RT}j48c <3**" " *OV+0"**Qnf ke j qx"x"J^alfej}j52d <3**" *UY+0"**Qnf ke j qxum²ugfnq}j53 <4**" * [RV+0"**Raspenava [35c] <3**" *UY+0"**Tc-gnkp-k-v** "Lk|gt{ **NPR [37] <4**" * [RV+0"**Tglfieg}j5: <4**" * [RV+0"**Rudolfovo [39] <3**" *UY+0"**qne x't{d}pfm} [45] <4**" *OV+0"**rk am c'Uvflqx "xtej}j68 <9**" * [RV+0"**Vkej^a f mc"RR}j69 <8**" * [RV+0"**Egngm o"74'gz**]

Eqpkegtc" ĩqtkeqnc"Uej okv|.3:5:

Gxtqrum {tq | -f| gp "ftwj."xgnok" jqlp "ucrtqh^ai." pgl d flp l-^afej"tqfw" *Conicera*0"Kocic"luqw" ĩqtkmqnpf." cuvq" xg"x v-^ao" o"pqfluvx"pc"qmqn"fej" ok fmqxkv ej" *Crkecg+0

Bílý Potok [3a, b]<8 *OV." [RV+0] **Bukovec PR [4a, b, c]<3**; .3" *EHV." [RV.UY+37" *RV+0] **gtp^a**
hora [5b]<3 * [RV+0] **Frydlant [9]<3** *UY+0] **Lgfⁿqx "f n"RT]38<3** *OV+3" * [RV+0] **Jizerka [19a, c]<5** " "
*UY+0] **M flqx "xtej"RT]45<3** *UY+0] **Oca"Uvt^epc"RT]47<6** *OV." [RV+0] **Ogcpft{Uo f²RT]48c<8** " "
*OV+3" *RV+0] **Mníšek [27]<8** *UY+0] **Nová louka PR [29]<45** .4" *OV+0] **Qnf kej^qx"J"lfej]52c.<d<**
6 .3" *UY+0] **Qnf kej^qxum²ug^fnq]53<5** * [RV+0] **Poledník [34]<5** .3" *OV." [RV+0] **Raspenava [35a]<**
3 *UY+0] **Tc-gⁿkpk-v "Lk|gtm{ NPR [36]<4** .4" * [RV.RV.UY+0] **Tc-gⁿkpk-v "Lk|gt{ NPR [37]<3**:" .3" *"
*OV." [RV+0] **Tgl^fkq]5<4** *GV." [RV+0] **Rudolfov [39]<4** *UY+0] **T{d^fhqw m{RT]62<48** .5" *OV."
[RV+0] **Uo tm]64c.<d<4** * [RV+3" *RV+0] **qne x't{dp^fm]67<9** *OV+0] **mrk^am c'Uvt^flqx "xtej]68<8** " "
* [RV+3" *UY+0] **Vkej^a "f mc"RR]69<38** *OV." [RV+0] **Kyselky [48]<3** *OV+0] **Egmg o"388"gzl**

Conicera schnittmanni"Uej o kv|.3;48

Gxtqrum "ftwj."pcej^a|gp "ur^f-g"x|^aep "pc"p^glt |p l-^fej"uvcpq^xk-v^fej"uvgrk."ngu{."tc-gⁿkpk-/
v +^qf"p^flkp"cf^lf^qj^qtum ej"q^dncuv⁰"Kocic^df^{nc}p^{ng}|gp^cpc^{mx}v^{ge}j."dnk^f-^fdkqⁿqⁱk^c"x x^ql"
p^{glu}w"^lp^a o 20

Bukovec PR [4a]<480XKK0;0XKK04225.4 =40/490KZ04225.4" *x-g" [RV+0] **gtp^aj^qtc [5b]<50/390XKK04224.**
3 * [RV+0] **Tc-gⁿkpk-v "Lk|gtm{ NPR [36]<4**:0XKK0/390XKK04227"3" .3" * [RV+0] **Tc-gⁿkpk-v "Lk|gt{ NPR [37]<**
390/4;0XKK04224.3 *OV+320XKK0/30XKK04224.8" *OV+360/490XKK04224.3" *OV+450XKK0/70XKK04225.3" "
* [RV+0] **T{d^fhqw m{RT]62<**;0/450XKK04225.3" *OV+0] **Uo tm]64c<**350XKK0/50XKK04228.3" * [RV+0] **Zadni**
kopec [51]<50/390XKK04224.3 * [RV+0] **Egmg o"3**;gzl

Conicera similis"*Jcnkfc{.3:55+

Jqⁿctm^{vkem} "ftwj."x" T"x|^aep l-^fpg^fr^fdw|p "c"q^dv^fflp "q^fnk-kvgnp "ftwj"*C. tibialis* Uej o kv|. "
3;470]Dkq^pq^okg^rq^fq^dp"lcm^w"lkp ej"ftwj "tq^fw"*Conicera*."cx-cm"o^anq"^lp^a o^a=f^qnq^fl^gp^d"n"
p^cr 0^x um{vⁿct^gx"x^jp^l|f^ge^j"xqu^tq^fw"*Vesputal*"

Mníšek [27]<460X04225.3 *UY+0"

Conicera tarsalis"Uej o kv|.3;42

Gxtqrum "ftwj."x" T"pcn²|cp "ur^f-g"x"j^qtum ej"c"r^qf^jq^{tum} ej"nq^mcnk^v^aej⁰]Dkqⁿqⁱk^g"pgp^f"
|p^a o^a.rtcx^f r^qf^qd^p "ucrtq^ai⁰

Lgfⁿqx "f n"RT]38<7 *OV." [RV+0] **Ogcpft{Uo f²RT]48c<4** " *OV+0] **Mníšek [27]<8** " *UY+0"
Nová louka PR [29]<36 *OV+0] **Qnf kej^qx"x"J"lfej]52c.<3** *UY+0] **Qnf kej^qxum²ug^fnq]53<3** * [RV+0]"
Poledník [34]<48 *OV." [RV+0] **Raspenava [35a]<3** *UY+0] **Tc-gⁿkpk-v "Lk|gtm{ NPR [36]<4** *OV." [RV+0]"
Tc-gⁿkpk-v "Lk|gt{ NPR [37]<:" *OV." [RV+0] **T{d^fhqw m{RT]62<6** *OV+0] **Uo tm]64c.<g<4** * [RV+0]"
mrk^am c'Uvt^flqx "xtej]68<7 * [RV+0] **Egmg o"93"gzl**

Conicera tibialis"Uej o kv|.3;47

Jqⁿctm^{vkem} "ftwj."d^flp "ug"x{um{v^ll^fe^f"x"p^glt |p l-^fej"dk^qv^qr^gej"q^f"p^flkp"q^f"j^qt0]Ucrtq^ai." "
x x^ql"x^qtⁱcp^{kem} ej"|d^fv^ef^{ej}."|gl o²pc^{pc}"o^{tv}x ej"q^dtc^vn^qx^ef^{ej}."cng^k"x^mq o^rq^vej."j^pq^lk"
cr^qf0]Qrcm^qx^{ep} "rwdⁿkm^qx^ap" c"fkum^wv^qx^ap"lg"o^{cu}qx "x um{v^{pc}"r^qj^dgp ej"o^{tv}xqⁿ^aej"
x"tcmx^fej"*eqh^lp"l{+0

Albrechtice v Jizerských horách [1]<3 *RV+0] **Bukovec PR [4b]<3** *EHV+0] **Horní Pertoltice [13]<3** *OV+0]"
J^qtp^f cup^leg [15]<3 .3" *RV+0] **Oca"Uvt^epc"RT]47<4** * [RV+0] **Ogcpft{Uo f²RT [26a]<7** *OV."
RV+0] **Qnf kej^qxum²ug^fnq]53<3** * [RV+0] **Raspenava [35a]<4** *UY+0] **Vkej^a "f mc"RR]69<3** * [RV+0] **Egn/**
mg o"38"gzl

Chaetopleurophora bohemani"*Dgemgt.3;23+

X|^aep l-^fgxtqrum "ftwj."x" T^lgf^pq^vnx²p^ang{|"x"p^flkpp ej"q^dncuv^gej."|gl o²pc"xⁿhk^uv^pcv ej"
ngu^fej⁰"X{x^ll^fug"x"o^{tv}x ej"rn^ffej⁰"

Ogcpft{Uo f²RT]48c<3;0/530X04227.3" .3" *OV+0] **Raspenava [35a]<530X04226.3** *UY+0] **Egmg o"5**"gzl

*Chaetopleurophora erythronota**Uvtqdn."3:;4+

Jqncmtvmkem "ftwj."x"Gxtqr "pgljqlp l-"ftwj"tqfw0"D flp "ug"pcej a|f"pc"t |p ej"uvcpqkx-v"fej"
u"x um{vgo"x v-"fej"wnkpcv ej" rnf "tqf{"*Helix, Cepaea*+"pgl cuv lk"xg"ux vn ej"nkupcv ej"
ngu"fej0"Ucrtqh"i."x xql"x"otvx ej"rnf"fej0

Frydlant [9]<4 *UY+0"**Horní Pertoltice [13]<3** *OV+0"**M flqx "xtej"RT]45_<:"** .5" *RV."UY+0"
Ogcpft{"Uo f²RT]48c_<5 *OV."UY+0"**Qnf kej qx"x"J "lfej"]52c_<3** *UY+0"**Tglfkeg]5:_<3** * [RV+0"
Egmg o"3;"gz0

Chaetopleurophora spinosior"Uej o kv|.3;5:"

B!

X|^aep "gxtqrum "ftwj."fquwf"|p^a o " |Xtunc."P o gemc."Oc ctunc." gum²tgrwdnkm{"ó"Ngfpkeg"
pc"Oqtex *Oqegm"3; ;9+c"Unqxpumc"ó"Xt^avpc"fqkpc"*Oqegm"3; ;3+0" P^ang|" |Lk|gtum ej"
jqt"lg"rtxp|"o"Áfclg o" |Á|g o|" gej0"Rtcxf r qf qdp "pgmtqh^a i p|"ftwj"rtghgtw|e|" o tvx²"rnf|g."
r qf qdp "lcmq"quvcv|"ftwj{"tqfw0

Bukovec PR [4a]<380/4;0X04225."3 * [RV+0"

*Diplonevra abbreviata**xqp"Tuqgt."3:62+

Gxtqrum "ftwj."xg"uv gfp|"Gxtqr "xegnmw"jqlp "x"nkupcv ej" c"u o f-gp ej"ngu"fej"x"p"flkp^aej"
c"rcjqtmcvkp^aej0" \ r uqd"flkxqc"pgp|"p^a o

Horní Pertoltice [13]<3 *OV+0"**M flqx "xtej"RT]45_<:"** .6" *UY+0"**Ogcpft{"Uo f²RT]48c_<3** "
*OV+0"Egmg o"37"gz0

*Diplonevra concinna**Ogkigp."3:52+"

TMktqeg"tq|-f| gp "ftwj."wx^a f p " |"x v-kp{"gxtqrum ej"uv^av 0" \ r uqd"flkxqc"pgp|"p^a o."rtcx/
f r qf qdp "ucrtqh^a i 0

Bukovec PR [4a]<4 * [RV+0"**Jqtpf"NW ep{"]34_<3** *UY+0"**Oca^aUvtcpc"RT]47_<4** *UY+0"**Qnf kej qxum²**
sedlo [31]<3 * [RV+0"**Poledník [34]<35** ."3" *OV." [RV+0"**Tc-gnkp-k-v "Lk|gt{ NPR [37]<3** *OV+0"**Uo tm]64g_<**
6 *OV+0"**TMque x"t{dpfm]67_<3** *OV+0"**TMrk^am c"Uvtflqx "xtej"]68_<3** ."3" * [RV+0"Egmg o"4:"gz0

*Fkrnqpgxtc"tqtguegppu**Vwtvqp."3:23+"|u{p0"*Fkrnqpgxtc"tqtgc*"*Hcdtkekwu."39;6+_

Ftwj"u"rcngctmvmkem o"tq|-f| gp|"o"X{um{vwlg"ug"egnmg o"jqlp "pc"xnj "fej"uvcpqkx-v"fej."r g/
fgx-f o"x"nkupcv ej" c"u o f-gp ej"ngu"fej0"Nctx{"luqw"ucrtqh^a i p|"x xql"d{n"rq|qtqx^ap"pcr 0"
pc"o tvxqnm^aej"ftqdp ej"qdtcvnqxe 0"Kocic"luqw"tqtkmqpp|"pcej^a |gl|"ug"pc"t |p ej"mx vgej"
*pcr 0"Crkcegg."*Gagea lutea, Crataegus*"urr0+

Albrechtice v Jizerských horách [1]<7 *RV+0"**Bílý Potok [3b]<3** *OV+0"**Bukovec PR [4a, c]<6** ."36" "
*RV." [RV+0"**Lgfngx "f n"RT]38_<3** ."4" *OV." [RV+0"**Mq gpqx [20]<3** *UY+0"**M flqx "xtej"RT]45_<3** "
*RV+0"**Ogcpft{"Uo f²RT]48c_<3** *OV+0"**Qnf kej qxum²ugfnq]53_<3** * [RV+0"**Tc-gnkp-k-v "Lk|gtm{ NPR [36]<**
3 *RV+0"**Tc-gnkp-k-v "Lk|gt{ NPR [37]<3** ."4" *OV."RV+0"**Tglfkeg]5:_<8** *RV+0"**T{d"nqw m{"RT]62_<3** "
*OV+0"**Uo tm]64g_<f_<34** * [RV."RV+0"**TMque x"t{dpfm]67_<3** *OV+0"**TMrk^am c"Uvtflqx "xtej"]68_<6** ."59" "
*RV." [RV."UY+0"**Vkej^a "f mc"RR]69_<3** *OV+0"Egmg o"9;"gz0

*Diplonevra funebris**Ogkigp."3:52+

Jqncmtvmkem "ftwj."d flp "ug"x{um{vwl|e|"pc"p|gt |p l-"fej"dkvqrgej"ngu{"nqwm{"uwrk+0"Nctx{"
luqw"ucrtqh^a i p|"flkl|"pcr 0"x"qfw o"tcl|e"fej"xqu"fej"j p|"fgej."mf g"mqp|w o wl|"|d{vm{"flkxq k-p²j q"
r xqfw"pcr 0" o tvx²"nctx{"xqu+0"Kocic"luqw"tqtkmqpp0

Bukovec PR [4b]<4 *EHV+0"**gtp^a jqt c]5a]_<4** * [RV+0"**Jizerka [19a]<44** ."3" * [RV+0"**Oca^aUvtcpc**
PR [25]<34 ."3" *OV." [RV+0"**Qnf kej qxum²ugfnq]53_<3** * [RV+0"**Tc-gnkp-k-v "Lk|gtm{ NPR [36]<5** *OV."
[RV+0"**Tc-gnkp-k-v "Lk|gt{ NPR [37]<7** *OV." [RV+0"**T{d"nqw m{"RT]62_<4** ."3" * [RV+0"**Uo tm]64g_<3** "
*OV+0"**Zadní kopec [51]<3** * [RV+0"Egmg o"76"gz0

*Diplonevra glabra**Uej o kv|.3;49+

X|^aep l-^lftwj"u" gxtqrum o"tq|-^lgp^lo0" \ r uqd"flkxqvc"pgp^l"fquvcygp p" |p^a o."nctx{"luqw" rtxcf rqfqdp "ucrtqh^a ip^l."kocic"d{nc"rq|qtqx^apc"pc"mx vgej0"

M flq^x "xtej"RT]45_<520XK04226."3" *U Y+0" Tglfleg]5_<50/3;0X04227."3" * [RV+0TMque x^t{dp^lm]67_<390X0/70 XK04224."3" *OV+0^lEgmg o"5"gz0

*Diplonevra nitidula**Ogki gp."3:52+

Jqnctmvkem "ftwj."xg^luv gfp^l"Gxtqr "rcv ^lm"pgld flp l-^lo"ftwj o"tqfw0"Nctx{"flkl^l"x"uwduvt^avgej" qticpkem²jq"r xqfw^a*pc"o tvx ej"ftqdp ej"qdtcvnqxe^lej."fl^lflcn^aej."x" |cjp^lxcl^le^lo"tquvnp/ p²o"ocvgtk^anw+. "p mf{"k"lcmql"rctc|kv²"x"flkx ej"pgdq^aqfw o^ltlcl^le^lej"dg|qdtcvn ej" *rqr^ap"x xq^l"x^lfl^lflcn^aej"ftwjw"*Lumbricus terrestris*+0

Bukovec PR [4a, c] <8" .4" *RV. [RV+0" gtpqw /X^Rqk [8]<3" *OV+0^lHorní Pertoltice [13]<6" .3" " *OV+0^lHorní Polubný [14]<3" *U Y+0^lJizerka [19a]<3" *U Y+0^lMq gpqx [20]<3" .4" *U Y+0^lOcn^a"Uvtcpc"RT" [25]<5" *OV. [RV+0^lOgcpft{"Uo f²"RT"]48c."d_<4" *OV."U Y+0^lRaspenava [35a]<4" *U Y+0^lTglfleg" [38]<9" *GV. [RV+0^lT{d^lngw m{RT]62_<3" * [RV+0TMque x^t{dp^lm]67_<8" .5" *OV. [RV.U Y+0TMrk "m c"Uvtflq^x "xtej"]68_<3" * [RV+0^lVkej^a" ^lmc"RR"]69_<4" *OV+0^lEgmg o"67"gz0

*Diplonevra pilosella**Uej o kv|.3;49+

Gxtqrum "ftwj."x" T"rqo tp "jq^lp "pc"xⁿjm ej"nqwm^aej."x"ngu^lej"crqf0"Q" |r uqdw"flkxqvc" lg"fquw^lo" ^anq"|p^a o q0"D{ⁿ|c|pc o gp^apl"rctc|kvk| o wu"x^lfl^lflcn^aej."cx-cm"o qjⁿq^l"^lv²fl"q"ucrtqh^a ik^k"x"qfw o^ltlcl^le^lej"lgfke^lej0"Kocic"pcx-v xw^l"t |p²"ftwj{"mx v 0

Bukovec PR [4b] <40/490XK04225."3" *EHV+0^lOgcpft{"Uo f²"RT"]48d_<30/470XK04229."3" *OV+0^lPoledník [34]<470XK0/360XK04226."3" * [RV+0^lEgmg o"5"gz0

*Diplonevra sesquicornis**Uej o kv|.3;49+

Ftwj"lg"fquw^l|p^a o"|g^luv gfp^l"Gxtqr {"*Tcmqwumq."TMx ectumq."P o gemq." gum^atgrwdnkmc." Unqxgpumq."Oc ctumq+0^lP^ang{|" | gum²"c"Unqxgpum²"tgrwdnk{|"r^qej^a|gl^l"|vgrngl-^lej"nqmcnk^v." mfg^lug"ftwj"x{um{vwl^gx|^aep "pc"uvgr^lej."xⁿjm ej"mx vpcv ej"nqwm^aej."x"nwflp^lej"ngu^lej0"Kocic" d{nc"ud^lt^apc"pc"mx vgej"*Hedera helix*, *Glyceria*"ur r0^l*Fkupg{"3; ;6+."pc"o g^fx f^lo"gzmtg o gpw^w" *D0^lOqegm."pgrwdn0^lfcvc+0

Bukovec PR [4a] <70/420XK04225."3" * [RV+=3;0XK04227."4" *U Y+0^lHorní Pertoltice [13]: 360XK0/30XK04229."3" *OV+0^lMt^aup^a"Uwv^lf^apmc [21] <340X04222."3" *U Y+0^lOcn^a"Uvtcpc"RT"]47_<450XK0/70XK04225."3" * [RV+=70/420XK04225."3" *OV+0^lQnf kejqx"x"J^al^lej]52d_<460X04225."3" *U Y+0^lRaspenava [35a] <530X04226."4" " *U Y+0^lRudolfov [39] <490XK04225."3" *U Y+0^lque x^t{dp^lm]67_<520X0/390X04224."3" *OV+0^lEgmg o"33"gz0

*Gymnophora arcuata**Ogki gp."3:52+

Ftwj"lg"fquw^l|p^a o"|Gxtqr {"c"Mcxcn|w."lg"p^lgljqlp l-^lo"x"t^a oek"tqfw0"Pcej^a|^lug"x"ngu^lej" k"pc^lqv^gx gp ej"dkvqrgej"*nqwm{+^lqf"p^lflkp"fq"uv gfp^lej"rqnqj0"Nctx{"luqw"rtxcf rqfqdp " pgmtqh^a ip^l."kocic"flkl^l"r gx^aflp "grkigkem{."pcej^a|gl^lug"x"jtc^dcepeg."pc"Ar^cv^lm o gp "c"pc"nku/ vgej"d{ⁿkp"cmg "x"rqftquvw0

Dgf kejqx]4_<5" * [RV+0^lJqtp^l cupkeg]37_<4" *RV+0^lNkdtge/Xguge]46_<3" .4" *U Y+0^lTglfleg]5_<3" *GV+0TMque x^t{dp^lm]67_<3" .5" *OV. [RV+0^lVkej^a" ^lmc"RR"]69_<3" * [RV+0^lEgmg o"36"gz0

Gymnophora integrals"Uej o kv|.3;42

Rngctm^{vk}em "ftwj"*Gxtqrc."Twmq^l6^lF^anp "x ejqf."Lcrqumq+0^lX" Tlg^lpcej^a|gp^lur^l-g^lx|^aep " x"|cejqxcn ej"ngup^lej"rqtquvgej."p^lgl cuv lk"x"dw kp^aej0" \ r uqd"flkxqvc"pgp^l|p^a o0"

Bílý Potok [3a]<3;0X0/50XK04227."7" * [RV+0]Bukovec PR [4b]<490X04222."7" .3" *UY+0]M flqX "xtej"RT [23]<520X04226."5" .4" *UY+0]Qnf kej qXum²ugfnq]53<80/90X04225."4" =390X0/50X04225."4" .3" ."
*x-g [RV+0]rk a m cUvflqX "xtej"]68<380/430X04225."6" =460X0/60X04225."4" .3" =390X0/30X04225."3" ."
4" =50/440X04225."3" =390X0/70X04225."3" =70/3;0X04225."3" =430/4;0X04226."3" =;0X0/60X04228."3" =
460X0/450X04228."3" *x-g [RV+0]460X04228."3" *UY+0]Egmg o "5:"gz0

Gymnophora nigripennis"Uej o kv|.":3;48

Rcngctmvmk "ftwj"fqwfl|p^a o |"Gxtqr{"F^anp²jq"x ejqfw."Mco cvm{"c" flp{0}X"Gxtqr "ug"
pcej^a |fl|x|^aep "pc"xnm ej"o flvgej"x"nkuvpcv ej"cuo fl-gp ej"ngu fl ej 0"X xql|pgp fl|p^a o 0

Bílý Potok [3b]<380X0/70XK04227."3" *OV+0]3b]<4:0X04225."3" .4" *UY+0]Lgf qX "f n"RT]38<80/4:0
XK04227."6" .3" * [RV+0]Ocn^aUvtcpc"RT"]47<430X0/30XK04224."3" * [RV+0]Qnf kej qX"x"J a fl ej]52c<
370XK04225."3" *UY+0]Egmg o "33"gz0

Gymnophora prescherweberae"Fkupg{."3; ;9

B!

Ftwj"Ig"|p^a o |"v{r qX²u²tkg|"P o gemc"cuqW cup |"F^anp²jq"x ejqfw."qfmwf"jq"rqrucnc"
Okej clnqXumclc*3; ;9+."p{p fl"oncf-"u{ppp{ o w o"G. laciniata"*Okej clnqXumclc."3; ;9+0}X" T"
|c fl"o"|p^a o |"PR"Rqf{|fl"*Oqegm"gv"cn0"4228+0}Dkqnq|kg"pgp fl|p^a o a 0}PqX "ftwj"rtq"hcwPw"
gej 0

Bukovec PR [4a]<480X0/;0XK04225."6" .5" =;0/450XK04225."6" *x-g [RV+0]Ocn^aUvtcpc"RT"]47<
490XK0/80X04224."3" * [RV+0]mqe x t{dpfm]67<30/360XK04224."3" *OV+0]Egmg o "35"gz0

Gymnophora quartomollis"Uej o kv|.":3;42

Gxtqrum "ftwj."x{um{vwl fl"ug"ur fl-g"pgjqlp "x"t |p ej"v{rgej"nkuvpcv ej"cuo fl-gp ej"ngu 0
Lgf qX "f n"RT]38<3" *OV+0]M flqX "xtej"RT"]45<3" *UY+0]Egmg o "4"gz0

Gymnoptera longicostalis"Uej o kv|.":3;55

Gxtqrum "ftwj 0}X{x fl"ug"x"jp fl fgej" o gn^a m ." | gl o "lcmq"hc m wncv kxp fl" rctc |kv"nctgx."gxgp/
vw^anp "rtgf^avt xcl fl gm"pgdq"ucrtq^a i 0}Koc ic"luqW |qt kmqnp fl 0}X" T"ug"pcej^a | fl lgfpqvx "
pc"t |pqtqf ej"uvcpqXk-v fl ej"qf"p flkp"fq"uv gfp fl ej"rqnqj 0

Lgf qX "f n"RT]38<80/4:0XK04227."3" * [RV+0]

Hypocera mordellaria"Hcnn²p."3;45+

Rcngctmvmk "ftwj 0}Koc ic"ug"pcej^a |gl fl"rqo tp "jqlp "x"ngvp fl ej"o u fl fl ej"pc"nkuvgej"mg "c"vvtq/
o "x"nkuvpcv ej"ngu fl ej 0}Dnkfl-fl|r uqd flkXqvc"pgp fl"fqwfl|p^a o."rtxcf r qf qdp "ucrtq^a i 0

Bílý Potok [3a, b]<5" .4" *OV." [RV+0]Bukovec PR [4c]<3" *RV+0] gtpqw{/X"Rqk [8]<3" *OV+0]Horní
cupleg]37<3:" *RV+0]Lgf qX "f n"RT]38<3" .3" *OV+0]Lk gvfp"rqf"DwmqXw]3:<3" *UY+0]M flqX "
vrch PR [23]<3" *UY+0]Ocn^aUvtcpc"RT"]47<7" .4" *OV." [RV+0]Ogcpft{U o f²"RT"]48c<6" *RV+0]
Qnf kej qX"x"J a fl ej]52c<3" *UY+0]Qnf kej qXum²ugfnq]53<3" * [RV+0]Tgl fkeg]5:<3" *UY+0]U o tm]64f."g.<
:" *RV+0]mqe x t{dpfm]67<8" .6" *OV+0]rk a m cUvflqX "xtej"]68<7" *RV+0]Vkej^a fl mc"RR"]69<
4" .4" *OV." [RV+0]U Kyselky [48]<3" *OV+0]Egmg o "93"gz0

Menoziola obscuripes"*Uej o kv|.":3;49+

X|^aep "ftwj"u"gxtqrum o"tq|fl gp fl o 0}r uqd flkXqvc"pgp fl|p^a o." | gl o "rctc |kvqf"o tXgp/
e."r qf qdp "lcmq"r fdw|p "ftwj"}M. schmitzi *Ogpq| |k."3;43+0}X" gum²tgr wdnkeg"lgfpqvx²"
p^ang|{|"Qtnekem ej"jqt"*Oqegm"3; ;9+}c"Rqf{|fl"*Oqegm"gv"cn0"4228+0

gtp^a jqt c [5a]<470X0/360XK04226."3" *OV+0]Tc-gnlpk-v "Lk|gtm{"PRT"]58<450X04227."4" *UY+0]Rybi
nqw m{"RT"]62<4;0X0/320XK04225."3" *OV+0]Egmg o "6"gz0

*Metopina braueri**Uvtqdn."3 : :2+

Gxtqrum "ftwj."x" T"rqo tp "jqlp "pc"nqwm^aej" c"qmtcl{ej"ngu 0"Dkqnqikg"pgp"}|p^a o⁰

Ocn^aUvtcpe"RT"]47_<6" *OV." [RV+0]Poledník [34]<3" *OV+0Te-gnlpk-v "Lk|gt{NPR [37]<3" .7" * [RV+0]Tglfkeg"]5 :_<3" * [RV+0]Egnmg o"34'gzl)

*Metopina oligoneura**Okm."3 ;89+

Ftwj"u" gxtqrum o"tq|_f| gp|o"0Rcv "m"pgljqlp l-f|o"ftwj o" gngfk"Rjqtfcg."qduc |wlg"xgnok" t |pqtqf^aucpqxk-v .d flp "ug"x{um{vwlg"x"qvqx gp ej"pgngup{ej"nqmcnk^aej"x gvp "citqegp>|0" Nctx {"fkl|"x"r f *|lk-v pq"cfllqmqnq"5"222"nctgx"pc"o⁴+. "luqw" h{vqcr tqh^a i p"}pgdq"ur|_g"mqp/ |w o w l"} o kmtqqt i cpku o {"pc"j pkl{e|o"tquvknpp² o" o cvgtk^a nw"Rtguejgt" ("Ygdgt"3 ; ;8+)

Bukovec PR [4a, b]<32" .5" *EHV." [RV.UY+0] gtp^ajqtc"]7c.d<9" .9" *OV." [RV+0]Horní Pertoltice [13]<3" *OV+0Jizerka [19a, b, c]<63" .4:" * [RV.UY+0]Ocn^aUvtcpe"RT"]47_<3 : ; .35:" *OV." [RV." UY+0]Nová louka PR [29]<3" *OV+0]Qnf kejxum²ugfnq"]53.<4;" .35" * [RV+0]Poledník [34]<4" .3" *OV." [RV+0]Te-gnlpk-v "Lk|gtm{"PRT"]58_<:" .;" * [RV+0]Te-gnlpk-v "Lk|gt{"PRT"]59_<89" .5;" *OV." [RV+0]T{d|f"nq m{"RT"]62_<5:" .42" *OV." [RV+0]Ummgpc keg"]63.<3" *UY+0]U o tm"]64c.d.g.<5" .3" *OV." [RV+0]M^aque x't{dpf|m"]67_<4" *OV+0]M^ark^a m" c"Uvtflix "xtej"]68.<35" .8" * [RV+0]Vkej^a f mc"RR" [47]<32" .9" * [RV+0]Zadní kopec [51]<34" .39" * [RV+0]Egnmg o"946'gzl)

*Metopina perpussilla**Ukz."3 :9 :+

Ftwj"u" gxtqrum o"tq|_f| gp|o."x" T"rqo tp "jqlp ."x v-kpqw"pc"nw p|ej"ucpqxk-v|ej" c"qmtc/ l|ej"ngu 0"X xql"pgp"}|p^a o⁰

Te-gnlpk-v "Lk|gt{NPR [37]<450XK0/70XKK04225."3" *OV+0]M^aque x't{dpf|m"]67_<70/390XK04224."3" *OV+0]M^ark^a m" c"Uvtflix "xtej"]68.<70/3;0KZ04225."3" * [RV+0]Zadní kopec [51]<320KZ0/:0Z04224."3" * [RV+0]Egnmg o"6'gzl)

Phalacrotophora berolinensis"Uej v o kv|. "3 ;42

Gxtqrum "ftwj."x" T"d flp 0"Rctc|kvqkf"mwmgnt| p ej"ftwj "unwp² gm"Eqngqrvgtc<"Equeekpg/ mnkfcg+0

M^aque x't{dpf|m"]67_<4" *OV." [RV+0]

*Phalacrotophora fasciata**Hcnn²p."3 :45+

Ftwj"u" gxtqrum o"tq|_f| gp|o."x" gum²"tgrwdnkeg"ug"pcej^a |f|egnmg o"jqlp "qf"pflkp"fq"jqt0" X xql"x"mwmm^aej"t |p ej"ftwj "unwp² gm"Eqngqrvgtc<"Equeekpgmnkfcg+0"

Ogcpftt{"Uo f²"RT"]48c_<3" *OV+0]M^ark^a m" c"Uvtflix "xtej"]68_<3" * [RV+0]Egnmg o"4'gzl)

Phora artifrons"Uej v o kv|. "3 ;42

X|^aep "gxtqrum "ftwj."x" gum²"tgrwdnkeg"pcng|gp"fqwfw"pc"32"nqmcnk^aej"0"X xql"pgp"}|p^a o⁰

gtp^ajqtc [5a]<470XK0/360XK04226."3" *OV+0]Lgfngx "f n"RT"]38_<3;0/520X04227."5" =520X0/380XK04227."3" =380XK0/80XK04227."3" *x-g" [RV+0]Nová louka PR [29]<520KX0/390X04224."4" =390X0/40XK04224."3" *x-g" OV+0]Te-gnlpk-v "Lk|gt{NPR [37]<520KX0/390X04224."3" =390X0/60XK04224."37" =70/390XK04224."34" =390/4:0 XK04224."3" =320/480XK04225."3" *x-g" OV+0]390X0/60XK04224."3" * [RV+0]T{d|f"nq m{"RT"]62_<390/4;0X04225."7" *OV+0]Egnmg o"67'gzl)

*Phora atra**Ogki gp."3 :26+

Jqncmtykem "ftwj"rcv {e|}m"pgljqlp l-f|o"ftwj o"tqfw"Phora0"X{um{vwlg"ug"ur|_g"x"vgrngl-|ej" nqmcnk^aej"0"Kocic"luqw"jgtdkmqnp|. "x xql"pgp"}|p^a o⁰

Mt^aup^aUvfwf"pmc"]43_<3" *UY+0]Ocn^aUvtcpe"RT"]47_<4" *OV+0]Te-gnlpk-v "Lk|gtm{NPR [36]<3" *OV+0]Te-gnlpk-v "Lk|gt{NPR [37]<3" *OV+0]Tglfkeg"]5 :_<4" *GV+0]T{d|f"nq m{"RT"]62_<3" *OV+0]Zlatá Olešnice [52]<3" *OV+0]Egnmg o ;'gzl)

Phora convallium"Uej okv|.":3;4:

Ftwj"rqrupc "|Cnr."|cvf"o"wx^af p "lgp"|"P o gemc."Tcmqwumc." gum²tgrwdnkm{"c"Lcrqpumc"
*Fkupa{"3;;: +0"X" T"d{"ncng|gp|cvf"o"rqw|g"pc"5"nqmcnk^aej<"Oqtexum²M kfl^apm{"t{dpf"m"
X um{"v"v"J tcfeg"Mt^anqx²*Oqegm"3; ; 6+=4" |cej {vkn"x"tqeg"3; ; 4"O"0"Dctv^am"fq"cwvqy"v"
pc"vtcug"J qtum^aMxknfc"ó"Xk o rgtm"*D0"Oqegm"fgv0."pgrwdn0+0"

Lgfnqx "f n"RT"J38.<520XK0/30XK04227.4" =380XK0/80XK04227.3" =80/4:0XK04227.3" *x-g"OV+=3;0/520X04227."
4" =80/4:0XK04227.3" 0"Nová louka PR [29]<390X0/70XK04227.3" *OV+0"U o tm"64g.<420XK04228.3" *UY+0"
Tmque x"t{dpf"m"J67.<520XK0/390X04224.3" *OV+0"Trk^am c"Uvflqx "xtej"J68.<60/390X04225.3" =390X0/30XK04225."
4" =50/440XK04225.3" =420X0/350XK04228.5" *x-g" [RV+0"Egmg o"39"gz0

Phora convergens"Uej okv|.":3;42

X|^aep "gxtqrum "ftwj."fqwf"pcng|gp "xg"uv gfp"|"Gxtqr "P o gemq."Tcmqwumq."Rqnumq."
gum^atgrwdnkmc+."Tm^x2fumw"cx"gxtqrum²"^auvk"Twumc0"\" T"rwdnkmqx^ap"rqrtx²"|Mtw-p ej"jqt"
c"lklfp|ej" gej"*Oqegm"3; ; 4+."rq|f lk"pcng|gp"pc"Oqtex "pc"tc-gnkp-kv"Txglx|"x"J twd²o "Lgug/
p"mw"*Oqegm"3; ; 9+."x"Mtmapq-|ej"cx"Qtnkem ej"jqt^aej"*D0"Oqegm"ni v0."pgrwdn0+0"Dkqnqikg"pgp"|"p^ao^a."
rqfng"fqucxfp|ej"p^ang| "n|g"wuw|qxcv."flg"rtghgtwlg"tc-gnkp²dkqvr {"*v{ thqLn+0

Bukovec PR [4a]<450XK0/70XK04225.4" =70/420XK04225.6" *x-g" [RV+0" gtp"jqtC [5b]<320KZ0/:0Z04225."
3" * [RV+0" gtp"lgtmc"RT [6]<340XK04225.3" *UY+0"Jizerka [19a]<:0XK04225.4" *UY+0" Paseky nad
Jizerou [32]<:0KZ04226.3" *UY+0" Tc-gnkp-kv "Lk|gtm{ NPR [36]<420XK0/50XK04224.6" * [RV+=4:0XK0/390
XK04227.6" *RV." [RV+0" Tc-gnkp-kv "Lk|gtm{ NPR [37]<4:0XK0/320XK04224.3" =320XK0/30XK04224.4" =
480XK0/0XK04225.3" =:0/450XK04225.8" =450XK0/70XK04225.6" *x-g"OV+0" Tglfleg"J5.<70/4:0XK04227."
3" =4:0XK0/380XK04227.5" =380XK0/30KZ04227.6" *x-g"GV+0" T{d"fqw m"RT"J62.<:0/450XK04225.6" "
*OV." [RV+=450XK0/70XK04225.33" =70/420XK04225.5" *x-g"OV+0" Vlej^a "f mc"RR"J69.<360/520XK04226."
3" *OV+0"Egmg o"8;"gz0

Phora dubia * \gwgtuvfv.":3:6:+

Ftwj"lgtq|f|gp"xg"tv v-kp "l|g o"|"Gxtqr {"lgt|p^ao"v²fl"|"Lcrqpumc0"X" T"ug"x {um{vwlg"nqm^anp ."
ur|g"x"ejncfp ej."x"X"=|ej"rqnj^aej." cuvq"pc"tc-gnkp-kv|ej"0"Dkqnqikg"pgp"|"p^ao^a0"

Bukovec PR [4a] <450XK0/70XK04225.4" =70/420XK04225.6" *x-g" [RV+0" gtp"jqtC [5b]<320KZ0/:0Z04225."
3" * [RV+0" gtp"lgtmc"RT [6]<340XK04225.3" *UY+0"Jizerka [19a]<:0XK04225.4" *UY+0" Paseky nad
Jizerou [32]<:0KZ04226.3" *UY+0" Tc-gnkp-kv "Lk|gtm{ NPR [36]<420XK0/50XK04224.6" * [RV+=4:0XK0/390
XK04227.6" *RV." [RV+0" Tc-gnkp-kv "Lk|gtm{ NPR [37]<4:0XK0/320XK04224.3" =320XK0/30XK04224.4" =
480XK0/0XK04225.3" =:0/450XK04225.8" =450XK0/70XK04225.6" *x-g"OV+0" Tglfleg"J5.<70/4:0XK04227."
3" =4:0XK0/380XK04227.5" =380XK0/30KZ04227.6" *x-g"GV+0" T{d"fqw m"RT"J62.<:0/450XK04225.6" "
*OV." [RV+=450XK0/70XK04225.33" =70/420XK04225.5" *x-g"OV+0" Vlej^a "f mc"RR"J69.<360/520XK04226."
3" *OV+0"Egmg o"8;"gz0

Phora edentata"Uej okv|.":3;42

Tq|f|gp"rqfqdp²lcmq"wr gfej|q|jq"ftwj"v*x v-kpc"gxtqrum ej"lgt|p^ao"v²fl"|"Lcrqpumc0"X" T"ug"x {um{vwlg"nqm^anp ."
ur|g"x"ejncfp ej."x"X"=|ej"rqnj^aej." cuvq"pc"tc-gnkp-kv|ej"0"Dkqnqikg"pgp"|"p^ao^a0"

Ogcpft{"Uo f²RT"J48c.<: " *OV."UY+0" Tglfleg"J5.<:4" *GV+0" Vlej^a "f mc"RR"J69.<:4" *OV." [RV+0"
Egmg o"39"gz0

Phora hamata"Uej okv|.":3;49"

X|^aep l-f"ftwj"u"gxtqrum o"tq|f|gp"o"*uv gfp"|"Gxtqrc."Xgnm^aDtkv^apkg."gxtqrum^a"^auv"Twu/
mc+0"Hcwpkuvkem²Afclg|"À|g o"|"T"ujtpwn"Oqegm"3; ; ; +0"Dkqnqikg"pgp"|"p^ao^a."kocic"luqw"
jgtdkmqpf." cup "pc"lc g²fdwgp"cl"mx vgp+pc"nkuvgej"d{nkp"cmg .r gx^aflp "x"nwflp|ej"ngu|ej"
pgdq"x"d gjqx ej"rtquvgej"x"pkfl-|ej"rqnj^aej0

M flqx "xtej"RT"J45.<520XK04226.4" *UY+0" Ogcpft{"Uo f²RT"J48c.<:30X04227.3" *UY+0"Nová louka
PR [29]<520XK0/390X04224.5" *OV+0"Qnf kejqx"x"J^alfej"J52c.<440X04225.3" *UY+0" Tc-gnkp-kv "Lk|gtm{ NPR
[37]<:0/340XK04225.3" *OV+0" Tglfleg"J5.<:3;0/520X04227.3" *GV+0" Egmg o;"gz0

Phora holosericea"Uej o kv|.":3;42

J qnctmvmek "ftwj."rcv f e m jqlp l-f o | "tqfw"Phora⁰ Fquwf"lgfkp "ftwj"tqfw."w"mvgt²jq"lg"
|p^a o"x xql⁰Nctx{"luqw"crjfkqh^a ipf."pcrcfcl"j^anmqvxtq²"o-keg*Lctmwnqx"3;94+0

Bukovec PR [4a, b]<6" *U Y +0" Lgf nqx "f n"RT"j38_<5" * [RV +0" Lkpf kej qxum "o qm cf"RR"j39_<3" *U Y +0"
Mt^aup^a"Uw f^apmc"j43_<3" *U Y +0" M f lq x "xte j"RT"j45_<5" *U Y +0" Nkdgtge/Xguge"j46_<3" *U Y +0" Malá
Uvtepc"RT"j47_<5" *OV." [RV +0" Ogcp f t {"U o f²RT"j48c_<3" *OV +0" Mníšek [27]<6" *U Y +0" Nová louka
PR [29]<3" * [RV +0" Qnf kej j q x "J^a l e j "j52d_<8" *U Y +0" Raspenava [35c]<3" *U Y +0" Tc-gnkp-k-v "Lk|gt{ NPR
[37]<4" *OV +0" Tgl fleg"j5_<6" *GV +0" Rudolfov [39]<3" *U Y +0" rk^a m c Uvtf lq x "xte j"j68_<7" * [RV +0"
Vkej^a " f mc"RR"j69_<8" *OV." [RV +0" Zlatá Olešnice [52]<3" *U Y +0" Egmng o "6:"gzl

Phora horrida"Uej o kv|.":3;42

X|^aep "ftwj"|p^a o | "jqtum ej"nqmcnk v Tcmqwumc."TMx ectumc"*Cnr{+."P o gemc."f^ang|"Rqn/
umc."Oc ctumc"U nqxgpumc"*X{uqm²"Vcvt{+0" \ " gum²"tgrwdnkm{"luqw"|p^a o²"lgp"lgfpqvkx²"
gzgo r n^a g |g"uwfgvum ej"rqjq q f"TMw o cxc."Qtnkem²"jqt{"Mt^ankem "Up flp f m."J twd "Lgugp f m +"
c"Oqtcxumqung|um ej"Dgum{f⁰

Tc-gnkp-k-v "Lk|gt{ NPR [37]<390X0/60XK04224."3" *OV+0

Phora hyperborea"Uej o kv|.":3;49

Gxtqrum{"tq|f gp "ftwj."x" T"pcej^a |gp "v² o "x jtcfp "pc"tc-gnkp-k-v f e j⁰ Fquwf"fqngf lgp"
|g"TMw o c x {"Qtnkem ej"jqt."J twd²jq"lgugp f mw."Oqtcxumqung|um ej"Dgum{f."lgfpqvkx "kpc"unc/
vkp-k-v f e j "c"tc-gnkp-k-v ej"nqmcnk v e j "xpkf-f e j "rqnj e j *Rqf o qmncp{"x"figng|p ej"jqt^a e j."Xkfn^a m"
x" gum² o "t^alk"crqf+0"Dkqnq i kg"pgp f |p^a o^a0

Bílý Potok [3a]<3" *U Y +0 **Bukovec PR [4a, b]**<7" *U Y +0" gtp^a j qtc [5a]<8" *OV."U Y +0" Lkpf kej qxum "
o qm cf"RR"j39_<3" *U Y +0" Ocn^a "Uvtepc"RT"j47_<8" *OV." [RV."U Y +0" Ogcp f t {"U o f²RT"j48c_<5" *OV."
U Y +0" Nová louka PR [29]<3" *OV +0" Poledník [34]<3" * [RV +0" Tc-gnkp-k-v "Lk|gtm{ NPR [36]<8" *U Y +0"
Tc-gnkp-k-v "Lk|gt{ NPR [37]<46" *OV." [RV."U Y +0" T { d f h q w m {"RT"j62_<38" *OV." [RV +0" rk^a m c Uvtf lq x "
vrch [46]<3" * [RV +0" Vkej^a " f mc"RR"j69_<:" *OV." [RV +0" Egmng o "9:"gzl

Phora indivisa"Uej o kv|.":3;6:

Mtq o " T"lg"x um{v"rwdnkmqx^ap"rqw|g|"Tcmqwumc" c Lcrqpumc⁰X" T"lg"|p^a o "lgp|"p mq/
nkmc"p^ang| " | "tc-gnkp-k- "x"Oqtcxumqung|um ej"Dgum{fgej" c"Qtnkem ej"jqt^a e j *Oqegm"3; ;9+0"
Dkqnq i kg"pgp f |p^a o^a0

Dgf kej qx"j4_<420XKK0/50XKK04224."3" * [RV +0" Bukovec PR [4c]<4: 0XKK0/390KZ04226."3" *RV +0" Lgf nqx "f n"RT"
[16]<440XKK0/430XKK04227."7" * [RV +=:4: 0XKK0/430XKK04227."5" *OV +0" Tc-gnkp-k-v "Lk|gt{ NPR [37]<30/360
XKK04224."3" *OV +=:70/340XKK04225."3" * [RV +0" T { d f h q w m {"RT"j62_<: 0/450XKK04225."3" =:450XKK0/70XKK04225."
4" =:70/420XKK04225."3" *x-g"OV +0" U o tm"j64e_<460XKK0/450KZ04228."3" * [RV +=: [42e]<350XKK0/50XKK04228."
3" * [RV +0" rk^a m c Uvtf lq x "xte j"j68_<420XKK04225."3" *U Y +=:90/420XKK04225."4" =:420XKK0/70XKK04225."3" =:
50/390XKK04225."4" *x-g" [RV +0" U Kyselky [48]<460XKK0/450KZ04228."3" * [RV +=:460XKK0/320KZ04228."3" *OV +0"
Zadní kopec [51]<4: 0XKK0/360XKK04224."3" * [RV +0" Egmng o "49"gzl

*Phora obscura**\ gwgtwgf v."3:6:+

X|^aep "gxtqrum "ftwj."x" T"pcng|gp "rqw|g"pc"32"nqmcnk v^a e j."r gx^a flp "pc"ngup f e j"uvcpqkx-/
f e j."cng" k pc"tc-gnkp-k-v f e j *Ej cnwrum^aunc .Um f vgm+0"Dkqnq i kg"pgp f |p^a o^a0

Bukovec PR [4b]<320/480XK04225."3" *EHV +0" Nová louka PR [29]<390X0/70XK04224."3" *OV +0" Egmng o "4"gzl

Phora penicillata"Uej o kv|.":3;42

X|^aep "gxtqrum "ftwj⁰ \ " gum²"tgrwdnkm{"lg" rwdnkmqx^ap"x um{v|"Oqtcx{"dg|"wxg f gp"
mqpm²vp f nqmcnk v {"*Uej o kv|"3;4: .3;62+0"Rtxp f o "cwvqtg o "pcng|gp|cv f o "rqw|g"x"Qtnkem ej"

jqt^aej^{*}Qoqem3; : 4+c^{*}Mtmqpp-^{fej}*Xgnm^a—rc^óR p^{mcx} fl^{xtej}.pgrwdn0+0^{Ko}cic^d{nc^{ud}ft^apc^{pc}qm^qfl^{fej} ok fl^{mqxk} ej^{*}D0^Qoqem.pgrwdn0+.x xql^{ppg}fl^lp^a o 0

Bukovec PR [4b]<90Xk04226."3" *U Y +0⁰

Phora pubipes Uej o kv | .3; 42

Ctg^an^{tq}l-^{fl}gp^{fl}|c^jtpwl^gGxtqrw."Lcrqumq."Oqpiqnumq^cqtkgp^vnp^{fl}q^{dncuv0}V{thq^lnp^{fl}ftw^j."x["]T^xuwfgvum ej^rqjq^{fej}ó^{pc}h^{qmcnk}v^aej^{pc}TMwocx["]r^{qo}tp["]j^{qlp}."f^ang^l|p^a o |["]Mtw-/^pej^cQ^{tnkem}ej^jqt.Mt^ankem²jq^{Up}fl^{fl}mw."Tglx^{fl}|w^cUm fl^{mw}x^Jtw²o["]Lgugp^{fl}mw."tc-g^{nkpk}-v["]xg^{Xn} fl^{tqmnk}x["]PRT["]Cft-rc-umq/vgrnkem²um^an{["]*D0^Qoqemⁿi^{v0}.pgrwdn0+0^Xxqlqx^auv^afk^cc["]dnkfl-^{fl}dkqpp^okg^pgluq^w|p^a o 20

Dgf kejqx[4]<3" * [RV+0^{Bukovec PR [4a]}<7" * [RV+0^{gtp^a}j^{qtc} [5a, b]<5" *OV." [RV+0^{Horní Pertol/}tice [13]<3" *OV+0^{Lgf^{nqx}} f n^{RT}][38.<32" *OV." [RV+0^{Oca^a}U^{vtcpc}RT^{fl}][47.<6" *OV+0^{Nová louka PR [29]}<44" *OV+0^{Tc-g^{nkpk}-v} Lk|gtm{ NPR [36]<37" *OV."RV." [RV+0^{Tc-g^{nkpk}-v} Lk|gt{ NPR [37]<73" *OV." [RV+0^{Rudolfo}v [39]<3" *U Y +0^T{d^{fl}nq^w m{RT^{fl}][62.<36" *OV." [RV+0^{Vke}j^a fl mc^{RR}][69.<4" *OV+0^{U Kyselky [48]}<3" *OV+0^{Zadní kopec [51]}<3" * [RV+0^{Egmg}o "353"gzl

Phora stictica O^{gk}i^gp."3: 52

Ftwj^lg^{tq}l-^{fl}gp^xrcngctm^{vkem}2^qdncuv^kc^xUg^{xgtp}fl^cLk^{flp}fl^Cogtkeg⁰X^Gxtqr["]rcv^{fl}m^{pgld}fl^pl/⁻fl^o|^auvwre^otq^{fw}X^{um}{vwl^gug^{ur}fl-g^{xg}uv^gfp^{fej}c^x{-^{fej}r^{qnqj}a^{ej}."cuv^qxg^uo^{tmqx}ej["]ng^{fl}ej⁰\^ruq^dx^{flkx}{nct^{gx}pp^{fl}|p^a o 0^{Ko}cic^x{jng^fa^{xcl}fl^{mx}v{."cuv^qluq^wx["]o^{cuqx}2^o"o^{pqfluvx}fl^{pc}qm^qfl^{fej}"gng^{fk}C^rkegcgcg⁰

Dgf kejqx[4.<54" * [RV+0^{Bukovec PR [4a, b, c]}<4; 6" *EHV."RV."R [T." [RV+0^{gtp^a}j^{qtc}][7d.<8" * [RV+0^{Jatp}fl^{Nw cp} [12]<8" * [RV+0^{Lgf^{nqx}} f n^{RT}][38.<9" *OV." [RV+0^{Jizerka [19b]}<3" *U Y +0^{Kristiánov [22]}<:" *U Y +0^{Oca^a}U^{vtcpc}RT^{fl}][47.<46" *OV." [RV."U Y +0^{Nová louka PR [29]}<34" *OV+0^{Poledník [34]}<:" * [RV+0^{Tc-g^{nkpk}-v} Lk|gtm{PRT^{fl}][58.<372" *OV."RV." [RV+0^{Tc-g^{nkpk}-v} Lk|gt{PRT^{fl}][59.<365" *OV." [RV+0^{Tglf}keg^{fl}][5:<33" *GV." [RV+0^{Rudolfo}v [39]<4" *U Y +0^T{d^{fl}nq^w m{RT^{fl}][62.<35;" *OV." [RV+0^{Ummgp}c keg^{fl}][63.<3" *U Y +0^{Uo tm}][64g.<4" * [RV+0^{rk} a^mc^Uvtfl^{qx} x^{tej}][68.<3" * [RV+0^{Tichá} fl mc^{RR}][69.<4" * [RV+0^{Zadní kopec [51]}<3" * [RV+0^{Egmg}o "64"gzl

Phora tincta Uej o kv | .3; 42

Ftwj^ugxtqrum^otq^l-^{fl}gp^{fl}o⁰X^{um}{vwl^gug^dfl^px^{ngu}fl^{ej}t[|]p²jq^v{rw^ón^{ku}vpcv^{ej}."u^ofl/⁻gp^{ej}k^{lgjnk}pcv^{ej}0^Xxql^{ppg}fl^lp^a o ."rtcx^fr^{qf}qdp["]ug^lg^{fp}a^qucrtq^haⁱc⁰Ko^cic["]luq^wl^qtkmq^{np}fl["]x^{um}{vwl^{fl}ug["]cuv^qo^{cuqx}pc^{mx}v^{gpuvx}fl^{fej}ok fl^{mqxk}ej^{*}C^rkegcgcg⁰

Dgf kejqx[4.<3" * [RV+0^{Bílý Potok [3b]}<5" *OV." [RV+0^{Bukovec PR [4a, b]}<42" * [RV."U Y +0^{Hor/}ní Polubný [14]<4" *U Y +0^{Lgf^{nqx}} f n^{RT}][38.<482" *OV." [RV+0^{Oca^a}U^{vtcpc}RT^{fl}][47.<8" *OV+0^{Ogcpft}{Uo f²RT^{fl}][48c.<7" *OV."U Y +0^{Nová louka PR [29]}<4:" *OV." [RV+0^{Qnf} kejq^{xum}2^{ug}fn^q][53.<4" * [RV+0^{Paseky nad Jizerou [32]}<3" *U Y +0^{Poledník [34]}<8" *OV." [RV+0^{Tc-g^{nkpk}-v} Lk|gtm{PRT^{fl}][36]<9" *OV." [RV."U Y +0^{Tc-g^{nkpk}-v} Lk|gt{PRT^{fl}][59.<4:" *OV." [RV+0^{Tglf}keg^{fl}][5:<5" * [RV."U Y +0^{Rudolfo}v [39]<:" *U Y +0^T{d^{fl}nq^w m{RT^{fl}][62.<9" *OV." [RV+0^{Uo tm}][64e.g.<9" *OV." [RV+0^{que} x^{rybník [45]}<6" *OV+0^{rk} a^mc^Uvtfl^{qx} x^{tej}][68.<53" *RV." [RV."U Y +0^{Vke}j^a fl mc^{RR}][69.<8" * [RV+0^{Egmg}o "658"gzl

Plectanocnema nudipes *Dgemgt."3; 23+

Gxtqrum["]ftw^j.x["]T^{pgj}qlp["]pc^xn^{xm}ej["]n^{qwm}a^{ej}c^xngu^{fl}ej["]q^fp^{fl}fl^pf^q: 22["]o^{p0}o⁰X^{xql}pp^{fl}|p^a o 0

TMque x^t{d^{fl}m^{fl}][67.<470KX04225."3" *U Y +=520KX0/390X04224."4" *OV+0^{Vke}j^a fl mc^{RR}][69.<80X0/40XK04226."3" *OV+0^{Egmg}o "6"gzl

*Pseudacteon formicarium**Xgttcmm."3:99+

Gxtqrum{ "tq|-f gp "ftwj."rctc|kvqkf" f npke"o tctxgpe "tqfw"Formica" c"Creinatogaster"X" gum2"
tgrwdnkeg"ug"x{um{vwlg"qf"p"flkp"rq"jqtum2"rqnqj{."pc"nqwm"aej" k"x"ngu"fej"0"
gtp"ajqtc [5b]<"360XKKK0/320KZ04224."3" * [RV+0" Tc-gnkp-k-v "Lk|gt{ NPR [37]<70/340XKKK04225."3" *OV+0"
Egmg o"4"gzl

*Spiniphora bergenstammi**Okm."3:86+

Rtxf rqqdp "mqu o qrqnkvp"ftwj*ej {d"À fclg" |g"uwducjctum2" Chtkm{ +."x"Gxtqr "pgld flp l-f"
|"tqfw"0"Nctx{ "luqw"ucrtqh" a ip"u"rtghgtgpe"pgmtqh" a ikg."x{x|gl"l"ug" |gl o 2pc"x" o tvx ej"pgdq"
qfw o f"tcl"e"fej" rnf"fej"0
Jqtp" cupleg"j37_<"3" *RV+0" M flq "xtej"RT"j45_<"3" *RV+0" Ogcpft{ "U o f 2"RT"j48c_<"4" *RV+0"Egmg o"
6"gzl

*Spiniphora dorsalis**Dgemgt."3:23+

Ftwj"u" gxtqrum o" tq|-f gp"o 0"X" gum2"tgrwdnkeg"ug"x{um{vwlg"nqm"np "x"ngu"fej" c"pc"lgkfej"
qmtcl"fej"0"Nctx{ "ug"x{x|gl"l"x" o tvx ej" rnf"fej"**Helix pomatia*+0
Bukovec PR [4a]<"480XK0/;0XKK04225."3" =";0/450XKK04225."3" =450XKK0/70XKK04225."3" =490KZ0/380Z04225."3" ="
70/420XKK04227."3" *x-g [RV+0" Tglfleg"j5_<"4:0XKK0/380XKK04227."3" * [RV+0"mrk "a m c"Uvflqx "xtej"j68_<
490X0/430XK04226."4" *RV+0"Egmg o":gzl

*Spiniphora maculata**Ogki gp."3:52+

Gxtqrum "ftwj"u" cup "lctp"cmvkvqkw" koci"0"Ucrtqh" a i."x{x|gl"l"e"ug"x" o tvx ej" rnf"fej"0"X" T"
lgfpqvnkx2"p"ang|{ "x"p"flkpp ej" qdncuvejg." |gl o 2pc" xg"ux vn ej"nkuvpcv ej"ngu"fej"u"x um{vg o"
wnkuvpcv ej" rnf " **Helix* ur r0, *Cepaea* ur r0+0"
Bukovec PR [4a]<"480KX0/70X04225."7" .3" =70/380X04225."3" .3" *x-g [RV+=[4b]<70/380X04225."3" *R [T+0"
Frýdlant [9]<440X04228."3" *U Y+0"Xt cvkmxekg"pcf" Pkuqw [50]<450KKK0/380KX04227."3" * [RV+0"Egmg o"33"gzl

*Stichilus coronatus**Dgemgt."3:23+

Xgn o k"x" |^ep "ftwj" |p^a o " |Tcmqwumc."Rqnumc" c" T0" \ "À |g o" gum2"tgrwdnkm{ "gzkuwv"l" fquwf"
lgp" fxc"p"ang|{ " *Oqegm"3; ; 7="Oqegm"gv"cn0"4228+0"X xql"pgp" |p^a o 0
Frýdlant [9]<50XKKK04226."3" *U Y+0

*Triphleba antricola**Uej okv|."3:3:+

Ftwj"u" gxtqrum o" tq|-f gp"o ."pcng|gp" k" x" l gum{pp"fej" u{uv2 o gej" pc" Mt{ o w" c" Mxmc |g"
*D0" Oqegm." pgrwdn0+0" Mxgtpkmp"ftwj." pgl cuv lk"lg" |c|pc o gp"p" rq gvp "x um{v" koci"
x" l gum{p"fej." mfg" flkg"ucrtqh" a ip "pc"vtuw"pgvqr t 0"X" |^ep lk" d x" a" |cuvklgp" ok o q" l gum{p ."
|gl o 2pc" xg" xnjm ej" ngu"fej" *Fkupg" {3; ; 9="Rtguejgt" ("Ygdgt"3; ; 8+0"Rtxp"p"ang|{ " |" gej" d{n"
rwdnkmax" p{ " |" qmql" D"nkp{ "x"ugxgtq| " a rcfp"fej" gej" a ej" *Oqegm" ("Dctv"am"4222+." |" Oqtcx{ "
| "PR"Rqf {l" *Oqegm"gv"cn0"4228+0
Lgfngx " f n"RT"j38_<"520X0/380XK04227."3" * [RV+0"U o tm"j64c_<"390X0/40XK04228."3" * [RV+0"mrk "a m c"Uvflqx "
vrch [46]<:"KX0/60X04228."4" * [RV+0"Egmg o"6"gzl

*Triphleba autumnalis**Dgemgt."3:23+

Ftwj"u" gxtqrum o" tq|-f gp"o" Ru{ej tq"l"np"l." | gl o "pgmtqh" a ip"ftwj." koci" c"ug" pcej" a |gl"
qf"mqpeg" |lp" c"q" |c "vmw" fwdpc" x"ngu"fej" k"pc"nw p"fej" uvcpqkx-v"fej"0"
Bukovec PR [4a]<"3:0Z0/4;0ZK04228."3" *RV+0" M flq "xtej"RT"j45_<"520Z04226."3" .4" *UY+0"Egmg o"6"gzl

*Triphleba bicornuta**Uvtqdn."3;32+

Gxtqrum "ftwj0Ucrtqh*a* i."pgl cuv l-*l*"luqw"p^ang|{"pc"jqtum ej"xnjm ej"cf|tc-gnkp-vp^fej"lvcpq/xk-v^fej^{pcr} 0"Jqtum^aMxknfc"pcTMwocx .Ncdum "f n"x"Mtmppq^fej."PRT"Dwmc mc"x"Qtnkem ej"jqt^aej."Tglx^f|"x"J twd² o"Lgugp^fmw.TMvtdum²"rnguq^{xg}X{uqm ej"Vcvt^aej+0

Dgf kejqx"J4.<3" * [RV+0]Bukovec PR [4a, b]<37" *R [T." [RV+0] gtp^ajqtc [5a, b]<3" .3" *OV." [RV+0] Jcteqxum "j dgy"J32.<5" .3" *U Y +0]Lgfⁿqx "f n"RT"J38.<4" *OV+0]Nová louka PR [29]<3" *OV+0] Poledník [34]<5" *OV." [RV+0]Tc-gnkp-v "Lk|gtm{ NPR [36]<7" .4" * [RV+0]Tc-gnkp-v "Lk|gt{ NPR [37]<42" .4" *OV." [RV+0]T{d^fngw m{"RT"J62.<9" *OV." [RV+0]U o tm"J64c.<5" .3" *U Y +0]Uv gfp^f Lk|gtum "j dgy"J65.<3" *RV+0]M^{rk} a m c"Uvtflqx "xtej"J68.<42" .4" * [RV+0]U Kyselky [48]<3" * [RV+0] Zadní kopec [51]<3" * [RV+0]Egmg o";5"gzl

*Triphleba citreiformis**Dgemgt."3;23+

Gxtqrum{"tq|-^fgp ." | gl o "v{thq^Lnp^fftwj0"X" T"rwdnkmqx^ap{"p^ang|{"|g"-wocxum ej"tc-g/nkpk- .Mtw-p ej"jqt"Oqtcxumqung|um ej"Dgum{f"*Oqegm"3; ;7+0

Bukovec PR [4a]< ;0/450XKK0/4225."3" =450XKK0/70XKK0/4225."38" =70/420XKK0/4225."32" =420XKK0/40KZ/04225."3" *x-g" [RV+; [4b]<450XKK0/70XKK0/4225."3" =70/420XKK0/4225."3" *x-g"EHV+0]Tc-gnkp-v "Lk|gtm{ NPR [36]<4;0XKK0/360KZ/04224."3" * [RV+;390XKK0/30KZ/04227."3" *OV+0]Tc-gnkp-v "Lk|gt{ NPR [37]<80/3;0XKK0/4224."3" * [RV+;340/420XKK0/4225."7" *OV." [RV+0]Egmg o"64"gzl

Triphleba collini"Uej okv|.3;65"

B!

\cv^fo"gzkuvw1^fl^fgp^fÁfclg|"Dtkvum ej"qvvtqx ."qfmwf"d{n"ftwj"rqru^ap.c"| " gum²tgrwdnkm{"|PR" Rqf{|^f*Oqegm"gv"cn0"4228+0" \ r uqd^fflkxqc"pgp^f|p^a o 0^p"p^ang|"|"Lk|gtum ej"jqt^r gfvucxwlg" rtxp^fÁfcl"q"x um{vw"ftwjw"pc"À|g o^f gej0

Bukovec PR [4b]:490X0/4222."3" *U Y +0

*Triphleba disparinervis**Uej okv|.3;69+

CZ!

Ftwj"lg"fquwf"|p^a o"rqw|g"|"p mqnkmc"gzg o rn^a " |"p o gem ej"ctcmqum ej"Cnr0"Dkppq okg" pg|p^a o^a0^pq^x "ftwj"rtq2tgrwdnkm{0

Qnf kejqxum²ugfng"J53.<390XKK0/40KZ/04225."5" =40/3;0KZ/04225."3" * [RV+0]T{d^fngw m{"RT"J62.<340/420XKK0/4225."3" *OV+;420XKK0/40KZ/04225."3" * [RV+0]Egmg o"8"gzl

*Triphleba distinguenda**Uvtqdn."3; ;4+

Gxtqrum "ftwj."x" T"d flp 0"Nctx{"luqw"lqqcrtqh^a i p^f."x{x^flg^fug"pcr 0"pc"o tvxqm^aej" ftqdp ej"qdtcvnqxe 0^kocic"ug"pcej^a |g^f|pc"mx vgej."cng^v2fl"x"pqt^aej"ftqdp ej"ucxe *mtvm ." o {-^f+0

Bílý Potok [3a]<3" * [RV+0]Bukovec PR [4c]<5" *RV+0]Playv [33]<3" *U Y +0]Egmg o"7"gzl

*Triphleba dudai**Uej okv|.3;3;4+

Ftwj"u"gxtqrum o"tq|-^fgp^fo0"X" T"pgp^fx|^aep ."pcej^a|^fug"x"t |p ej"xnj ^fej"jcdkvcvgej" *nqwm{"nwf^fng^u"{crqf+0]Pgmtqh^a i."x xql"rtqdf^j"pc"o tvxqm^aej"ftqdp ej"qdtcvnqxe "k^dg|/qdtcvn ej"*mgdng+0

Tglfleg"J5.<3" *GV+0]M^{rk} a m c"Uvtflqx "xtej"J68.<3" *RV+0]Egmg o"4"gzl

Triphleba excisa *Nwpfdgem."3;43+

Gxtqrum "ftwj."x" T"rqrtx²"pcng|gp"x"Jctfek"Mt^anx²"xg" |d{ve^fej"qti cpkem²jq^f fgvtkw" |"x gn^fej"Àn *Oqegm"3; ;6+0]Ucrtqh^a i p^fnctx{"flk^f"x"tq|mm^a fcl^fej"ug"qti cpkem ej" |d{ve^fej" t |p²jq^fejctcmvgtw."kocic"pcng|gpc"x" |k o p^fej"o u^fej"ej"x"pq g^{nk}-m{"*D0"Oqegm."pgrwdn0+0

J cteqxm "j dgv"]32_<320Z04228/350KX04229."6" .4" *RV+0"Raspenava [35b]<480Z04228/520KX04229."3" "
*RV+0"U o tm"]64d_<450KZ04228/50X04229."3" *RV+0"U o tm"]64g_<450KZ0/30X04228."5" *RV+0"™rk "m c"Uvflqx "
vrch [46]<40Z04226/440Z04227."3" .4" =4:0XKKK0/70Z04227."3" *x-g"RV+0"Egmg o "37"gz0

*Triphleba gracilis** Yqqf."3;29+

Ftwj"lg"tq|_f gp"x" | a rcfp|."uv gfp|c"ugxgtp|Gxtqr 0"X" T"xgnok"x|ep "x"jqtum ej"ngu|ej"
c"|gl o 2pc"pc"tc-gnkp-k-v"ej"o"p"ang|{"pc"™w o cx .x"Qtnkem ej"jqta"ej."J twd2 o "Lgugp|mw*Oqegm"
3;;9+"c"pc"Mt^nkem2 o "Up flp|mw*™D0"Oqegm."pgrwdn0+0"

Bukovec PR [4a]<70/420XKKK04225."3" =420XKKK0/40KZ04225."3" *x-g" [RV+= [4b]<70/420XKKK04225."3" =420XKKK0/40
KZ04225."5" =40/490KZ04225."4" *x-g"R [T+=-[4c]<4:0XKKK0/390KZ04226."3" *RV+0" gtp"jqt c [5b]<320KZ0/:"0
Z04225."3" .3" * [RV+0"Lfllqx "f n"RT"]38_<30/440KZ04227."3" * [RV+0"™{d|nqw m{"RT"]62_<70/420XKKK04225."
3" *OV+=340/420XKKK04225."3" * [RV+0"Egmg o "36"gz0"

*Triphleba hyalinata** Ogki gp."3;52+

Gxtqrum "ftwj0"Ucrqha i."x xql"d{n" |c|pc o gp"p"pc"mcf"axgtgej"qdtcvqxe ."x gvp "rqj dg/
p ej"nkfum ej" o tvxqn"x"tcmx|ej"*Uej o kv|"3;65+0"Kocic"ug"x|um {vw|l"x"ejncfp ej" o u|e|ej"
tqmw*"nkuvqrci"o"fdwgp+."fllq|r gx"flp "grkigkem{"c"mexgtpkmpq *p"ang|{"|"lgum{p|."uwv|c"pqt"
mt^n|j "c"nk-gm+0

Bily Potok [3c]<450KZ04228/520KX04229."5" .33" *RV+0"™ flllqx "xtej"RT"]45_<480Z04228/520KX04229."3" .
4" *RV+0"Raspenava [35b]<480Z04228/520KX04229."4" *RV+0"™rk "m c"Uvflqx "xtej"]68_<460KZ04228."3" "
***U Y +=450KZ04228/520KX04229."4" *RV+0"X"rgpp "xtej"RT"]6;_<480Z04228/520KX04229."5" .44" *RV+0"**
Egmg o "69"gz0

Triphleba inaequalis"Uej o kv|."3;65

X|ep "ftwj"u"gxtqrum o"tq|_f gp|o0"Kocic"ug"pcej" a |gl|x"rqf|k o p|ej" c|k o p|ej" o u|e|ej0"
Qlgfkp n" rwdnkqxcp" a"fcvc"pc|pc w|l|"flg"lfg" | gl o "q"ucrtqha ic"*Uej o kv|"3;65+."dnkf-|dkq/
pq o kg"x-cm"pgp| |p" a" a0"X" T"lg" |p" a" |"p mqnkmc"nqmcnk|" gej."rwdnkqxcp" d{n" rqw|g"
p"ang|{"|"RT"Dwm{"w"X|uqm2"j"q"Ejxqlpc"*Oqegm"3;;+0"

™rk "m c"Uvflqx "xtej"]68_<3;0KZ0/40Z04225."4" * [RV+0"

*Triphleba intermedia** Ocncqej."3;2:+

Gxtqrum "ftwj0"X" T"lg"urqtcfkem{"pcej" a |gp"x" cup "lctp|o"qdfqd|*mqppe"KKK0"cf|c a"vgm"
X0+."r gx"flp "x"lgjnk pcv ej"ngu|ej" c"pc"lglkej"qmtcl|ej0"Dkqnqikg"pgp| |p" a" a."rq gvp "x um{v"
uc o e "d{n" |c|pc o gp"p"pc"mxgqwe|xt d "l|x *Salix caprea"*™D0"Oqegm."pgrwdn0+0

Bukovec PR [4b]<70X04222."33" *U Y +0"Egmg o "33"gz0

*Triphleba lugubris** Ogki gp."3;52+

\p" a" o "ctg"n"tq|_f gp| |c|jtpwlg"Gxtqrw."Ugxgtp|C o gtkmw"c"qtkgvp"np|qdnucv0"Ucrqha i."x xql"
x"jp|f|fgej"xqu"tqfw"Vespula, Dolichovespula" c"Vespa."mfg d{n" {"pcng|gp{"nctx{"k"o c i c 0"X" T"
egmg o "jqlp ."k"mf|fl*x|x|jngfg o "mg" | r uqdw"flkxqvc" xg"xqu|ej"jp|f|fgej+" o"nq"ud|tcp "ftwj0"

Jizerka [19b]<40/70KZ04224."3" * [RV+0"Ocn"Uvtepc"RT"]47_<450XKK0/70XKKK04225."3" * [RV+0"Nová louka PR
[29]<320XKK0/30XKKK04224."3" *OV+0"™c-gnkp-k-v "lk|gt| NPR [37]<320XKK0/30XKKK04224."3" =360/490XKKK04224."3" =
490XKKK0/320KZ04224."3" *x-g"OV+0"™rk "m c"Uvflqx "xtej"]68_<90/420XKK04225."3" * [RV+0"Egmg o "9"gz0

*Triphleba luteifemorata** Yqqf."3;28+

X|ep "gxtqrum "ftwj0"X|um {vwlg"ug"r gx"flp "x" |cejqxcn ej"ngup|ej"nqmcnkva"ej"*pcr 0"Dctv"m"
3;;:="Oqegm"3;;+0"\r uqd"flkxqvc"pgp|fquvcvg p "|p" a" .lfg"rtcx" r qf qdp "q"ucrtqha ic"pgdq"
pgmtqha ic"o"kocic"d{nc"pcng|gpc"pcr 0"pc" o tvx ej"jng o flf|ej" c"qdtcvqxe|ej"*Uej o kv|"3;65+0"

Bukovec PR [4a]<490KZ0/380Z04225."5" * [RV+=["**4b**"]<420XKKK0/40KZ04225."3" =40/490KZ04225."3" *x-g"EHV+0"
Jizerka [19b]<40/70KZ04224."5" * [RV+0"**Tc-gnkp**-v "Lk|gt{ **NPR [36]**<50/80XKKK04224."3" =4;0XKKK0/360KZ04224."
8" *x-g" [RV+0"**Tc-gnkp**-v "Lk|gt{ **NPR [37]**<80/4;0XKKK04224."3" * [RV+=490XKKK0/320KZ04224."4" =320/480
KZ04224."3" .3" *x-g"OV+0"U o tm]64e<460XKKK0/450KZ04228."4" * [RV+0"™rk "m c"Uvflq "xtej"]68.<390XKKK0/70
KZ04225."4" =70/3;0KZ04225."5" .3" =3;0KZ0/40Z04225."5" .3" *x-g" [RV+0"Vkej" " f mc"RR"]69.<360/520
XKK04226."3" *OV+0"Egmg o"55"gz0

*Triphleba minuta**Hcdtkekwu."39:9+

Gxtqrum "ftwj"|p^a o "rqw|g|"qlgfkp n ej"p^ang| 0"Pc^À|g o" T"pcng|gp|cv"o"pc⁵"hqmcnkv^aej"
*Oqegm"3;;9."3;;;"=Oqegm"gv"cn0"4228+0"X xq|rtqd|j^ax"jqwd^aej"**Agaricus*ur r0."*Gymnopilus*
ur r0+*Uej o kv|"3;65-"Eqn|gt"3;74."3;76+0"\p^ang| "rtxp|j q"cwvqtc"n|g"uw|qxcv."fig"lf g"q"ftwj"
x^a|cp "pc"|cejqxcn²"rqtquv|"ug"|cuqwrp"o"rcfn ej"uvtq o "c"dqjcvqw"o {mq}t>wtw0

Bukovec PR [4c]<4:0XKKK0/390KZ04226."3" *RV+0"

*Triphleba nudipalpis**Dgemgt."3;23+

Ftwj"u" gxtqrum o "tq|-|gp"o" Qdgp "cpvtqrqvngtccp"p" cñ"u"pcpvtqrp"ftwj" x {um {vw|f"e"
ug"qf"p"flkp"fq"rqfjqtum ej"qdcu"v"0"Pgurgeknk|qxcp "rqn|ucr tqh^ai" *x xql"pcr 0"x"jpk|f"e"j"
tquwkp^aej."pc"mcf^axgtgej" o cn ej"qdtcvnqxe "crqf0+0"

™qne x"t {dp"m"]67.<320XKK0/30XKKK04224."3" *OV+0"

*Triphleba opaca**Ogkigp."3:52+

Xg"uv gfp" Gxtqr "jqlp "ftwj"u"rcngctmvmkem o"ctg^ang o 0"Nctx {"luqw"ucrtq^ai p"l."k o c i c"ru{ej/
tqLnp"l."x um {v"qf"KK0"fq"KX0"*xg"x {--|ej"rqnj^aej"fq"rqnqxp { "X0+0"

Bukovec PR [4a]<480KX0/70X04225."6" * [RV+0"lgfnq "f n"RT"]38.<30XK04228/3;0X04229."4" *RV+0"Na Kobyle
[28]<3;0KX0/3;0X04229."3" *RV+0"**Tc-gnkp**-v "Lk|gt{ **NPR [37]**<520KX0/390X04224."3" *OV+0"™qne x"t {dp"m"]67.<
520KX0/390X04224."8" .3" *OV+0"Xtcvkncxkeg"pc" Pkuw [50]<450KXK0/380KX04227."3" * [RV+0"Egmg o"38"gz0

*Triphleba papillata**Ykpicvg."3;28+

Gxtqrum "ejncfpq o knp "pgmtq^ai p"l"ftwj0" P^ang| { " | " T"rqej^a|gl" xgu o u" |xnjm ej"ngup"ej"
dkqvr ."k o c i c"luqw"ud"t^apc"qf"rqnqxp { "KKK0"fq" |c^avmw"X0."x"jqtum ej"rqnj^aej"rq|f lk"
*XKK0+0" Pc"unqflgp"uwf qxcp²jq" o cvgtk^anw"ug"rtqlgxwlg"x tc|p "ugngmvp"p"ghgm" o cuqx ej"
rcu"v"™rq gvp "x um {v"c"r gxcjc"ucok e+0"

Bílý Potok [3b, c]<7" .3" *OV."RV+0" **Bukovec PR [4a, b]**<3" .3" *EHV."UY+0" **Frydlant [9]**<3" *UY+0
**Jcteqxum "j dgw"]32.<4" *RV+0"lgfnq "f n"RT"]38.<6" *OV+0"™flq "xtej"RT"]45.<34" .;" *RV+0"
Ocn^a"Uvtcpc"RT"]47.<33" .6" *OV."RV+0" **Ogpeft**{ "U o f²"RT"]48c.<4" *OV+0" **Nová louka PR [29]**<
5" .5" *OV+0"Qnf kejqx"x"J^a|f"ej"]52c.<3" *UY+0"Qnf kejqxum²"ugfnq"]53.<3" * [RV+0" **Poledník [34]**<
:" *OV." [RV+0" **Raspenava [35b]**<5" .46" *RV+0"**Tc-gnkp**-v "Lk|gt { **NPR [37]**<8" .3" *OV+0" **Tglfkeg**
[38]<3" *UY+0" **T**{d"nqw m{"RT"]62.<7" .3" *OV." [RV+0"U o tm]64c.<4" * [RV+0"™qne x"t {dp"m"]67.<3" "
*OV+0"™rk "m c"Uvflq "xtej"]68.<4" .8" *RV." [RV+0"Vkej" " f mc"RR"]69.<8" .3" *OV+0"U **Kyselky**
[48]<34" .6" *OV." [RV+0"X^argpp "xtej"RT"]6;.<3" .32" *RV+0"Egmg o"377"gz0**

Triphleba subcompleta"Uej okv|.3;49

Gxtqrum ."rqo tp "x|^aep "ftwj."x xql"pgp"l|p^a o 0"X" T"lgp"p mqnkm"p^ang| "qf"uwgrp"ej"
ngmcnkv^a*PR"Rqf{|l"0"J" dxtcp"m."J tcf cp {"0"RR"D^a "w"qdeg"figjw "pc"Ejnw o gemw+"rq"jqtum²"
ngup"l"rtqquv {"*PRT"Dwmc mc"x"Qtkenm ej"jqt^aej."Oqtexum "mtcu+0

Poledník [34]<470XK0/360XKK04226."3" * [RV+0"™rk "m c"Uvflq "xtej"]68.<50/440XK04225."3" =80/390XKK04226."
3" *x-g" [RV+0"Egmg o"5"gz0

*Triphleba trinervis**Dgemgt."3 ; 23+

Jqncmvmkem "ftwj."xg'uv gfp||Gxtqr "d flp 0'X xql'pgp||p^a o .rtcxf rqqdp ucrtq^a i'pgdq' pgmtq^a i'0'X um{v'qf"Z0'fq"KX0."kocic"luqw"cmvxp||r gx^a flp "x" |kop'ej" o u'e'ej0

Jcte^qxum "j dgy"j32_<330Z04228/350KX04229."3" .3" *RV+0'U o tm]64d_<450KZ04228/50X04229."3" *RV+= [42e]<470KX0/330X04228."3" * [RV+=450KZ0/30Z04228."3" *RV+0'™que x't{dp'm]67_<0/440Z04224."3" *OV+0'™rk "m c'Uvflqx "xtej"]68_<460KZ0/450Z04228." ; " .9" * [RV+0'Zadni kopec [51]<3:0Z04228/390KX04229."3" .3" " *RV+0'Egmg o "46'gz0

Veruanus oldenbergi"Uej o kv|. :3 ; 3 ; "

B!

Gxtqrum "ftwj."p^a o "fquwf"lgp||Hkpumc."P o gemc"Rqnumc*Ygdgt"422 : +0'X" T'd{n'pcng|gp' pc"zgtqvtg o p'ej"nqmcnk^aej" x" PR'Rqf{I||*Oqegm"gv'cn0'4228+0'Rctc|kvqkf" f npke" o tctxgpe 0' Pqx "ftwj"rtq'hcwpw" gej0

T{d'f'hw m{"RT [40]<4:0X0/320X04225."3" *OV+0

Xenotriphleba dentistylata"Dwem."3 ; ; 9"

B!

Fquwf"lg|p^a o q'lgp'p mqnkm'gzg o rn^a 'vqjvq'pgf^axpq'rqrucp²jq'ftwjw0'D{n'rqr^ap|"P o gemc" *Dwem"3 ; ; 9+.f'ang'pcng|gp'x'Rqnumw*Fwtumc"4225+.pqx "rtq'hcwpw" gum²tgrwdnkm{j'n^a-gp'rtx/ p' o "cwwqtg o|"PR'Rqf{I||*Oqegm"gv'cn0'4228+0'X xql'pg|p^a o 0'Pqx "ftwj"rtq'hcwpw" gej0

gtp"jqt c[5b]<390/4:0X04224."3" * [RV+0'Ocn"Uvtcpc"RT"]47_<0:0X04224."3" *UY +=30/390X04224."3" " * [RV+0'Nová louka PR [29]<390X0/40X04224."3" *OV+0'Egmg o "6'gz0

\ jqfpgqep'x ungf m

\ " o cvgtk^anw."mvgt "d{n'|f'um^ap'mq o rngzpf o "gpvq o qnqikem o "x |mw o g o "74'nqmcnk^aLk|gt/ um ej"jqt'c'Ht fncpvumc.d{n'ugngmvqx^apq'c"fq'ftwjqx²Àtqxp "fgvgt okpqx^apq'6'653'gzg o rn^a/ " gngfk'Rjqtfcg'rcv 'e'ej":9 ftwj o .e'qfl'r gfuvcxwlg'5:.5" '|egmqx²jq'r q vw'449'ftwj " fquwf"|lk-v p ej"pc"À|g o" gum²tgrwdnkm{0'Fq'ftwjqx²Àtqxp "pgd{n'fgvgt okpqx^ap'tqf" *Megaselia*"c'uc o keg'tqfw"Phora0'Dg|'tqfw"*Megaselia* lg"x" T'fquwf'wx^af p'x um{v'342'ftw/ j .|lk-v p "rq gv'ftwj "vgf{|r gfuvcxwlg'94.7" ' "hcwp{| T0'R gx^afcl'ftwj{|u'gxtqrum o" tq|-f'gp' o "77'ftwj "ó'85.4" ' +.p'angfwl'rcngctmvmkem²*38'ftwj "ó'3: .5" ' +c"j'qncmvmkem² ftwj{*37'ftwj "ó'39.4" ' +0'X'rtqxp^ap'u'rqfqp o k'mq o rngzpf o k'x |mw o {fkrvgtqhcwp{|fg' q'ftwj²pglx v-f' o pqfluvx'f|cej {egp ej'ftwj "|lgfp²qdcuvk0'X'eg'q'lgf'gp'ftwj*: : +lg'|p^a o q' rqw|g|"PR'Rqf{I||*Oqegm"gv'cn0'4228+.x'E JMQ'R^ancxc'd{nq'|lk-v pq'77'ftwj *Oqegm"3 ; ; : +. x'ugxgtq|^arcfp'ej" gej^aej"75'ftwj *Oqegm" ("Dctv^am"4222+0'X{uqm² o pqfluvx'f|lk-v p ej" ftwj "lg'f^apq'p'glp'kp'gpl'f'xp'f o 'ud tg o |c'rqwflk'f'ghgmvkxp'ej" o gvqf.'cng'x{x'qx'f^aq'x{x'um² ftwjqx²f'xgt|kv "r ktq|gp ej" c' o ^anq'cpvtqrkem{x'qnxkp p ej"nqmcnk^auvw'fqxcp²qdcuvk0

Pglhtgmxgpvqxc p l-f o k'ftwj{|c'egn²ung'fqxcp²qdfqd'f'd{n'<'Eqpkegtc"lqtkeqnc"*47'hqmc/ nkvt+. *Anevrina thoracica**46+. *Triphleba papillata**44+. *Phora tincta*"c"*Ph. stictica* *42+. *Conicera dauci*"*3 ; +0 Cuk'v gv'kpc'ftwj "36+d{nc|cej {egpc'rqw|g'pc'lgfp²pgdq'4'nqmcnk^aej0

Rqfng'rq vw'wnqxp ej'gzg o rn^a "d{n'f'q o kpcpvp'f"*Phora stictica**:64'uc o e +. *Metopi-na oligoneura*"*946'gz0+. *Phora tincta*"*658'uc o e +. *Eqpkegtc"lqtkeqnc*"*388'gz0+. *Triphleba papillata* *377'gz0+0'Lcmq'jqlp²n|g'f'ang|pc kv'ftwj{|*Borophaga femorata* *368'gz0+. *Phora pubipes*"*353'gz0+. *Ph. dubia*"*33 : 'gz0+. *Anevrina thoracica*"*324'gz0+0'V² o "rqnqkpc'ftw/ j "63+d{nc|cej {egpc'x" o 2p "pgfl'32'gzg o rn^a 'ej0

Htgmxgpvqxc p²c'f'q o kpcpvp'f'ftwj{|rcv 'f'xgu o u'm'd flp o "ucrtq^a i o .x{x'um² r q v{|cej {egp ej'gzg o rn^a "p mvgt ej"|"pkej"pcr 0'*Anevrina thoracica*, *Triphleba papillata*+

luqw | r uqddp{"k" cvtcmvxpquv" rtqvqkpx ej" rcuv" Hcwpc" gngfk" Rjqtfcg" Lk|gtum ej" jqt" |cjtpwlg" mtqo "pgurgeknk|qxcj ej" cpvtqrqvngtcpp" ej" ftwj "k" opqfluvx" |x| aep ej. ru{ej/ tqLnp" ej" ftwj .v{ rkem ej" rtq" jqtum" rqnqj {"pcr 0" *Phora horrida, Ph*) *penicillata, Triphleba citreiformis*+0" X tc|p "lg" rqf" ftwj "x" |cp ej" pc" |cejqxcn" a" tc-gnkp-k- v "c" oqm cf{<" *Phora convallium, Ph. convergens, Ph. indivisa, Ph. hyperborea, Ph. pubipes, Triphleba bicornuta, T. citreiformis, T. gracilis.*

Pglx v- "r" qg" ftwj " gngfk" Rjqtfcg" d{ n" pcng |gp" pc" nqmcnk" v" ej" RT" Dwmqxe" *64" ftwj +. " PRT" Tc-gnkp-k- v "Lk|gt{" *57" ftwj +. " TMrk " a" m" c" Uvftlqx " xtej" *56" ftwj +. " f" a" ng" pc" nqmcnk" v" ej" RT" Ocn" a" Uvtpc" *49" ftwj +. " RT" T{ d" h" qw m. " TMqne x" t{ dp" m. " RR" Vkej" a" " " mc" *r" q" 46" ftw |f" e" j+0" Rqfng" rq vw" qfej {egp ej" gzg o rn" a" d{ n{ " pgldqj cv- " v{ vq" nqmcnk" v{ <" PRT" Tc-gnkp-k- v "Lk|gt{" *798" gzg o / rn" a" +. " RT" Dwmqxe" *793" gz0. " RT" Lgfnqx " f " n" *689" gz0+. " RT" Ocn" a" Uvtpc" *679" gz0+0

\ " rjngfw" ftwj qx" 2" fkgx" t|kv{ " gngfk" Rjqtfcg" rcv " m" pglepp l- " o" dkvqr o" ungfqxc" 2" qdncvk" ngup" r" tc o gpk- v " c" j" qtum" 2" oqm cf{ " *RT" Dwmqxe. " RT" Ocn" a" Uvtpc. " TMqne x" t{ dp" m. " RR" Vkej" a" " " mc. " RT" Ogcptf" " Uo f" 2. " Tglfkeg. " tc-gnkp-k- vp" dkvqr { " *PRT" Tc-gnkp-k- v "Lk|gt{" . " PRT" Tc-gnkp-k- v "Lk|gtm{. " RT" T{ d" h" n" qw m { + " c" r" ktq |gp" 2" dw kp { " TMrk " a" m" c" Uvftlqx " xtej" x" PRT" Lk|gtum" j" qtum" 2" dw kp { +. " vgf" f" nqmcnk" v{. " mfg" d" nq |lk- v" pq" pglx v- " r" ftwj qx" 2" urgmvt" o" c" pglx / tc|p l- " o" cvqrwrgp" urgeknk|qxcj ej" x | aep ej" ftwj 0"

Xgmn o" r" "pqug o" x |mw o" w" luqw" rtxqp" ang |{ " rtq" A |g o" f" T" c" gej" 0" F" m{ " ghgmvxp" o" o" gvq/ f" a" o" ud" tw" c" fnqjv" qf" qd" 2" o" w" x |mw o" w" d{ n{ " pcng |gp" { " 4" ftwj { " pqx" 2" r" tq" hcw" pw" gum" 2" tgrwdnk" m{ <" *Borophaga irregularis c Triphleba disparinervis*-8" ftwj " d{ nq" pcng |gp" q" r" rtx" 2" | A |g o" f" gej" <" *Aenigmatias franzi. Chaetopluophora spinosior. Gymnophora prescherweberae, Triphleba collini. Veruanus oldenbergi" c Xenotriphleba dentistylata*

NKVGTCVWTC

- DCTVfM"O"0"3; ; < Fkrvgtc"qh" vj" g" Dexctkcp" hqtguv" 0" *Silva Gabreta. Xl o rgtm. 4<45; /47: 0*
- DWEM"O"0"3; ; < 9<" C" pgy" i" gpwu" cp" f" urgeku" qh" Rjqtfcg" *Fkrvgtc+htq o" Egpvtcn" Gwtqrg" y" kvj" tg o ctmcdn{ " rtk o kvkx" g" o cng" i" gpkvcnk" 0" *Ent. Scandl. 4: <573/57: 0*
- EQN| GT" E" 0" P" 0" 3; 74< Pqvu" qh" Vtkr jngdc" o" kpwc" H" *Fkrv0. " Rjqtfcg+cpf" ku" k" o" c" o cwtg" uci" gu" 0" *Entomol. Month. Magl. .: <448/44; 0*
- EQN| GT" E" 0" P" 0" 3; 76<" C" pgy" urgeku" qh" O" g" i" cugnk" *Fkrv0. " Rjqtfcg+htq o" Dtkvckp- pqv" qp" hwp" i" weq" u" w" Rjqtfcg" 0" *Entomol. Month. Mag. .: <32: /3340*
- FKUPG | "T" 0" J" 0" N" 0" 3; ; < 9<" C" pgy" urgeku" qh" Vtkr jngdc" htq o" Urckp" cp" f" v" y" q" pgy" u" { pqp { o" u" kp" vj" ku" i" gpwu" *Fkrv0" Rjqtfcg" 0" *Entomol. Month. Magl. 345<3; 3/3; 60*
- FKUPG | "T" 0" J" 0" N" 0" 3; ; < 6<" Uewvng" Hku" < Vj" g" Rjqtfcg" 0" E" j" c" r" o" c" p" (" Jcm. " Nqpfq. " 689" r" r" 0
- FKUPG | "T" 0" J" 0" N" 0" 3; ; < 506<" Hcokn{ " Rjqtfcg. " r" 73/9; 0" Kp<" RCRRN" 0" (" FCTXCUD" 0" g" fu+<" *Contributions to a Manual qh" Rncgcgtewk" Fkrvgtc" *y" kvj" urgeknk" tghgtpep" vq" Hku" geapq o ke" ko rqtvcpeg-0" Xqnl" 50" Jki jgt" Dicej|egt" c" 0" Uekppeg" J gtcnf. " Dwfrcguv*
- FWTUMC" G" 0" 4225<" Zgpqytr jngdc" f" gpvku" {ncv" Dwem" o" ppy { " fnc" Rqnumk" i" cvwpgm" k" tqf |cl" |cftqycv{ej" *Fkrvgtc. " Rjqtfcg" +ukg" fnkm" |cuqnpq{ej" \ cvqmk" I f" c" umkg" 0" *Dipteron. 3; <9/: *kp" Rqnkuj. " Gpinkuj" uw o o 0+0*
- LCTMWNQX" H" 0" 3; 94<" Owej" c" o" i" qtdc" mc" Rjqtfcg" j" qnqg" tkugc" *Fkrvgtc. " Rjqtfcg+o" e" jk- plm" nqtp" x{ej" ng" 0" *Zoologi- gumkl" fwtpe. 73<3637/363: *kp" Twuukp. " Gpinkuj" uw o o 0+0*
- OKE J CLNQXUMCLC" O" 0" X" 0" 3; ; < 9<" C" t" gxkgy" qh" vj" g" i" gpwu" I { o pqr jqt" c" Oceswct" *Fkrvgtc. " Rjqtfcg+htq o" vj" g" Twuukp" Hct" Gcu" 0" *Far Eastern Entomologist. 67<3/: 0*
- OQEGM" D" 0" 3; ; < 3<" Hcwpuvke" tgeqf" fu" htq o" E |gej" qunqxcmk" c" 0" Fkrvgtc. " Rjqtfcg" 0" *Acta Ent. Bohemoslov. 9: <4870*
- OQEGM" D" 0" 3; ; < 4<" Vuej" qnqy" cmkuej" C" tvp" f" gt" I" c" vwpvi" Rjqtfcg" Ncvtgkmg. " 39; 8* Fkrvgtc. " Rjqtfcg+0" Kp<" TQ \ MQ" 0" P " T" 0" (" XC J CTC" L" 0" g" fu+<" Fkrvgtq" nq" i" k" e" C" Dqjg o qunqxcce. " Xqnl" 50" *Folia Fac. Sci(Natl) Univ Masaryk(Brno). Biofl. 96*9+< ; 5/; 80*
- OQEGM" D" 0" 3; ; < 6<" Pgy" hcwpuvke" tgeqf" fu" qh" vj" g" hc o kn { " Rjqtfcg" *Fkrvgtc+htq o" E |gej" qunqxcmk. " r" 0" 32; /3350" Kp<" LGFNK MC" N" 0" *g" f" 0+<" *Dipterologica Bohemoslovaca. Xqnl" 80" Uinql" Gp" 0" Uqe0. " Dtcvkuncx" c*

OQEGM"D03 ; ; 7< Pgy"hcwplukve"tgeqtfu"qh"vjg"hc o kn{ "Rjqtfcg"*Fkrvgtc+"htq o"vjg"E|gej" Tgrwdnke." r r0"34 ; /3530" k p<"DKVW™"M"R0" *g f0< "Dipterologica Bohemoslovaca, Xqnl"90"Vgejpkcna"Wpkl." \ xqngpl

OQEGM"D03 ; ; 9< Hcwplukve"tgeqtfu"htq o"vjg"E|gej"cpf"Uuqxcn" Tgrwdnkeu" Fkrvgtc."Rjqtfcg. kp<"XC J CTC" L0" ("TQ \MQM P " T0" *g fu< "Fkrvgtqnikc" Dqjg o quqxcce." Xqnl" : 0" Folia Fac. Sci0 Nat0 Univ0 Masaryk0 Brun0, Bio0." ; 7< 442/4440

OQEGM"D03 ; ; :< "Rjqtfcg0"kp<"TQ \MQM P " T0" ("XC J CTC" L0" *g fu< "Fkrvgtc"qh"vjg"R"acxc" Dkjur jgtg" Tgugt xg" qh" WPGUEQ" K0" Folia Fac. Sci0 Nat0 Univ0 Masaryk0 Brun0, Bio0." ; ; < 3 ; 3/3 ; 90

OQEGM"D03 ; ; :< "Ftwj{ " gngfk"Rjqtfcg" *Fkrvgtc+r "tqfp"tg|gtxcg" Dwm{ "wX{uqm2jq" E jxqlpc"xqmtg" Rctfwdkeg0" *Rjqtfcg" *Fkrvgtc+ " *gzegr" v" Ogi cugnk+ "kp"vjg" Pcwwtg" Tgugt xg" Dwm{ "wX{uqm2jq" E jxqlpc" *fkuv0" Rctfwdkeg." E|gej" Tgrwdnke+0" Acta Musei Reginaehradecensis, S0A." 49< 435/448" *kp" E|gej. "Gp inkuj" cduv0+0

OQEGM"D04228<Rjqtfcg" Nvgtkmg." 39 : 80"kp< LGFNK MC" N0. UVNQWMCNQX f" X0" ("M—FGNC" O0" *g fu< " Checklist of Diptera of the Czech Republic and Slovakia0" Gngvtpke" xgtukap" 30" j vwr< l1 |qqqj {0hp0wpkdc0uml fkrvgtc" cpf" EF/TQO0" *KUDP" : 2 ; 8 ; 84 ; /2/8+0

OQEGM"D0" ("DCTV fM" O0" 4222<Rjqtfcg0"kp<"DCTV fM" O0" ("XC J CTC" L0" *g fu< "Fkrvgtc"kp"cp"kp f wvutkcn" (" Chhgevgf" Tgikp" *Pqtjv" Y gungp" Dqjg o kc." D"nkc" cpf" Fwejeqx" Gpxktqu+ " K0" Folia Fac. Sci0 Nat0 Univ0 Masaryk0 Brun0, Bio0." 326< 435/43 ; 0

OQEGM"D0." DCTV fM" O0" ("MWD" M™0" 4228<Rjqtfcg." r r0"3 : 8/3 ; 70"kp<"DCTV fM" O0" ("MWD" M™0" *g fu< "Diptera qh" Rqf" l0" Pvkqpcn" Rctm" cpf" ku" Gpxktqu0" gum" |g o f num" *wpkxgt|kv<"x" Rtc|g." 654" r r0

RTGUE JGT" U0" ("YGDGT" I0" 3 ; ; 8< \ wt" Mgppvkuu" fgt" Dwengp" Hgi gp" Hcwpc" *Fkrvgtc< "Rjqtfcg+ " cwuhigy@jvng" Uvcpftvg" kp" M0q" /" HtÅjlc j tucurgm0" Decheniana." 57< 637/6430

RTWPGT" N0" ("O" MC" R0" 3 ; ; 8< Ug|pc o" qde" c" lglkej" "av" x" gum" 2" tgrwdnkeg" u" fun{ " ocrqx ej" rqn" rtq" u" qx" 2" ocrqx" *p" hcpv{0" *Nku" qh" ugwng o gpvu" kp" vjg" E|gej" Tgrwdnke" ykvj" cuuqekvgf" o cr" Lgnf" eqfgu" hqt" hcwplukve" itkf" o cr kpi" u" {uvg o+0" Klapalekiana." 54" *Uwr r0+0" 3/337" *kp" E|gej. "Gp inkuj" uw o o+0

UE J OKV \ " J 0" 3 ; 4 : < "Fkg" igqj tcr j kuej g" Xgt dtgkwpi" fgt" gwtqr@kuej gp" Rjqtfcg/ctvgp0" Naturhistorisch Maandblad." 39< 35 ; /3690

UE J OKV \ " J 0" 3 ; 62< Mtkviejgu" Xgt|gk e jku" fgt" rncgctm kvej gp" Rjqtfcg" o kv" Cpicdg" kjtg" Xgt dtgkwpi0" Naturhistorisch Maandblad." 4 ; < ; 8." 323/326." 33 : /342." 349/34 ; 0

UE J OKV \ " J 0" 3 ; 65< Rjqtfcg0" kp<" NKP FPGT" G0" *g f0< " Die Fliegen der palaearktischen Region." Xqnl" 6" *55< 34 ; /3820

XQPK MC" R0" 422 : < Gpvq o quqikem "x |mw o Lk|gtum ej" jqt" c" Ht fncpvumc" x hvg e j" 4222/42290" *Gpvq o quqikcna" uwtxg" { " qh" vjg" Lk|gtum 2" jqt{ "Ovu" cpf" Ht fncpv" t g ikap" kp" 4222/4229+0" Udqtp0" Ugxgt gud" Ow/0." R f0" X ff." Nkdtgce." 48< 5/34" *kp" E|gej. "Gp inkuj" uw o o+0

XQPK MC" R0" ("X™ fM" T0" 422 : c" " mncf p" e jctcmvgtkukmc" |mqw o cp2jq" Å|g o" Lk|gtum ej" jqt" c" Ht fncpvumc0" * I gpgtcn" e jctcevgtkukve" qh" vjg" uwvf { "ctgc" kp" vjg" Lk|gtum 2" jqt{ "Ovu" cpf" Ht fncpv" t g ikap+0" Udqtp0" Ugxgt gud" Ow/0." R f0" X ff." Nkdtgce." 48< 35/55" *kp" E|gej. "Gp inkuj" uw o o+0

YGDGT" I0" 422 : < Rjqtfcg0"kp<"RCRG" V0" *g f0< "Hcwpc" Gwtqr cgc< "Fkrvgtc" Dtcej|egt c0" Xgtukap" 3050" Cxckncdng" qpnkpg" cv" jvwr< l1 y y0 hcpwpgwt0 qti 0

\CLEGX" X0" H0" 3 ; 99< "Owej { " 6" iqtcdvm" *Fkrvgtc." Rjqtfcg+ "x" hcwpg" Oqpi qnk0" UJug o g" r jqtkf" Hkgu" *Fkrvgtc." Rjqtfcg+ " htq o" Oqpi qnk0_0" Nasekomye Mongolii." Ngkpi tcf." 7< 8 ; 6/8 ; 9" *kp" Tvuukcp+0

UWO OCT [

Cnvqj g vjgt" : 9" urgekqu" qh" vjg" hc o kn{ "Rjqtfcg" ygtg" hqwpf" kp" vjg" Lk|gtum 2" jqt{ "Ovu" cpf" Ht f/ncpv" t g ikap" dg v y ggp" 4224" cpf" 4229=" o cmkpi" wr" 5 : 05 " "qh" cna" urgekqu" qh" vjg" hc o kn{ "mpqyp" wr" vq" ppy" kp" vjg" E|gej" Tgrwdnke" *449" urgekqu+. "qt" 9407 " "qh" cna" urgekqu" gzegr" vjg" i gpvu" *Megaselia* *342" urgekqu+0" Oquv" qh" vjg" urgekqu" hqwpf" ygtg" Gwtqr cgp" *77" urgekqu." 8504 " +. " hqnnqygf" d" (" Rncgctevke" *38" urgekqu." 3 : 05 " +. " cpf" J qnctevke" gng o gpvu" *37" urgekqu." 3904 " +0

Vyq" urgekqu" ygtg" tgeqtf" kp" vjg" E|gej" Tgrwdnke" hqt" vjg" Łtuv" vk o g< "*Borophaga irregularis* cpf" *Triphleba disparinervis*=cpvqjgt" ukz" urgekqu" ctg" pg y" hqt" Dqjg o kc< "*Aenigmatias franzi*." *Chaetopleurophora spinosior*." *Gymnophora prescherweberae*. *Triphleba collini*." *Veruanus oldenbergi*." cpf" *Xenotriphleba dentistylata*)

Vjg" o quv" htswgpv" urgekqu" kp" vjg" uwvf { "ctgc" ygtg" *Eqpkegtc* " *łtkeqnc*" hqwpf" cv" 47" nqecnk/ vkgu." hqnnqygf" d" { "*Anevrina thoracica*" *46" uc o rngu+. "*Triphleba papillata*" *44+. "*Phora tincta*."

cpf"Phora stictica *42"uc o rngu"gcej+0"Vjg"Dwmqxge"PT"*64"urgekgu+."Tc-gnkp-k-v "Lk|gt{"PPT"
*57"urge0+."Mrk a"m"c"Uvflqx "xtej"jkn"*56"urge0+."Ocn"Uvtcp"PT"*49"urge0+cpf"t{d"nqw m{"
PT."Mqne x"t{dp"m."Vkej" a" " mc" PO"*46"urgekgu"gcej+"tgrtgugpvf"nqecnkkgu"ykvj"vjg"o quv"
fkxgtug"rjqtkf"urgekgu"urgetwo0

Oquv"qh"vjg"urgekgu"hqwpf"kp"vjg"uvwf{"ctgc"ctg"tcvjgt"eqo o qp."kpenwfkpi"*dgukfg"vjg"Xxg"
o quv"htgs wgpv"urgekgu."ugg"cdqxg+hqt"gzco rng<"Ogvqrkpc"qmk i qpgwtc."Fkrnqpgxtc"tqtgueggu."F0"
niidula."Anevrina unispinosa, Hypocera mordellaria, Phora holosericea, Tripleba trinervis0"
Jqy gxgt."y g"cuuq"tgeqtfgf"tctg"urgekgu"qeewtkpi"o ckpn{"kp"pcvwtcn"qt"ug o kpcvwtcn"htgguv"
*Chaetopleurophora bohemani, Beckerina umbrimargo, Gymnophora integralis, Tripleba
luteifemorata, T. minuta, cpf"Spiniphora dorsalis+"cpf"o gcfqyu"qt"rgcv"dqi u"*Phora arti-
frons, Ph. convergens, Ph. hyperborea, Ph. indivisa, Ph. penicillata, Ph. pubipes, Tripleba
bicornuta, T. citreiformis, cpf"T. gracilis+0"Cnn"vjgug"ru{ejtqr jknqwu"cpf"v{trjqr jknqwu"urgekgu"
ctg"ejctcevgtkuvke"ht"o qpvcpg"ctgcu"qh"vjg"E|gej"Trwdnke0

