

Koutulovítí (Diptera: Psychodidae) Jizerských hor a Frýdlantska

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

Lcp"LGfiGM³+."Rcxgn"XQPK MC⁴+ ("Lk ¶"RTGKUNGT⁵+

³+Gpvq o qnq i kem²"qff ngp¶"Pª tqfp¶jq" o w |gc."Mwptcvekq"3."E \ "ó"36:"22"Rtcj c"6
g/ o ckn<"lcpalg | gm B p o le |

⁴+Ugxgtq gum²" o w |gw o ."Ocuct {mqxc"33."E \ "ó"682"23"Nkdtge-"
g/ o ckn<"rcxgn\oxpkemc B o w |gw o ndle |"

⁵+Xnp c umª"8;4."E \ "ó"682"28"Nkdtge"8-"g/ o ckn<" r t g k u n g t \ d n d B u g | p c o l e |

Abstract."Cnvq i gvjgt"54" i gpgtc"cpf"9:"urgekq"*kpen¶"qpg"uwdurgekq+qh" o qvj" i kgu"* o ckn{ "qh"vjg"uwdhc o kn {
Ru { e j q f k p c g . " y k v j " q p n { " q p g " i g p w u " c p f " v y q " u r g e k g u " q h " U { e q t c e k p c g - " y g t e " g e q t f g f " c v " 9 ; " n q e c n k v k g u " k p " v j g " L k | g t u m 2 " j q t { " O v u " c p f " H t f n c p v " t g i k q p " F k u v t k d w k q p " q h " v j g u g " u r g e k g u . " v j g k t " o r q t v c p e g " c p f " e q p u g t x c v k q p " x c n w g " h q t " v j g " L k | g t u m 2 " j q t { " R t q v g e v g f " N c p f u e c r g " C t g c " c t g " f k u e w u u g f " V y q " u r g e k g u " c t g " p g y " h q t " v j g " h c w p c " q h " D q j g o k c " B e r d e n i e l l a k o c i i L g f l g m . " 4 2 2 8 " c p f " B . p y r e n a i c a X c k m c p v . " 3 ; 9 8 - " S a r a i e l l a r o t u n d a * M t g m . " 3 ; 9 2 + " k u " p g y " h q t " R q n c p f " Q p g " p g y " p c o g " e q o d k p c v k q p " k u " r t q r q u g f . " P s y c h o m o r a m y c o p h i l a * X c k m c p v . " 3 ; : : + " e q o d \ p l . " c p f " k u u { p q p { o " P . v a n h a r a i L g f l g m . " 3 ; ; 7 " k u " h m m { " t g e q i p k | g f \}

Key words:"Fkrvgtc."Ru { e j q f k f c g . " h c w p k u v k e u . " p g y " t g e q t f u . " p c o g " e q o d k p c v k q p . " p c w t g " e q p u g t x c v k q p . " L k | g t u m 2 " j q t { " O v u . " H t f n c p v " t g i k q p . " E | g e j " T g r w d n k e . " D q j g o k c . " R q n c p f

—XQF

gng "Ru { e j q f k f c g " l g " v c z p q o k e m { " l g f p q w " | " p g l q d v \ f l p l - " e j " u m w r k p " p g o c v q e g t p \ e j " f k r / v g t \ " \ " r q f g n g f " R j n g d q v o k p c g . " D t w e j q o { k p c g . " J q t c k g m k p c g . " U { e q t c e k p c g . " V t k e j q o { k p c g " c " R u { e j q f k p c g " u g " r q w | g " v k " r q u n g f p " l o g p q x c p 2 " x { u m { v w l " x g " u v g f p " G x t q r = " x " L k | g t u m e j " j q t " e j " c " p c " H t f n c p v u m " d { n { | l k - v p { " | c v " o " r q w | g " r q f g n g f k " U { e q t c e k p c g " c " R u { e j q f k p c g \ " r c n g c t m v k e m 2 " q d n c u v k " l g " | p a o q " x " e g " p g f l " 7 2 2 " f t w j " g n g f k " R u { e j q f k f c g * Y c i p g t " 3 ; ; 2 + . " c n g " l g - v " k " e g p v t a n p " G x t q r c " u m v a " p q x 2 " f t w j { " r t q " x f w * x k | " p c r \ " L g f l g m " 3 ; 9 ; . 3 ; ; 5 c . e . " f . 3 ; ; 6 c . 3 ; ; 7 e . 3 ; ; 8 c . 3 ; ; 9 . 3 ; ; . 3 ; ; 9 c . " d . 3 ; ; ; e . " 4 2 2 4 . " 4 2 2 8 c = " L g f l g m " (" J a l g m " 4 2 2 9 + " c " o p q j q " h c w p k u v k e m e j " p q x k p g m * L g f l g m " 3 ; ; 4 . 3 ; ; 6 . 3 ; ; 7 . 3 ; ; 8 c . " d . 3 ; ; ; d . " 4 2 2 4 . " 4 2 2 5 . " 4 2 2 8 d . " e . " f . " 4 2 2 9 = " L g f l g m " (" Q o g n m q x a " 4 2 2 9 = " L g f l g m " (" U e j c e j v " 4 2 2 8 + \ " V c z p q o k g " g n g f k " u g " e g n q u x v q x " x { x | l " r g m q v p " c " t q | r q t w r n p 2 " p a | q t { " p c " t q f { " c " x { - - " u " | u v g o c v k e m 2 " l g f p q v m { " l u q w " r c v t p 2 " | p a u n g f w l e " e j " x { d t e p e j " r t c e f " D t c x q l g v " c n l * 4 2 2 8 + . " F w e m j q w u g " (" N g y k u * 4 2 2 2 + . " L g f l g m " * 3 ; 9 9 . " 3 ; ; 5 d . " 3 ; ; 6 d . " e . 3 ; ; c + . " L g f l g m " (" x c p " J c t v g p * 4 2 2 7 + . " L w p i * 3 ; 7 8 + . " S w c v g * 3 ; 7 7 + . " X c k n c p v * 3 ; 9 3 / 3 ; ; 5 + " c " Y c i p g t * 3 ; ; 2 . " 4 2 2 9 + \ " o f p p 2 " r t a e g " l u q w " f n g f l k v 2 " k " | j n g f k u m c " r q e j q r g p f " | q q i g q i t e L g " l g f p q v n k x e j " f t w j \ " U { u v 2 o " r q w f l k v " x " v 2 v q " r t a e k " l g " m q p h t q p v c e f " r w d n k m q x c p e j " x u n g f m " c " f n q w j q n g v 2 | m w - g p q u v k " u g " x - g q d g e p " | p a o o k " v c z p q o k e m o k " r t c e g o k " x - g " w x g f g p e j " c w v q t \}

Lgflgm (2006d+"wxgfn"rtq" gumqw"tgrwdnkmw"36:"ftwj "mqwwn¶."vl0"rtq" gej{"349" c"rtq" Oqtexw"345"ftwj 0"R gf"cjªlgp¶o"x |mw o w Lk |gtum ej"jqt" c"Ht fncpvumc"x"tqeg"4222"pgd{n{ "rwdnkmqxªp{" |"v²vq"qdcucvk"flªfp²"ftwj {"mqwwn¶0"

Fgur nek"mqwvwnf"xgnkmqv/4/5" o o+"ug"x{um{vwlf"pc"xnm ej" |cuvf p p ej" o fuvgej"x"qmqlf" rtc ogp .rt ucm 'urqfpf'ej" c"rqxtejx ej"xqf."xqfpf'ej"p"ftflf" c" |gl o 2pc" ocn ej"vqm 0"Nctx{" ug"x{x|glf" x" |cjp|xfcl'ef" o" qticpkem 2" o" o cvgtk"anw" oq "an " *tqf{" *Peripsychoda*. *Clytocerus*." *Pneumia* c" *Ulomyia*+. "pc" |xnj gp 2" o" rqxtejw'lgk'ej"mc o gpkv 2 j q" uduwt"avw" *uudvtkdwu" *Mormiina*." tqf{" *Berdeniella* c" *Pericomat*+. " k"x" ogejx ej" rqn-v" a' fej" rtc o gpk- " *tqf{" *Mormia*." *Pericoma*. *Tonnoiriella*+0'X xql'nctgx" rtdqf'j" avcm 2" xg'uejt"apm"ej"wj{j pwn ej" o mm - " *tqf" *Philosepedon*+. "x"pcrcxgpkp"ej" r'fumw" c"-v tmw" *tqf" *Parajungiella*+. "pc" |nglqkxv 2" o" r'qxcmw" mc o gp " d{uv kp" *tqf{" *Berdeniella* c" *Bazarella*+. "x"vtqwejpkx 2" o" f gx " *tqf" *Trichomyia*+. "x" fwwkp"ej" uvtqo " *tqf" *Sciria*+. "x"jqwd"ej" *tqf" *Chodopsycha*+. "x"mcnk-v'fej" f'kxqm 2" |x g" *tqf" *Logima* c" f'qmqpeg" k"x"gzmtg o gpvgej" c" o q " |pg k-v p ej" uduwt"avgej" *vtdkw"Ru{ej qf'kpk+0' \ "avwrek" tqfw" *Sycorax*" uclf" mtgx" qdq'lfkxgnp'fm 0

OGVQFKMC" C" O CVGTK f N

Ocvgtk"an d{n" f"um"p"x'ngvgej"422264229't |p o k'o'gvqf'cok'ud tw'pc'9; 'hqmckv"ej" *pcx'f'pc'9; 'f'n' fej"dkv'qrgej"+0' Rqftqdp l-f"x{ o g|gp" c"ejctcmvgtk'umkmc"ungf'qcxp 2 j q" A|g o f'xk| "Xqpk mc" ("Xk- "am" *422:+0' Pgl cuv lk' r'qwf'xcpq" gzv'p|f'xp" o g'v'f'q'ud tw" *r'q'w|g" k'o" a'ic+d{n" r' gtw-qxcp "mt"avmq'fd "u o {m'pc' xg'ig'cck" *d g j { "vqm "c' xqfp'ej" p" ftflf. " o qm cf { " .tc-gnkpk-v . " rtc o gpk-v . " rt ucm { "crqf'f+0' P'cud'f'tcp " o cvgtk"n d{n" w'u o teqx"p"x'gzj'cwu'v'ukt'p o" gvj'gtg o . "v'cpur'q'v'qx"p" c' f'gr'q'p'qx"p" x'97' " 'gvj'cp'q'w|' O g|k'kp'v'p|f'xp" o g'v'f' "ud tw" r'cv'knc" c'rnkmc'g' rncv'qx ej" flaw ej" o kugm'0'X |mw o "mqwvwnf" rtdqf'j'cn" k'|c' r'q'w'f'k'v' fcn'fej"v{r " r'cu'f' .wxg'f'p ej" x"p"ung'f'w'f'ef" o" r' g'j'ng'f'w"x-gej" r'q'w'f'k'v ej" o g'v'f'ud tw" c'ud' tcvgn " *|mtcm {"luqw'r'q'w'f'k'v {"x" r' g'j'ng'f'w'ngmckv+c

DV ó'dggt{ 'v'rcru"r'x'p'f' r'cu'k+=GV'ó g o gti'p'peg'v'rcru" *g o gti'g'p'p'f' r'cu'k+=OV'ó O'cnckug'v'rcru" *O'cnckug'j'q' r'cu'k+=RV'ó r'q'v'g'p'v'rcru"ó o g'v'v'rcru" *r'q'v'g'p'q'x 2 . " o cu'x 2" r'cu'k+=R | T ó'r {tc o k'f'cn'v'rcru" *r {tc o k'f'ap'f' r'cu'k+= [RV'ó { g'nnq'y" r'cp'v'rcru" *flwv 2" o kum {+. "x-g' L0'Rtgk'ungt" ("R0'Xq'pk mc"n'v0-U'Y'ó'u'y'g'g'r'k'p' *u o m"p'f' x'g'ig'v'c'g'g'p'v'q o q'q'ik'em'q'w'u'f'f' . L0'L'g'f'f'gm. L0'R'tgk'ungt. R0'E'j'x'q'lmc. R0'N'c'w'v'g't'g't'n'v0'R'q'f't'q'd'p "v{v'q" o g'v'f'f' r'q'k'uw'g'X'q'pk mc" *422: +0

\ "p m'q'k'mc"v'k'f'e'p'cud'f'tcp ej" mwu "d{n {"x'v' f'f' p' |r't'g'v'x'c'k'v'c'k'v'p'f'x{j'q'f'p'q'x"p'f' r'q'w|g"x d tqx 2" f'q'm'c'f'q'x 2" g'z'g o r'n" g'lg'f'p'q'v'x ej' f'tw j " *r'q'lg'f'p'q o'g'z'g o r'n" k'f'tw'j'w'|m'c'f'f'2' h'q'm'c'k'v {"c'f'c'v'c+. "m'v'g't'2'd{n {" |c o q'p'v'x"p {"f'q' o'k'm/ tqum'q'k'em ej' r't'g'c't"v 0'X-gej'p {"x{j'q'v'x'g'p 2" r't'g'c't"v {"m'q'w'v'w'f' *327: +lu'w'f'g'r'q'p'q'x'c'p 2" x'g'ud'f'eg'p'v'q o q'q'ik'em 2 j q' q'f'f' ngp'f'P" a' t'q'f'p'j'q' o w|g'c'X' r'c|g0'X'g-mgt " o cvgtk"n f'g'v'g't o k'p'q'x'c'n' r'x'p'f'c'w'q't'r't"e'g0'R'q'w'f'k'v"p'q o g'p'm'c'v'w't'c" c' |g'p'f' f'tw j "lg'r'q'f'ng'L'g'f'f'c" *4228+c+0

R g'j'ng'f' h'q'm'c'k'v

—fcl'g'm'h'q'm'c'k'v" o "lu'w'w'x'g'f'g'p {"x'p"ung'f'w'f'ef" o" r'q' c'f'f'c' f'unc'p"p |g'x'h'q'm'c'k'v {" *q'dge. " av"q'dge."ej't"p p 2" A|g o f'." xtej'q'n'crqf'0t."h'c'w'p'k'v'k'em " o cr'qx " v'x'g'te" *R'tw'p'g't" ("O'f'nc 3; ; 8+. "p'c'f' o'q' u'm"x " -mc."dk'q'q'r."f'c'w'o " *k'p'v'g't'x'c'n'ud / tw." |m't'c'v'm" o g'v'f'f' "ud tw" c'w'u o {m " l'o 2'p'q'ud' t'c'v'ng" *r'q'm'w'f'p'g'p'f'w'x'g'f'g'p'q' |k'p'c'm." r'nc'v'f'c'U'Y." L0'L'g'f'f'gm'n'v0+0'P m'v'g't 2" n'q'm'c'k'v {"lu'w'w'q' |f' ngp {"p'c'x'f'eg'd'k'v'q'r . "m'v'g't 2" lu'w'w'q' |p'c' g'p {"r'f'u o g'p {0'F'c'n-f' r'q'w'f'k'v 2" |m't'c'm {<PRT'ó'p" a' t'q'f'p'f' r' f'q'f'p'f' t'g |g'tx'c'eg."RT'ó'r " f'q'f'p'f' t'g |g'tx'c'eg."RR'ó'r " f'q'f'p'f' r'c o "avm'c0

- [1] **Albrechtice v Jizerských horách.** "7479."872" o . " rtc o gpk-v "w'e'j'cnwr {"pc'lx0'q'm't'cl'k'q'deg" *q'f'rc'f'm {+. "450X042220"
- [2] **Arnoltice** *q'dge'Dwn'q'xmc+. "7278."522" o . "Dwn'q'xum "r'q'v'q'm."330XKKK04225."U'Y." L0'R'tgk'ungt'n'v0'j5_ **Dgf' ke'j'qx.** "7478." xtej' "O'cnk'p'f'm." :48" o . "Dgf' ke'j'qxum 2"ug'f'q."997" o . "ej'c'v'c' F'k'p'c."972" o " *ux'c'j' "u'v't'w'f'l'm'c+. "440X042240"j6_ **Dgf' ke'j'qx' xq'f'p'p" p" ftfl.** "7378."972" o < [4a] "u'w'f'p'm'c."440X04224= [4b] "70Z03; ; 7."U'Y."R0'E'j'x'q'lmc"n'v0' [5] **Bílý Potok.** "7379< [5a] " o qm cf {"n'q'w {"c' r'c'v'x'k'p {"r'q'f'2'n'D'f'2'j'q' r'q'v'q'mc."642" o . "440X04225."U'Y." L0'R'tgk'ungt'n'v0= 530X04226."40XK04227= [5b] " o qm cf {"n'q'w {"c' r'c'v'x'k'p {"r'q'f'2'n'D'f'2'j'q' r'q'v'q'mc."642" o . "440X04225."U'Y." L0'R'tgk'ungt'n'v0= 40XK04227= [5c] "t {dp'f' m {"u'x0'q'f'f'g'n0'v'c'p'k'eg."672" o " *r'c' o gpk-v . " o qm cf +. "50XK042270" [6] **Bukovec PR.** "737: < [6a] ngup'f' rtc o gpk-v "pc'lx0'ux'c'j'w." ; 42" o . "530X04225."U'Y." L0'R'tgk'ungt'n'v0= 70/380X0'c'380/4; 0X04225." [RV= [6b] "R'tc'q'w'q'mc." ; 22" o " *j'q'tum" a' h'q'w'c."rtc o gpk-v +. "430XK04228= 70/420XKKK04225."R | T= [6c] "W'r'q'p'q'x" a' h'q'w'c." : 2" o " * o qm cf +. "3; 0/420 XK042290"j7] **Bulovka.** "7278."522" o < [7a] "u'q'w'v'c'c'ng'up'f'ej"t {dp'f' m . "h'q'x'g'em" a'ej'c'v'c."j't'c'p'k'p'f' m" o g'p; 6142" * o qm c/ f {+. "30XK04227= [7b] "u'q'w'v'c'c'ng'up'f'ej"t {dp'f' m . "t'q' |x'c'k'p {"U'v'c't 2 j q' o n' p'c."j't'c'p'k'p'f' m" o g'p; 6145" *q'n-k'p'c+. "30XK042270"]: " **g'tp'q'w'u' |X'R'q'k.** "7278."472" o . "u'q'w'v'c'c' t {dp'f' m "x' e'j'q'f'p "q'f'q'uc'f' {" [8a] : "0KZ04226= [8b] " o qm cf "w'r' f'v'q'mw" f'q't {dp'f' m."460KX0/ : 0Z04229."O'V0]; " **gum** "m'w' o d'w'tm" *q'dge'V'c'p'x'c'n'f+. "7479."842" o . "l'k'f'p'f' u'x'c'j'p'c'f' A'f'q'f' o "r'q'v'q'mc" L'g-m't'c'd'ge" *rtc o gpk-v . "r'q'v m { . "h'g'u."h'q'w'f'k'v {" . "av'x'c'd'c+. "390XK04224."520X042270" [10] **Dolní Maxov** *q'dge'L'q'uh'x'F' n'f."

7479.'792' o < [10a]nw p^fr^qv gm^c o qm kp { "r^qf²Dtgejuej o k g f q x q w m c r n k m q w . ' 3 ; 0 X K 0 4 2 2 4 = [1 0 b] u x c j q x ² r t c o g / p k - v " r q f " O c z q x m o ' x t e j g o . ' 3 ; 0 X K 0 4 2 2 4 = [1 0 c] r q v g m ' c | c j t c f c ' w t g m t g c p f e j c n w r { " r q f " O c z q x m o ' x t e j g o . ' 4 7 0 X 0 4 2 2 2 0 [1 1] D o l n i P o l t o l i c e . ' 7 2 7 8 . ' 4 8 2 ' o . ' R c p g p u m " t { d p f m . ' 3 0 X K 0 4 2 2 7 0 [1 2] D o l n i P o l u b n y * q d g e " F g u p " a x L k | g t u m e j j q t * e j + . ' 7 4 7 9 . ' 8 2 2 ' o . ' u v t w f l m c " w f l g n g | p k p f v t c v k . ' 4 2 0 X 0 4 2 2 2 0 [1 3] F e r i n a n d o v * q d g e " J g l p k e g . ' 7 3 7 8 / 7 9 . ' 5 9 2 ' o . ' u q w v q m " O c n ² j q c " X g m ² j q " w b q r k e j w * x n j m ² n q w m { + . ' 3 ; 0 X K 0 4 2 2 3 . ' 4 2 0 X 0 4 2 2 4 - ' 3 ; 0 X K K K 0 4 2 2 6 . ' U Y . ' L o ' R t g k u n g t " n i v o [1 5] F o j k a * q d g e " O p f - g m . ' 7 3 7 8 . ' 6 7 2 ' o < [1 5 a] " u v t w f l m c " w u k n p k e g . ' 3 8 0 X 0 4 2 2 5 = [1 5 b] " r q v q m " H q l v m c . ' 3 8 0 X 0 4 2 2 5 0 [1 6] F r y d l a n t . ' 7 2 7 8 < [1 6 a] " \ o g e m " q m t g u . ' 5 4 2 ' o . ' t { d p f m " r q v r q f f l g n o ' v t c v k . ' 4 2 0 X 0 4 2 2 2 0 [1 7] F i n a n d o v * q d g e " H t f n c p v + . ' 7 2 7 8 . ' 4 8 2 ' o . ' A f q m " g m { " U o f ² * d g j { " c ' r " f v q m { + . ' 3 4 0 X 0 4 2 2 8 . ' U Y . ' L o ' R t g k u n g t " n i v o [1 8] H e j n i c e . ' 7 3 7 9 < [1 8 a] " o q m c f " l x o " q f " q d e g . ' 5 : 2 ' o * q m t c l " n g u c + . ' 4 0 X 0 4 2 2 8 = [1 8 b] " t { d p f m { " r q f " x t e j g o " Q g - p f m . ' 6 2 2 ' o * r q v g m + . ' 4 0 X 0 4 2 2 7 0 [1 9] H o r n i g t p " U w f p k e g * q d g e " P q x " X g u " p c f " P l u q w + . ' 7 4 7 9 . ' 9 7 2 ' o * x n j m ² n q w m { . " o q m c f . " q n - k p c + . ' 3 7 0 X K K K 0 4 2 2 3 . ' U Y . ' L o ' R t g k u n g t " n i v o : 4 5 0 X 0 4 2 2 8 0 [2 0] 4 2 . " J q t p f " N w c p * q d g e " N w c p { " p c f " P l u q w + . ' 7 4 7 9 . ' 8 9 2 ' o . " t { d p f m " m f u a m . ' 3 9 0 X 0 4 2 2 5 0 [2 1] H o r n i M a x o v * q d g e " N w c p { " p c f " P l u q w + . ' 7 4 7 9 . ' 9 2 2 / 9 5 2 ' o < [2 1 a] " o q m k p { " w u k n p k e g " u o " t " J q t p f " N w c p { . ' 3 ; 0 X K 0 4 2 2 4 = [2 1 b] " r q v g m . " o q m k p { " c " n q w m { " w m q u y g n c . ' 4 7 0 X 0 4 2 2 2 = [2 1 c] " r q v g m . " o q m k p { . " t g m t g c p f e j c n w r { " w u k n / p k e g " u o " t " L a q u h x " F n . ' 4 7 0 X 0 4 2 2 2 0 [2 2] H o r n i P o l t o l i c e * q d g e " R g t v q m k e g . ' 7 2 7 8 . ' 5 2 2 ' o < [2 2 a] " J t c p k p f " t { d p f m . " o q m k p { " w x v q m w . ' 3 0 X K 0 4 2 2 7 = " f w q . " r q f o a " g p " q n - k p c . ' 4 6 0 X 0 / : 0 Z 0 4 2 2 9 . " D V . " O V . R V = [2 2 b] " m a m x " t { d p f m * o q m k p { + . ' 3 0 X K 0 4 2 2 7 0 [2 3] H o r n i P o l u b n y * q d g e " M q g p q x + . ' 7 4 7 . ' 9 2 2 ' o < [2 3 a] " o q m c f . " r q v g m u o t " P q x { " F q o m { . ' 4 6 0 X 0 4 2 2 2 = [2 3 b] " o q m c f { . " n q w m { . " r q v g m x " A f q m " l x o " q f " q d e g . ' 5 2 0 X 0 4 2 2 7 . ' 3 ; 0 X K 0 4 2 2 8 0 [2 4] J t c d v i e g * q d g e " L c p q x " p c f " P l u q w + . ' 7 4 7 9 . ' 9 7 2 ' o < [2 4 a] " o q m c f " r q f " e j c v q w " C t p k m c . ' 4 5 0 X 0 4 2 2 4 . ' U Y . ' L o ' L g f l g m (" R o " X q p k m c " n i v o [2 4 b] " x n j m ² n q w m c " r q f " e j c v q w " V g u c p m c . ' 4 5 0 X 0 4 2 2 4 = [2 4 c] " r q v q m " V k e j a a " f m c ' x n j m ² n q w m { " w d " x c n ² L o d n q u g e m ² e j c v { . ' 4 5 0 X 0 4 2 2 4 0 [2 5] J t c p k p a * q d g e " L c p q x " p c f " P l u q w + . ' 7 4 7 8 . ' 8 7 2 ' o * n q w m c . " r t c o g p k - v + . ' 4 5 0 X 0 4 2 2 4 0 [2 6] J a b l o n e c n a d N i s o u . ' 7 4 7 9 . ' 7 2 2 ' o . " x q f p p " p " f t f l " O - g p o * o q m k p { . " r t c o g p k - v . " r q v q m + . ' 3 9 0 X 0 4 2 2 5 0 [2 7] 4 9 . " L g f n q x " f " n R T . ' 7 4 7 9 . ' 8 9 2 ' o . " r q v q m " L g f n q x a . ' 3 ; 0 / 5 2 0 X 0 4 2 2 7 . ' 3 8 0 X 0 / 8 0 X K K 0 4 2 2 7 . " O V o [2 8] 4 . " L l p f k e j q x m " o q m c f " R R . ' 7 4 7 9 . ' 8 2 2 ' o . ' 3 9 0 X 0 4 2 2 5 0 [2 9] 4 5 . " L k g n p r q f " D w m q x q w . ' 7 4 7 9 . ' 7 7 2 ' o . " x n j m ² n q w m { " p c f " q d e f " u o t " J q t p f " N w c p { . ' 3 9 0 X 0 4 2 2 5 0 [3 0] J i z e r k a * q d g e " M q g p q x + . ' 7 3 7 . ' . : 8 2 / ; 3 2 ' o * r q f ² n u k n p k e g + . ' 3 5 0 X 0 4 2 2 3 . ' U Y . ' R o " N c w y t g t " n i v o [3 1] K a r l o v * q d g e " L q u h x " F n . ' 7 4 7 9 . ' 9 2 2 ' o . " r q v q m " V k e j a a " f m c . ' 4 7 0 X 0 4 2 2 2 . ' 4 5 0 X 0 4 2 2 4 0 [3 2] 5 4 . " M q g p q x . ' 7 4 7 . ' 8 : 2 ' o . " r q v q m . " o q m k p { " r q f " f l g n o " u w c p k e f . ' 3 ; 0 X K 0 4 2 2 8 0 [3 3] 5 5 . " M t * 5 6 * U w f a * p m c * q d g e " N k d g t g e . ' 7 3 7 8 . ' 5 : 2 ' o * o q m c f . " r q v g m + . ' 8 0 X K K K 0 4 2 2 3 . ' U Y . ' L o ' R t g k u n g t " n i v o : 3 ; 0 X K 0 4 2 2 5 0 [3 4] 5 6 . " M f l i q x " j e t " R T . ' 7 2 7 8 . ' 5 4 2 ' o . " o q m k p { " w " g m " o f . " f ² . ' 5 3 0 X 0 4 2 2 6 0 [3 5] K u n r a t i c e . ' 7 2 7 8 . ' 4 : 2 ' o . " o q m c f " w " r e u v x k p { . ' 4 4 0 X 0 4 2 2 8 0 [3 6] 5 8 . " N a | p " N k d x g t f c . ' 7 3 7 9 . ' 6 2 2 ' o < [3 6 a] " r e u v x k p { " p c x " e j q f p o " q m t c l k " q d e g * m t x c p . " r q v g m + . ' 4 2 0 X 0 4 2 2 4 = [3 6 b] " N k d x g t f u m " t { d p f m . " N k d x g t f u m " r q v q m . ' 4 2 0 X 0 4 2 2 4 . ' 3 ; 0 X K 0 4 2 2 5 * u o { m " m o g p " q n - f " r q f " g - v k + . ' 3 0 X 0 4 2 2 6 0 [3 7] 5 9 . " N k d g t e / T w r t e j v i e g . ' 7 4 7 8 . ' 6 7 2 ' o . " x { u e j n " r q v g m u x g x t p " q f " U v t a f l p j q " d w m c . ' 3 8 0 X 0 4 2 2 5 0 [3 8] 5 5 . " N w c p { " p c f " P l u q w + . ' 7 4 7 9 . ' 8 2 2 ' o < [3 9 a] " x n j m ² n q w m { " u x g x t p " q f " q d e g . ' 3 8 0 X K K K 0 4 2 2 6 . ' U Y . ' L o ' R t g k u n g t " n i v o [3 9] 5 5 . " N w c p { " p c f " P l u q w + . ' 7 4 7 9 . ' 8 2 2 ' o < [3 9 a] " x n j m ² n q w m { " u x g x t p " q f " q d e g . ' 3 9 0 X 0 4 2 2 5 = [3 9 b] " x n j m ² n q w m { " w m q w r c n k - v . ' 3 9 0 X 0 4 2 2 5 0 [4 0] 6 2 . " N w f x m q x " r q f " U o t m g o * q d g e " P q x ² " O u v a " r q f " U o t m g o + . ' 7 2 7 9 . ' 6 5 2 ' o < [4 0 a] " r e u v x k p { " | a r c f p " q f " q d e g . ' 4 2 0 X 0 4 2 2 8 = [4 0 b] " v t c e p " r q v q m . ' 4 2 0 X 0 4 2 2 4 0 [4 1] M a l a U v t c e p " R T . ' 7 4 7 9 . ' 9 2 2 / 9 4 2 ' o * x n j m ² n q w m { . " o q m c f { . " t { d p f m . " r q v q m + . ' 4 7 0 X 0 4 2 2 2 . ' 4 5 0 X 0 4 2 2 4 = 3 9 0 / 4 5 0 X 0 4 2 2 4 . " [R V = 3 2 0 / 4 8 0 X 0 4 2 2 5 . " O V = 4 0 X 0 4 2 2 6 0 [4 2] M a r i a n s k o h o r s k e b o u d y * q d g e " C n d t g e j v k k | g t u m e j j q t * e j + . ' 7 4 7 9 . ' 9 7 2 ' o * o q m k p { . " u v t w f l m c " w e j c n w r + . ' 3 ; 0 / 4 2 0 X 0 4 2 2 3 0 [4 3] 6 5 . " O g e p f t { " U o f ² " R T . ' 7 2 7 8 . ' 4 4 2 ' o < [4 3 a] " t { d p f m " F w d a m * o q m / k p { + . : 0 X 0 4 2 2 6 . ' U Y . ' L o ' L g f l g m (" R o " L t g k u n g t " n i v o : 5 3 0 X 0 4 2 2 7 = ' 3 ; 0 X K K K 0 / 6 0 X 0 4 2 2 7 . " G V * l k f p f " d v j " t { d p f m c + " [4 3 b] " t { d p f m u x o " q f " t { d p f m w " F w d a m * o q m c f . " r q f o a " g p " q n - k p c + . ' 5 3 0 X 0 4 2 2 7 = 4 4 0 X 0 / 7 0 X K K 0 4 2 2 7 . " O V = [4 3 c] " J x | f k e q x a v " u | o " q f " t { d p f m w " F w d a m . : 0 X 0 4 2 2 6 = [4 3 d] " c r m q x c v " w q u e c f " R g f n p e g . " : 0 X 0 4 2 2 6 0 [4 4] M i n k o v i c e * q d g e " X k - q x a + . ' 7 2 7 8 . ' 4 7 2 ' o * r q v q m . " o q m c f { + . ' 4 4 0 X 0 4 2 2 8 0 [4 5] M n i s e k . ' 7 3 7 8 . ' 5 : 2 ' o < [4 5 a] " u n g r k f " u v t w q j c . ' 3 8 0 X 0 4 2 2 5 = [4 5 b] " x n j m ² n q w m { " w f l g n o " u w c p k e g . ' 4 6 0 X 0 4 2 2 5 . ' U Y . ' L o ' R t g k u n g t " n i v o : 3 8 0 X 0 4 2 2 5 0 [4 6] N o v a l o u k a P R . ' 7 3 7 8 / 7 3 7 9 . ' 9 9 2 ' o < [4 6 a] " d n c p ² j q " r q v q m c * t - g n k p p a u o t k p c + . ' 5 2 0 X 0 / 3 9 0 X 0 4 2 2 4 . ' 7 0 / 3 9 0 X 0 4 2 2 4 . ' 4 : 0 X 0 / 3 2 0 X K K 0 4 2 2 4 . " x - g " O V o [4 6 b] " q m t c l " u o t m g o ² j q " n g u c * g z m t g o g p v { | x g t . ' 4 4 0 X 0 4 2 2 4 0 [4 7] 6 9 . " P q x " X m c * q d g e " M q g p q x + . ' 7 4 7 . ' 9 7 2 ' o * x n j m ² n q w m { + . ' 3 ; 0 X K 0 4 2 2 4 0 [4 8] 6 : . " P q x ² " O u v a " r q f " U o t m g o . ' 7 2 7 9 . ' 7 7 2 ' o . " W u r a n g p ² j q r q f { " x n j m ² n q w m { . " u v t w q j { + . ' 4 2 0 X 0 4 2 2 4 0 [4 9] N o v i n a * q d g e " F g u p " x L k | g t u m e j j q t * e j + . ' 7 4 7 9 . ' 9 7 2 ' o < [4 9 a] " t c - g n k p k - v . " u v t w f l m { " r " u k n p k e k " u o t " U q w - . ' 4 6 0 X 0 4 2 2 2 = [4 9 b] " n w p " r t c o g p k - v " x q u e f . ' 4 6 0 X 0 4 2 2 2 0 [5 0] 7 2 . " P q x { " F q o m * q d g e " F g u p " x L k | g t u m e j j q t * e j + . ' 7 4 7 . ' 9 7 2 ' o * n w p " r t c o g p k - v " r q v g m + . ' 4 6 0 X 0 4 2 2 2 0 [5 1] 7 3 . " Q n f k e j q x a " J P * l e j . ' 7 3 7 8 . ' 6 2 2 ' o < [5 1 a] " a v " P c " R i m " e j . " r q v q m " L g k e g * n q w m { . " c j t c f c + . ' 3 ; 0 X K 0 4 2 2 3 = [5 1 b] " a u v D g w ² o . " r q v q m " O c n " L g k e g * r e u v x k p { . " r t c o g p k - v + . ' 3 ; 0 X K 0 4 2 2 5 0 [5 2] 7 4 . " Q n f k e j q x u m ² h g f q . ' 7 3 7 8 . ' 7 2 2 ' o . " X l p k p a * r e g u c * d w k p c + . ' 3 9 0 X 0 / 5 0 X 0 4 2 2 5 . ' 5 0 / 3 ; 0 X K 0 4 2 2 5 . " x - g " [R V o [5 3] P a s e / k y n a d J i z e r o u . ' 7 4 7 . ' 7 9 2 ' o . " O c m q x m " r q v q m * q m t c l " n g u c + . : 0 X 0 4 2 2 6 0 [5 4] P e k l o * q d g e " T e u r g p e x c + . ' 7 3 7 9 . ' 5 7 2 ' o < [5 4 a] " R g m g n u m " r q v q m . ' 3 ; 0 X K 0 4 2 2 5 = [5 4 b] " t { d p f m " R g v t * r f v q m + . ' 3 ; 0 X K 0 4 2 2 5 0 [5 5] P l a v y . ' 7 4 7 9 . ' 6 2 2 ' o < [5 5 a] " a v " P c " R i m " e j . " u o j ² " r q v q m c * t { d p f m . " n g u p r " r q v q m + . ' 4 5 0 X 0 4 2 2 8 0 [5 6] P o l e d n i k * x t e j q n . " P R T " L k | g t u m q j q t u m ² d w k p { + . ' 7 3 7 8 . ' 7 2 ' o * d w k p c + . ' 4 0 / 4 7 0 X 0 4 2 2 6 . " O V = 5 2 0 X K K 0 / 3 6 0 X K K 0 4 2 2 6 . " [R V = p a x p c f c] j p l o [5 7] P o u s t e c k a o b o r a * x e j q f p " q f " q u c /

f{"Rqvwmc."qdge"Xk- qx+."7278."4:2"o."Dwnqxum "rqvqm."ngupf"t{dpfm{."440XK042280}[58] Pustiny*^oqdge" Fgup^o x"lk|gtum ej"jqt^oej+."7479/747:."872"o."rqv m{c"rtcogpk-v "rqf"n{flc um o"xngng o."450X042220}[7];_Tcf keg^oqdge"Nkdgtge:".7378."622"o."Rgvtxqc"mcrg^o*xnjm^o"nqw mc."rqv gm+."3;0XK042250}[82_ "T^ofnq"/pcf"mqwrnk-v o" PP."7478."772"o."oqm cf."xnjm^o"nqwmc."520XK042230."U Y."L0"Rtgkngt"ni v0"[61] Raspenava."7278/7378."542/572"o< [61a] J cmgp x"t{dpfm."rqvqm^oqnrkej^ouvtwwfm{."p^ojqpr"rtq"o cnqw"ngmvt^otpw."rcuwxlp{+."420XK04223."530X04226="[61b] Jqwdq^orqvqm."o qm cf"rqf"flg^ovtc{f."440XK04228="[61c] Hctum^o"nqwmc."520XK04225."U Y."L0"Rtgkngt"ni v0="[61d] Rgmgn/ um "rqvqm."3:0XK04225."30XK04226="[61e] uqwvqm"o f^o2"cnq o pkeg."420XK04223="[61f] v "X^orgpmc^o |cvqrgp "nq o" rrf"X^orgpp o" xtejg o+."420XK042230}[84_ "Tc-gnkp-k v "Lk|gt{ NPR<[62a] X^oOq^o ngej^o"su|0" ^ouv+."7379:."92"o" *tc-gnkp-k^o uot kpc+."430XK04223."U Y."L0"lgflgm" ("R0"Xqpk mc"ni v0="390X0/60XK04224."60/390XK04224."390/4:0XK04224." x-g"OV="[62b] qmqn^oMt^oup^o2"jq^orqvqm^o*uv gf p^o" ^ouv+."tc-gnkp-k v ."430XK04223="[62c] Xgnm^o"Lk|gtum^o"nqwmc^o*x0" ^ouv."ux0" qf"RT"t{d^ofnqw m{+."737:."52"o"*tc-gnkp-k v ."tc-gnkp-k^o uot kpc."d gj "Lk|gt{+."430XK04223"*nqwflg^ow"ngup^oeguv{+."U Y." L0"lgflgm" ("R0"Xqpk mc"ni v0="40XK04223."U Y."L0"Rtgkngt"ni v0"[63] Rejdice^oqdge" Mq gpqx+."747:."822/872"o< [63a] rrvqm^o Lg-mtcdge^o*uxcj qx^o2"rtcogpk-v +."50XK04226."L0"lgflgm" ("L0"Rtgkngt"ni v0=";0KZ04226-520X04227-520X0/380XK04227." 380XK04227/30KZ04227."30/440KZ04227."x-g"GV="[63b] e jcv<"Repqtc o c^oqmtcl^onguc."o qm cf."utwflmc+."390XK04224- "[63c] rrp|kq^oJ cto p q^o"r^ofqm^orqvqm<Lg-mtcdge^o o qm cf+."520X042270"[64] Rudolfov^oqdge"Nkdgtge+."7478."852"o< [64a] W^ongmvt^otp{^o*rtcogpk-v"ukpkeg."utwflmc+."440X04224="[64b] gum^oejcnwrc^o*ngup^o oq^o n{^ouo t^oDgf kejxum^o2" ugfnq+."440X042240"[65] T{d^ofnqw m{"RT."737:."72"o"*tc-gnkp-k v +."430XK04223."U Y."L0"lgflgm" ("R0"Xqpk mc"ni v0=" 390/4;0X04225."OV "[66] Umngpc keg^oqdge"X{uqm^opcf" Lk|gtqw+."747:."772/782"o< [66a] rtcogpk-v ."rqvqm:."0KZ04226." U Y."L0"Rtgkngt" ("L0"lgflgm"ni v0="[66b] qucf<"C o gtkmc^o*ngup^o rrvqm+."0KZ04226."U Y."L0"Rtgkngt"ni v0"[67] Uic fm^oF{tfc^o qdge"Vcpxcnf+."7479."822"o< [67a] ngup^o rrv gm."3:0XK04224="[67b] rrv gm."o qm kp{"og|k^oejcnwrc o k."3:0XK042240" [68] U o tm^o*o cux^o jqt{+."7379: [68a] Xgnm^oT{d^ofnqw m{^oqmf<^oo quv+."22"o"*umt^o r p^oumcp^ouv pc."tq|uv kmw|ef^oug^oxqfc." ngu."420XK04224."420XK04228="[68b] Nkdxgt fum^o o quv."922"o."d gj"v\tecp^o2"jq^orqvqm^o*ngup^ortcogpk-v +."420XK042280" [69] U o tflqxm<."7479."7:2"o< [69a] r^ofqm^oMcogpkge."rqf"flng|pk p^o o"xkcfwmgv o."3;0XK04224="[69b] U o tflqxm "rqvqm^ou o t^oJ qtp^oNw cp{+."3;0XK042240"[70] Uqw^o*qdge" Fgup^ox"lk|gtum ej"jqt^oej+."7479."972"o."x vqm|"xqfp^o p^of tflg+."440X042240"[71] Ux v^o*qdge"Vcpxcnf+."747:."922"o< [71a] rrp|kq^oUv jw tmc^o*ngup^o utwflm{ "c" o qm cf{+." 3:0XK04224="[71b] o cn "xqfp^otg|gtqx^ot^ou o t^oR fe jxqkeg^o o qm kp{."nqwm{."utwflm{ "w"ukpkeg+."3:0XK042240"[72] T^oqn/ e x^ot{dpfm^o*lkfp "qf"qdeg"Teurgpcx+."7378."572"o."J qnwd^o rrvqm^o o qm cf{ "x"qn-kp +."3;0XK04223."U Y."L0"lgflgm" ("R0"Xqpk mc"ni v0="340XK04223."U Y."R0"Xqpk mc"ni v0="520X0/390X04224."4:0XK0/320XK04224."320XK0/30XK04224."x-g" O V "[73] Viej^o a^o f^omc"RR."747:."972"o"*xnjm^o"nqw m{."tc-gnkp-k v +."450X04224-520XK0/360XK04226."O V "[74] Tor/ hq ykum^oO^ol^o umkg^od x0^oY kgnmc^oK|gtc."RN+."737:."72"o."Leipkge{ "rqvqm^o*tc-gnkp-k^ouv pc"x -m{^o5"o utvflgp^o"f^oq^orqvq/ mc+."90KZ042260"[75] U Kyselky^o*lkfp "qf"qdeg" Pqx^o2"O uvq"rqf"U o tmg o+."7479."822"o."A^ofnq^o v\tecp^o2"jq^orqvqm<^o o qm cf."rtcogpk-v ."ngu."d gj"rqvqm+."420XK04224."420XK04228="350XK0/50XK04228."O V "[76] X^oencx^omqxc^oUwv/ danka^oqdge" Mq gpqx+."747:."72"o"*o qm cf."xnjm^o"nqwmc+."3;0XK042280"[77] X vtqx^oqdge" Ht fncp+."7378."5:2"o." rrvqm^oQng-mc^opkxc."o qm cf{+."420XK042230"[78] Xtevkunxieg^opcf^oF^oPhuq^o*qdge" Nkdgtge+."7478."592"o."420KZ04228." U Y."L0"Rtgkngt"ni v0"[79] Zlatá Olešnice."747:."[79a] ^ouv" P^oxctqxum^o."822"o"*^ouv p^ortcogpk-v +."390XK04224." 50XK04226="[79b] rrcxqvtepp^o r^ofqm^oFtc^o j^oq^orqvqm<^oo qm cf" w^omtcx^opc."752"o.";0KZ04226."U Y."L0"lgflgm" ("L0"Rtgku/ ngt"ni v0="440XK04227."U Y."R0" E jxqlmc^oni v0="[79c] Ftc^o rrvqm^o r gf^oAuv^o o^of q^o"ncvpmw."682"o"*o qm kp{+."50XK04226." ;0KZ04226="[79d] rrcxqvtepp^o r^ofqm^oFtc^o j^oq^orqvqm<^oo qm kp{"^o rcfp^o qf^oqucf{"C o gtkmc."782"o.";0KZ042260

X UNGFM["C" FKUMWUG

R gjngf" |lk-v p ej"ftwj

Rqwfkv² |mtcvm{<"B!" o^opqx "ftwj" rrtq^o gej{0" U^oo^omcvgiqtke|" gtxgp²jq^oug|pc o w^o qj tqflgp ej"ftwj "dg|qdtcvn ej" T^o*Lgflgm"4227+<"CR"o^omtkvem{ "qj tqflgp ."EN"o^oqj tqflgp ." XW"o^o|tcpkvgnp "ftwj"0

Sycorax silacea Ewtku."3:5;

Nqm^onp "jqlp" gxtqrum "ftwj"rtcogpk- ."tq|f^ogp "x|"a rcfp^oGxtqr "x gvp "Dtkvum ej"quv/ tqx ."uv^ovgej^ouv gf p^oGxtqr {"pc"ugxgtw"xg"Umcp fkp^oxk."lkfp "pc"Cr gpkpum^o o "c"Denm^opum^o o " rqqqvutqx^o*Lgflgm"3; ;8c+0"Ej {d^opc"R{ tsgplum^o o "rqqqvutqx "c"xg^ox ej qfp^oGxtqr 0

gum^o w o dwtm [9]<390XK04224" c"520X04227."4" 0Horní Pertoltice [22a]<30XK04227."3" 0Karlovo [31]<470X04222." 3" 0M flqx "xtej"RT [34]<530X04226."3" 0Ocn^oUvtcpc"RT [41]<390/450X04224."3" 0Qnf kej qxum^ougfnq [52]< 390X0/50XK0^oc"50/3;0XK04225."4" 0Pustiny [58]<450X04222."3" 0Rejdice [63c]<520X04227."3" 0

Sycorax tonnoiri Lwpi."3;76" U<"CR
Gxtqrum "ftwj"|p^ao "|P o gemc." gum²tgrwdnkm{"Unqxpumc."Dwnj ctumc."Unqxpumc" c"Dqup{"
*Lgflgm"4226d+0"Nctx{"ug"x{xflglf|r gfgx-f|o"x"ngupf"ej"rtc o gpk-vf|ej|o
gum "mw o dwtm [9]<390XK04224."3" 0"Qnf kejqxum"ugfnq [52]<50/3;0XK04225."3" 0"Plavy [55]<450XK04228."3" 0

Oomormia andrenipes *Uvtqdn."3;32+" U<"CR
Rq o tp "x"|^aep "ftwj"tgi kувtqxc p "xg"Xgnm²"Dtkv^apkk." gum²tgrwdnkeg."Unqxpumw."Tcmqwumw."
Unqxpumw" c"Dqup " *Lgflgm"3; :6c+0"
Rejdice [63a]<520X0/380XK04227."3" 0

Promormia eatoni *Vqppqkt."3;62+" U<"EN
Pgjqlp "gxtqrum "ftwj"tgi kувtqxc p "x"Dgnikk."P o gemw."F^apumw." gum²tgrwdnkeg."Unqxpumw."
Tcmqwumw."Dqup "c" gemw"*Lgflgm"4228d+0"X{um{vwlg"ug"qf"pflkp"rq"jqtum²"nqmcnk v{0"
Minkovice [44]<440XK04228."3" 0"Raspnava [61f]<420XK04223."3" 0

Jungiella *u⁰uvt⁰+"hygrophila Lgflgm."3; :9
\cvf|o"n|g"ftwj"|qqiqgitcLem{"mncukLmqxcv"upcf"rqw|g"lcmq"uv gfgqxtqrum ."lg"tgi kувtqx^ap"
pc"pgrq gvp ej"nqmcnk v^aej" gej" c"Oqtcx{."o pqj f{"x"r f|vq o pqvk"Jungiella soleata *Ycmngt."
3:78+"c"J. valachica *Xckmcpv."3;85+0 P {pfl|lk-v p"l"x"Rqnumw"*Lgflgm"3; :9."4229+0
M flq x "xtej"RT [34]<530X04226."3" 0"Ogcpft{"U o f²"RT [43b]<530X04227."3" 0"Raspnava [61d]<30XK04226."
3" 0

Jungiella *u⁰uvt⁰+"soleata *Ycmngt."3:78+
Jqlp "ftwj"tq|-f|gp "v²o "rq"egn²"Gxtqr "x gvp "Dtkvum ej"quvtqx ."cng"ej{d|pc"R{tgppl/
um²o" rqnqquvtqx "c" xg"Umc p fkp^axkk0"D{n"tgi kувtqx^ap"vc m²"x"ugxgt p|o "t^apw"*Lgflgm"4226d+0"
X{um{vwlg"ug"qf"pflkp"rq"x{uqm qjqtum²"dkqvqr{0"
Bílý Potok [5a]<530X04226."3" 0" Bulovka [7a]<30XK04227."3" 0" M flq x "xtej"RT [34]<530X04226."3" 0"Raspnava
[61d]<30XK04226."3" 0

Jungiella *u⁰uvt⁰+"valachica *Xckmcpv."3;85+
Nqm^anp "jqlp "ftwj"|p^ao "|Rqnumc." gum²tgrwdnkm{"Tcmqwumc."Tm^x ectumc" c"Dcm^apum ej"
uv^av " *Lgflgm"4226d." Ykvjgtu"4227+0"X{um{vwlg"ug"x"pflkp^aej" c"rcjqtmcvkp^aej|o"
M flq x "xtej"RT [34]<530X04226."3" 0

Panimerus denticulatus Mtgm."3;93
D flp "gxtqrum "ftwj"x{um{vwl|e|ug"pc" Dtkvum ej"quvtqxgej."x" gum²tgrwdnkeg."Rqnumw."
Tcmqwumw" c"Dcm^apum ej"uv^avgej" *Lgflgm"4226d+0" Pcf o q um^ax -mc"pgp|tq|jqfwl|e|o"
Mnišek [45b]<380XK04225."3" 0

Parajungiella ellisi *Ykvjgtu."3; :9+" U<"CR
X|^aep "gxtqrumq/|^arcfqukd k um "ftwj"*Lgflgm"4225+|p^ao "|Xgnm²"Dtkv^apkg." gum²tgrwdnkm{"
c"Twumc"*Ukd +0"
Ogcpft{"U o f²"RT [43a]<530X04227."3" 0

Parajungiella longicornis *Vqppqkt."3;3;+
Xgn o k"jqlp "gxtqrumq/|^arcfqukd k um "ftwj"tq|-f|gp "xg"uv^avgej"rqf²n"Ugxgt p|jq"o o q g"
c"pc"Dtkvum ej"quvtqxgej."xg"uv gfp|c"x ejqfp|"Gxtqr "cfl"rq"Pqxqukdktumq w"qdnucv"x"Twumw0"

Pgluxgtp 1-¶|ngf¶|xg"Umcpfkip^axkk" c"pgllkfp 1-¶|pc"Dcnm^apum² o" rqnqquvtqx " *Lgflgm" 3; ; 7c."3; ; 4+0

Bulovka [7b]<30XK04227."3" 0"**Frýdlant [16a,b]**<3; 0/420XK04223."4" 0"**Horní Pertoltice [22b]**<30XK04227."3" 0"**M flqix "xtej"RT [34]**<530X04226."3" 0"**Ogcpft{"U o f²RT [43a,b]**<530X04227."4" 0

Parajungiella prikryli Lgflgm."3; ; ;" U<"**XW**
X|^aep "ftwj"uv gfp¶|Gxtqr{.fquwf"pgud¶|tcp "okoq" gumqw"tgrwdnkmw."x{um{vwl¶|e¶|ug"qf"p¶|fkip" rq"rcjqtmcvkp{0" J qnqv{rwu" c" rctcv{r { "luqw" |g"Uqmqqxumc" *Lgflgm"3; ; ; e+." rwdnkmqx^ap" d{n" tqxp fl"|Rqf{1¶|*Lgflgm"gv"cn0"4227+0"

Ogcpft{"U o f²RT [43a,b]<50X0/c:440XK0/70XK04227."6" 0

Parajungiella pseudolongicornis *Ycipgt."3; 97+" U<"**CR**
X|^aep "ftwj."|c|pcogpcc "rqw|g"pc"Dtkvm ej"quvtqxgej."xg"uv gfp¶|Gxtqr "c"pc"Dcnm^apum² o" rqnqquvtqx " *Lgflgm"4225+0"

Dolní Pertoltice [11]<30XK04227."3" 0"**Ogcpft{"U o f²RT [43a]**<530X04227."3" 0

Parajungiella serbica *MtgM."3; ; 7+" U<"**CR**
X|^aep "|glo"uwdogfkvgt^app¶|ftwj|p^ao "rqw|g|"g"Utdumc." gemc." gum²tgrwdnkm{."Unqxp/umc"Rqnumc" *Lgflgm"4225-"Lgflgm" (" I qwvpgt"3; ; 5+0" \ctgi kuvtx^ap" k"pc"gzvt² o p¶|ej"nqmcnk^aej" x u{rgm"rqxtej qx ej"fq n" x"Uqmqqxum² r^apxk" *Lgflgm"3; ; ; e+0"

Bulovka [7b]<30XK04227."3" 0"**Frýdlant [16b]**<3; 0XK04223."3" 0"**Horní Pertoltice [22b]**<30XK04227."3" 0"**Meandry U o f²RT [43a,b]**<530X04227."4" 0"**Zlatá Olešnice [79c]**<50XK04226."3" 0

*Paramormia *Duckhousiella+"ustulata* *Ycnmgt."3; 78+
Fqd g|p^ao "ftwj"v²o " |"egn²"Gxtqr {="x{um{vwlg"ug"vcm²"pc"Mcp^atum ej" c"C|qtum ej"quvtq/xgej."x"Cnfl¶|tumw."Octqmw."K|tcgnk."Vwtgemw."~t^apw."Chij^apkuv^apw" c"WUC" *Lgflgm" (" Dtcxgtocp" 4228="Ycipgt" (" Pkgukqéqyumk"3; ; 8+0"Nctx { "ug"x{x¶|lg¶| " cuvq"x"uwduvt^avgej"xgnok"gzvt² o p¶|jq" e jgokem²jq"unqflgp¶| " okpgt^anp¶|" rtcogp{."uqkxct{."rtqumc{x u{rgm"rqxtej qx ej"wjgnp ej" fq n" .ft dgfl¶|htc o {"crqf0

Frýdlant [16a]<420XK04223."3" 0

*Paramormia *u0"uvt0+"polyascoidea* *MtgM."3; 93+
Pgr ¶|nk-"x|^aep "gxtqrumq|^arcfqukdum "ftwj|p^ao " |" P ogemc." gum²tgrwdnkm{."Rqn/umc."Tcmqwumc."Dqup{"c"|"Pqxqukdktum²qdncuvk"x"Twumw."|cucjw¶|e¶|ux o"ctg^ang o"x um{vw" fq"Cdej^a |kg" *Lgflgm"3; ; 2d+0

Bílý Potok [5b]<40XK04227."3" 0"**Frýdlant [16b]**<3; 0XK04223."3" 0"**Ogcpft{"U o f²RT [43b]**<530X04227."3" 0

Peripsychoda auriculata *Ewtvku."3; 5; +
Xgnok"jqlp "gxtqrumq/vtcpumcxmc|um "ftwj."lgjqfl"ctg^an"tq|_¶|gp¶| |cd¶|t^ax v-kpw" Gxtqr { "c|cucjwlg"fq"Cdej^a |kg" c" I tw|kg" *Lgflgm"4226d+0" Pgd{n|lk-v p"pc"R{tgpplum² o" rqnqquvtqx ." x ejqfp "qf"Rqnumc" c"x"lkflp¶|ej" ^auvgej"Dcnm^apum² jq" rqnqquvtqx c0

Bulovka [7a,b]<30XK04227."4" 0"**Dolní Pertoltice [11]**<30XK04227."3" 0"**Hqlvgem "o qm cf"RR [14]**<3; 0XK04225."4" 0"**Frýdlant [16b]**<3; 0/420XK04223."4" 0"**Hejnice [18a]**<40XK04228."3" 0"**Horní Pertoltice [22b]**<30XK04227."3" 0"**Mt^aup^a"Uvuf^apmc [33]**<3; 0XK04225."3" 0"**M flqix "xtej"RT [34]**<530X04226."3" 0"**N^a |p "Nkdxgtfc [36b]**<420XK04224" c"3; 0XK04225."4" 0"**Ogcpft{"U o f²RT [43b]**<530X0/c:440XK0/70XK04227."4" 0"**Minkovice [44]**<440XK04228."3" 0"**Peklo [54a]**<3; 0XK04225."5" 0"**Raspenava [61b]**<440XK04228."3" 0"**X vtqx"j99_**<420XK04223."3" 0"**Zlatá Olešnice [79b]**<440XK04227."3" 0

Psycmera integella *Lwpi."3;78+ U<CR
Gxtqrumq/|^arcfqukd um "ftwj"tgikvqtqxc "x" P o gemw." gum²tgrwdnkeg."Rqnumw."Dqup " c"Jgtegiqxkp "c"x"Pqxqukdktum²qdcncuvk"x"Twumw*^aLgflgm"3; ;4."4229+0"X{um{vwlg"ug"qf"p^aflkp" rq"rcjqtmcvkv{0"

Frýdlant [16b]<3;0XK04223."3" 0"**Horní Pertoltice [22b]**<30XK04227."3" 0"**Mt^aup^aUv^avf^apmc [33]**<3;0XK04225."3" 0"**Ogcpft{Uo f²RT [43a,b]**<530X0^c3;0XKKK0/60KZ04227."5" 0"**Minkovice [44]**<440XK04228."3" 0

Telmatoscopus carthusianus *Xckncpv."3;94+
Nqm^anp "jqlp "gxtqrum "ftwj"x{um{vwl^afe^aug"qf"p^aflkp"rq"jqt{."|ctgikvqtqxc "fqrquwf"Xg^aHtcp/ ekk."P o gemw." gum²tgrwdnkeg."Rqnumw"c"Unqxpumw*^aLgflgm"4225."4229+0

Horní Polubný [23b]<3;0XK04228."3" 0"**flqx "xtej"RT [34]**<530X04226."3" 0"**Raspenava [61a]**<530X04226."3" 0"**Rejdice [63a]**<50XK04226."5" 0

Telmatoscopus gressicus *Xckncpv."3;94+
Nqm^anp "jqlp "gxtqrum "ftwj"x{um{vwl^afe^aug"qf"p^aflkp"rq"jqt{."jn^a-gp " |"Htcpekg." gum²tgrwdnkm{."Rqnumc"c"TCmqwumc*^aLgflgm"4226d+0"

Bílý Potok [5a,b]<40XK04227."4" 0" gum²w o dwtm [9]<520X04227."3" 0"**Hqlvgem "o qm cf"RR [14]**<3;0XK04225."3" 0"**Jtcpk p^a [25]**<450X04224."3" 0"**flqx "xtej"RT [34]**<530X04226."3" 0"**Ogcpft{Uo f²RT [43b]**<530X04227."3" 0"**Rejdice [63a,c]**<520XK04226."520X0^c520X0/380XK04227."5" 0"**Uncf^aF^atc [67b]**<3;0XK04224."3" 0"**Zlatá Olešnice [79c]**<50XK04226."3" 0

Telmatoscopus labeculosus *Gcvqp."3; ;5+ U<EN
Nkvt^atp^aÁfclg<D^an "Rqvqm."Hqlvgem "o qm cf"RR"l^akpf kejqxum "o qm cf"RR"N^a|p "Nkdxgtfc."Nw cp{ "pcf" Pkuqw." Op^a-gm."Qnf kejqx"x"J^aI^aej."Rgm^a*^aLgflgm"4228f+0
Ftwj|p^a o "rqw|g|"Htcpekg."Dgnikg."F^apumc." gum²tgrwdnkm{ "c"Dtkvum ej"quvtqx 0"

Bílý Potok [5a,b,c]<530X04226^c40/50XK04227."5" 0"**Dolní Pertoltice [11]**<30XK04227."3" 0"**Hejnice [18a]**<40XK04228."3" 0"**Kunratice [35]**<440XK04228."3" 0"**Ogcpft{Uo f²RT [43a,b]**<530X04227."4" 0"**Raspenava [61b]**<440XK04228."3" 0

Feuerborniella obscura *Vqppqkt."3;3;+
D flp "gxtqrum "ftwj."lgjqflctg^an|q|-^afl gp^al^ar^amt x^auv^av{"r k^aUgxgtp^ao"oq k^ax gvp "Dtkvum ej" quvtqx ."uv gfp^aGxtqrw."Crgpkpum "c"Dcn^apum "rqnquvtqx*^aLgflgm"3; ;4:"Lgflgm" ("Iqwpgt" 3; ;7+0"Nctx{"ug"x{x^aflgl^ax"rte o gpk-v^aej"pc"mc o gpej"rmt{v ej"x^ajm o"ogejgo"
Ogcpft{Uo f²RT [43b]<440XK0/70XK04227."3" 0"**Minkovice [44]**<440XK04228."3" 0"**Peklo [54a]**<3;0XK04225."3" 0"**Raspenava [61b]**<440XK04228."3" 0

Philosepedon balkanicum Mtgm."3;93" U<CR
Gxtqrum "ftwj|p^a o "rqw|g|"Dqup{c"Jgtegiqxkp{." gum²tgrwdnkm{."Unqxpumc"c"P o gemc="gzkuvwl^atqxp fl"rwdnkmqxcp²Áfclg|"Cdej^a|kg*^aLgflgm"4226d+0
T{d^anqw m{RT [65]<390/4;0X04225."3" 0"**U Kyselky [75]**<350XKK0/50XKK04228."3" 0

Philosepedon hrudkai Lgflgm."3; ;;" U<XW
Gxtqrum "ftwj|p^a o "rqw|g|"p mqnkmc"o^anq"nqmcnk^ax" gum²tgrwdnkeg*^aLgflgm"4225+0
c|"P o gemc*^aLgflgm" ("Uejejev"4228+0
Ogcpft{Uo f²RT [43a]<0KZ04226."3" 0

Philosepedon humerale *Ogkigp."3:3:+
Xgnok"jqlp "gxtqrum "ftwj"u"x um{vg o"vcm²x"ugxgtp^aChtkeg."jn^a-gp "v²o " |"egn²Gxtqr {"
*^aLgflgm"3; ;4."3; ;7d+0"X{um{vwlg"ug"qf"p^aflkp"rq"jqt{."kocic"luqw"d flp "qfej{v^ax^apc"ux vgnp ok"
ncrc k0"Nctx{"ug"x{x^aflgl^ax"v ngej"rnfl 0"
Raspenava [61d]<3;0XK04225."3" 0

Threticus lucifugus *Ycmmgt."3:78+

Jqlp "gxtqrum "ftwj"x{x{um{vwl|e|ug"xg"uv"vgej"r k"Ugxtgp|o"o q k."pc"Dtkvum ej"quvtqxgej."xg"uv gfp|Gxtqr "c"pc"Crqpkpum2"o"rqnqqvtxq *Lgflgm"3; :7d+0" P|f|g|w|xf|gp2"Vqthqykumq" Oé{ umkg|lg" vxtqvq"rwdnkmqxcpqw"nqmcnkqvq"vqjvq"ftwjw"|Rqnumc|

Albrechtice v Jizerských horách [1]<450X04222."3" 0" **Dgf kej qx** [3]<440X04224."3" 0" **Bukovec PR** [6a,c]<380/4;0X04225"3;0/420X04229."4" 0" **Dolní Polubný** [12]<450X04222."3" 0" **J tcd vkeg** [24a,c]<450X04224."4" 0" **J tepk p** [25]<450X04224."3" 0" **Lkpf kej qxum** "o qm cf"RR [28]<390X04225."3" 0" **Karlovy Vary** [31]<450X04224."3" 0" **M flq x" xtej"RT** [34]<530X04226."3" 0" **N** |p "Nkdxgtfc [36b]<30X04226."3" 0" **Ocn** "Uvtcpe"RT [41]<470X04222" c"450X04224."4" 0" **Novina** [49a]<460X04222."3" 0" **P qx** {"Fqom [50]<460X04222."3" 0" **Plavy** [55]<450X04228." 3" 0" **Pustiny** [58]<450X04222."3" 0" **Te-gnkp-k-v** "Lk|gt{"PRT [62a]<390X0/60X04224."3" 0" **Rejdice** [63a]<50X0" c";0 KZ04226."380X000/30KZ0" c"30/440KZ04227."8" 0" **Umhgpe keg** [66a]< ;0KZ04226."3" 0" **Vqthqykumq" Oé{ umkg** [74]< 90KZ04226."3" 0" **Zlatá Olešnice** [79b,c,d]< ;0KZ04226."6" 0

Threticus silvaticus Lgflgm."3; :7"

U<XW

Uv gfgqxtqrum "ftwj"u"qlgflkpn o"x um{vg o."|p^a o "fquwf"rqw|g|" gum²"tgrwdnkm{"c"Unq/xkpmc"*Lgflgm"3; :8d."3; ;8c+0

Dolní Polubný [12]<450X04222."3" 0" **M flq x" xtej"RT** [34]<530X04226."3" 0" **Rejdice** [63a]<50X0" c";0KZ04226." 30/440KZ04227."5" 0" **qne x"t{dp|fm** [72]<520X0/390X04224."3" 0" **Zlatá Olešnice** [79b,d]< ;0KZ04226."4" 0

Trichopsychoda hirtella *Vqppqkt."3;3;+

Jqlp "gxtqrum "ftwj"fqw|f"tgikvtxqcp "xg"uv"vgej"r k"Ugxtgp|o"o q k"x gvp "Dtkvum ej" quvtqx ."xg"uv gfp|Gxtqr ."pc"Crqpkpum2"o"Denm^apum2"o"rqnqqvtxq *Lgflgm"3; :4."3; :7d+0" Nctx{"ug"x{x|lg|l"x"|gvngn ej"tquvnp^aej"cxg"ujpkn ej"rnqfgej|

gum²"w o dwtm [9]<390X04224."3" 0" **Frýdlant** [16a]<420X04223."3" 0" **Horní Pertoltice** [22a]<30X04227."3" 0" **Horní Polubný** [23b]<3;0X04228."3" 0" **Jablonec nad Nisou** [26]<390X04225."3" 0" **Lkpf kej qxum** "o qm cf"RR [28]<390X04225."3" 0" **Nw cp** {"pcf"Pluqw [39b]<390X04225."3" 0" **Nw fxfmqx"rqf"**U o tmg o [40a]<420X04228." 3" 0" **Mníšek** [45b]<380X04225."3" 0" **Pqx"Xfume** [47]<3;0X04224."3" 0" **Qnf kej qx"x"J"l|ej** [51a]<3;0X04223." 3" 0" **Plavy** [55]<450X04228."3" 0" **Raspenava** [61d,e]<420X04223" c"3;0X04225."3" .3" 0" **Te-gnkp-k-v** "Lk|gt{"PRT [62a]<70/390X04224."3" 0" **Rejdice** [63a,b]<390X04224."520X0/380X0."380X000/30KZ0" c"30/440KZ04227."6" 0" **Unc fm** "a" **Díra** [67a,b]<3;0X04224."4" 0" **U o tflqxm** [69b]<3;0X04224."3" 0" **qne x"t{dp|fm** [72]<320X00/30X0004224."3" 0" **Xtčvkunxkeg"pcf"Pluqw** [78]<420KZ04228."3" 0" **Zlatá Olešnice** [79c]< ;0KZ04226."3" 0

Chodopsycha lobata *Vqppqkt."3;62+

Gxtqrumq/vtcpumcxmc|um "ftwj"*Lgflgm"4226d+."lgjqlf"nctx{"ug"x{x|lg|l"x"j qwd"ej" *TMgx |m" 4228+|

Lgf nqx" f n"RT [27]<380X00/80X004227."3" 0" **Nidgtge/Xgure** [38]<90X0004226."3" 0" **Nová louka PR** [46a]<4;0X0/320 X004224."3" 0" **Plavy** [55]<450X04228."3" 0" **Te-gnkp-k-v** "Lk|gt{"PRT [62a]<70/390X04224."3" 0" **qne x"t{dp|fm** [72]<4;0X0/320X00" c"320X00/30X0004224."4" 0" **Vkej"m" | mc"RR** [73]<520X00/360X0004226."3" 0" **Xtčvkunxkeg" nad Nisou** [78]<420KZ04228."3" 0" **Zlatá Olešnice** [79c]< ;0KZ04226."3" 0

Logima albipennis * \ gvwgtvufv."3:72+

Mqu o qrqnkvp|ftwj"*Lgflgm" ("Dtcxgt o cp"4228+."gwt{dkqp"0"K o a i c"luqx"pqek"r kvj qx"pc"o l0" o qft o"ux vng o"0"Nctx{"luqw"ucrtqh"i p|0

Ocn "Uvtcpe"RT [41]<320/480X04225."3" 0" **Mariánskohorské boudy** [42]<3;0/420X04223."3" 0" **Nová louka PR** [46a]<520KX0/390X0."70/390X0" c"4;0X0/320X004224."5" 0" **Peklo** [54b]<3;0X04225."3" 0" **Plavy** [55]<450X04228." 3" 0" **Te-gnkp-k-v** "Lk|gt{"PRT [62]<390X0/60X0."70/390X0" c"390/4;0X04224."5" 0" **Rejdice** [63]< ;0KZ04226."3" 0" **T{df|nqw m{"RT** [65]<390/4;0X04225."3" 0" **qne x"t{dp|fm** [72]<520KX0/390X0."4;0X0/320X00" c"320X00/30X0004224." 5" 0" **Vkej"m" | mc"RR** [73]<520X00/360X0004226."3" 0" **Zlatá Olešnice** [79c]< ;0KZ04226."3" 0

Logima erminea *Gcvqp."3: ;5+

Jqlp "rcngctmvkem "ftwj*^oLgflgm"3: ;5c+. "x{um{vwl|e|ug" cuvq"xg"x|qte|ej|"|Ocnckugjq"rcuw|
x"t|p|ej"pcf oq um ej"x -m^aej^oWx^af p|lg"tqxp fl|"|Igm{p|.cng"dkqpq okg|lg"qdgep "xgn ok"
o^anq|p^a o^a

Dgf kejqx"xqfp|p^aftfl [4b]<7"Zl3: ;7."3" 0^oOgcpft{U o f²RT [43a]<:0KZl4226."3" 0^oPeklo [54]<3: 0XK04225."
3" 0^oRejdice [63a]<:0KZ04226."3" 0^oM^oque x"t{dpfm [72]<520KX0/390X0."4: 0XK0/320XKK0c"320XKK0/30XKK04224."3" ."
4" 0^oZlatá Olešnice [79b,c]<:0KZ04226."4" 0

Logima satchelli *Swcvg."3; 77+

Jqlp "jqnctmvkem "ftwj*^oLgflgm" (" [c ek'4227="Swcvg"3; 77+. "gwt{dkpvi^oRtcxkfgnp "qfej {v^axcp " "
xg"x-gej"xjqfp ej"pcf oq um ej"x -m^aej*Ocnckugjq."tqvc p|. "gogtigppv|. "ux vgnp²"rcuw|
x gvp "oqft²jq"ux vnc"cflnwv²"okum{+0

Dgf kejqx"xqfp|p^aftfl [4b]<7"Zl3: ;7."3" 0^o gum "mw o dwtm [9]<390XK04224."3" 0^oFojtka [15b]<380XK04225."
3" 0^oFrydlant [16a]<420XK04223."3" 0^oLgfnqx "f n"RT [27]<3: 0/520X04227."3" 0^oNwfxmqx"rqf"U o tmg o [40b]<
420XK04224."3" 0^oMariánskohorské boudy [42]<3: 0/420XK04223."3" 0^oNová louka PR [46a]<520KX0/390X0c"4: 0XK0/320
XKK04224."4" 0^oPoledník [56]<520XK0/360XKK04226."3" 0^oPoustecká obora [57]<440XK04228."3" 0^oRaspenava
[61d]<30XK04226."3" 0^oTc-gnkp-k-v "Lk|gt{PRT [62a]<390X0/60XK0."70/390XK0c"390/4: 0XK04224."5" 0^oRejdice [63a]<
0KZ04226."520X0/380XK0c"380XKK0/30KZ04227."5" 0^oT{d|^ohqw m{RT [65]<390/4: 0X04225."3" 0^oUmgpc keg [66a]<
0KZ04226."3" 0^oUc fm^aF|tc [67]<3: 0XK04224."3" .3" 0^oU o tflqmc [69a]<3: 0XK04224."3" 0^oM^oque x"t{dpfm [72]<
520KX0/390X0c"4: 0XK0/320XKK04224."4" 0^oU Kyselky [75]<350XK0/50XKK04228."3" 0^oXt cvkuncxieg"pcf"Pluqw [78]<
420KZ04228."3" 0^oZlatá Olešnice [79b,c]<:0KZ04226."4" 0

Logima zetterstedti Lgflgm."3: ;5

Nqm^anp "jqlp "gxtqrumq|^arcfqukd um "ftwj*^oLgflgm" (" [c ek'4227+0"Nctx{"luqw"ucr tqdkppv|^o)

Horní Polubný [23b]<3: 0XK04228."3" 0^oNwfxmqx"rqf"U o tmg o [40b]<420XK04224."3" 0^oNová louka PR [46a]<
520KX0/390X0."70/390XK0c"4: 0XK0/320XKK04224."5" 0^oPaseky nad Jizerou [53]<:0KZ04226."3" 0^oPeklo [54a]<
3: 0XK04225."3" 0^oPlavy [55]<450XK04228."3" 0^oPoledník [56]<520XKK0/360XKK04226."3" 0^oRaspenava [61a,d]<
420XK04223c"30XK04226."4" 0^oTc-gnkp-k-v "Lk|gt{PRT [62a]<70/390XK04224."3" 0^oT{d|^ohqw m{RT [65]<390/4: 0
X04225."3" 0^oUmgpc keg [66a]<:0KZ04226."3" 0^oM^oque x"t{dpfm [72]<520KX0/390X0c"4: 0XK0/320XKK04224."4" 0^o
Xt cvkuncxieg"pcf"Pluqw [78]<420KZ04228."3" 0

Psycha griseocens *Vppqkt."3; 44+

Xgn ok"jqlp "gxtqrum "ftwj."lgjqfl"ctg^an"tq|-|gp|rqmt x^ar^au"x ejqfp "qf"Dtkvum ej"quvtqx "
cfl"rq"Nkvxw"cu v gfp|"Cpcvqkk."pc"ugxgtw"lg"nk okvq^ap"dqte^anp|o "gmqtg i kpgg o"*Umcpfkp^axkq⁺
c"pc"lkjw"ugxgtp|"Chtkmqw*^oLgflgm" (" [c ek'4227+0"Nctx{"luqw"ucr tqdkppv|^o)

Jizerka [30]<350XKK04223."3" 0^oNwfxmqx"rqf"U o tmg o [40b]<420XK04224."3" 0^oNová louka PR [46a,b]<520KX0/390
X0."440X0."70/390XK0c"4: 0XK0/320XKK04224."3" .5" 0^oPoledník [56]<40/470XK04226."3" 0^oRaspenava [61a]<530X04226."
3" 0^oTc-gnkp-k-v "Lk|gt{PRT [62a]<390X0/60XK0."70/390XK0c"390/4: 0XK04224."3" .4" 0^oRejdice [63a]<520X0/380
XK04227."3" 0^oT{d|^ohqw m{RT [65]<390/4: 0X04225."3" 0^oM^oque x"t{dpfm [72]<520KX0/390X0c"4: 0XK0/320XKK04224."
3" .4" 0^oVlejš^a m{c"RR [73]<520XKK0/360XKK04226."3" 0^oZlatá Olešnice [79c]<:0KZ04226."3" 0

Psychoda alticola Xckmcpv."3; 95

Rqw|g"nkvtg^atp|^afcl<Tc-gnkp-k-v "Lk|gt{PRT*^oLgflgm"4228f+0

X|^aep "gxtqrum "ftwj|p^a o "rqw|g|"Tcmqwumc."Htcepkc" gum²tgrwdnkm{"*Lk|gtum²"jqt{" "
c"PRT"Mtcnkem "Up flp|m"o" oqtexum^a a uv+0"Qdgp "qejtcp^a um{"|cl|o cx "Xckmcpv"3; 95+."
x um{v|lg"pwwp"ungfqxcv|

Psychoda phalaenoides *Nkppcgwu."397: +

Xgn ok"jqlp "jqnctmvkem "rqn{xnkvpp|ftwj."k o^a i c"luqw"xg"xgnm² o"rq vw"w|cx|t^apc"x"mx v/
p|ej"vqwe|ej"tquvnp|"Arum maculatum c|"r uqdw|l|lg|q|r {nqx^ap|*^oLgflgm"3: ; 2c+0"Nctx{"luqw"
ucr tqdkppv|^o)

Bílý Potok [5a]<530X04226."3" 0° **Bukovec PR [6a,b]**<70/380X0°c°70/420X0KKK04225."4" 0° **Ferdinandov [13]**<420X04224."3" 0° **Frýdlant [16b]**<3;0XK04223."3" 0° **Harta [17]**<340X04228."3" 0° **Hejnice [18b]**<440X04227."3" 0° **Horní Pertoltice [22a,b]**<30X04227."4" 0° **Horní Polubný [23b]**<3;0XK04228."3" 0° **Kunratice [35]**<440X04228."3" 0° **N° |p "Nkdxgtfc [36a]**<420X04224."3" 0° **Nwfxmqx°rqf°U o tmg o [40b]**<420X04224."3" 0° **O cn°Uvtcpe°RT [41]**<390/450X04224°c°320/480X04225."4" 0° **Ogcpft°{U o f°2°RT [43b,d]}**<°:0KZ04226°c°440X0/70X0KK04227."4" 0° **Nová louka PR [46a]**<520X0/390X0°c°70/390X04224."3" .".3" 0° **Pqx°X°fmc [47]**<3;0XK04224."3" 0° **Pqx°O uvq°rqf°U o tmg o [48]**<420X04224."3" 0° **Qnf kejqx°x°J°M°ej [51a]**<3;0XK04223."3" 0° **Paseky nad Jizerou [53]**<°:0KZ04226."3" 0° **Peklo [54a]**<3;0XK04225."3" 0° **Plavy [55]**<450X04228."3" 0° **Poledník [56]**<40/470X04226."3" 0° **Raspenava [61a,b,d,e]**<420X04223."3;0XK04225."530X0°c°30X04226."440X04228."6" .".4" 0° **Tc-gnkp°v "Lk|gt°{°NPR [62a]**<430X04223°c°390/4;0XK04224."4" 0° **Rejdice [63a]**<°:0KZ04226."380X0KKK0/30KZ0°c°30/440KZ04227."4" .".3" 0° **T°{d°|hqw m°{°RT [65]**<390/4;0X04225."3" 0° **Umngpc keg [66]**<°:0KZ04226."3" 0° **Uncf m°F°tc [67b]**<3;0XK04224."3" 0° **U o tflqxm c [69b]**<3;0XK04224."3" 0° **U°mqe x°t°{°dp°fm [72]**<520X0/390X0."4;0XK0/320X0KK0°c°320X0KK0/30X0KK04224."3" .".4" 0° **V°kej° | me°RR [73]**<520X0KK0/360X0KK04226."3" 0° **U Kyselky [75]**<420X04228."3" =°X°eacx°fmqxc°Uvwf°p°mc [76]<3;0XK04228."3" 0° **Zlatá Olešnice [79b,c,d]**<°:0KZ04226°c°440X04227."3" .".6" 0

Psychoda uniformata J cug o cp."3;29

Nqm°np "jqlp "jqnctm°vkem "ftwj."|c|pc o gpcp "x" gum°2°tgrwdn°keg."Tcmqwumw."Kv°nkk."Unqk°pumw."gemw."Vwtgemw."K|tcgnk."Oqpi°qumw."t°pw°c°WUC°*Lgflgm" ("Dtcxgt o cp°4228+0°Ucrtqh°a ip°|nctx°{°ug°x°x°|gl°|o I0°vc m°2°x°ej°n°x°gej."o c°v°n°|ej."ru°|ej°dqwf°ej°c°rqf°o
Frýdlant [16a]<420X04223."3" 0° **Poledník [56]**<520X0KK0/360X0KK04226."3" 0° **U°mqe x°t°{°dp°fm [72]**<520X0/390X04224."3" 0

Psychodocha cinerea *Dcpmu."3; ;6+

Xgn°ok "jqlp "mqu o qrqnkv°p°|ftwj."x°|um°{°vwl°|e°|ug°x°-ktqm°2°-m°ng°pcf o qum ej°x -gm°-°Arnp°a°|qqi°gqit°c°|em°a°fcvc°xk°|Lgflgm" (" [c ek°*4227+0°Ucrtqh°a ip°|nctx°{°o qj°qw°d°vur°qmw°u°k°o°a°i°|k°v°p°{°k°pc°pgwf°tflqxc°p°ej°Y°E0
gtpqwu°{°X°R°qk [8a]<°:0KZ04226."3" 0° **Ogcpft°{°U o f°2°RT [43a,d]}**<°:0KZ04226°c°530X04227."4" .".4" 0° **Rejdice [63a]**<380X0KKK0/30KZ04227."3" 0° **U°mqe x°t°{°dp°fm [72]**<520X0/390X0."4;0XK0/320X0KK0°c°320X0KK0/30X0KK04224."5" 0

Psychodocha gemina *Gcvqp."3;26+

Jqlp "gxtqrum "ftwj°x°|um°{°vwl°|e°|ug°qf°p°flkp°rq°jqt°{°*Lgflgm°3; ;2c+0°X°xql°ucrtqh°a ip°|ej°nctgx°o°flg°rtqd°|jcv°k°x°j°p°|fgej°rv°m°0
Dgf kejqx [3]<440X04224."3" 0° **Bílý Potok [5a]**<40X04227."3" 0° **Bukovec PR [6a]**<380/4;0X04225."3" 0° **Horní Maxov [21b]**<470X04222."3" 0° **J t°cpk p°a [25]**<450X04224."3" 0° **Jablonec nad Nisou [26]**<390X04225."3" 0° **Karlovy [31]**<450X04224."3" 0° **Mt°up°Uvwf°p°mc [33]**<3;0XK04225."3" 0° **O cn°Uvtcpe°RT [41]**<390/450X04224."3" 0° **Meandry U o f°2°RT [43b]**<440X0/70X0KK04227."3" 0° **Mníšek [45b]**<380X04225."3" 0° **Nová louka PR [46a,b]**<520X0/390X0."440X0."70/390X0°c°4;0XK0/320X0KK04224."6" 0° **Pqx°X°fmc [47]**<3;0XK04224."3" 0° **Novina [49b]**<460X04222."3" 0° **Peklo [54b]**<3;0XK04225."3" 0° **Plavy [55]**<450X04228."3" 0° **Raspenava [61d,f]**<420X04223°c°30X04226."3" .".3" 0° **Tc-gnkp°v "Lk|gt°{°PRT [62a]**<390X0/60X0."70/390X0°c°390/4;0XK04224."5" 0° **Rejdice [63a,b]**<390X04224."°:0KZ04226."520X0/380X0."380X0KKK0/30KZ0°c°30/440KZ04227."7" 0° **Rudolfovy [64a]**<440X04224."3" 0° **Umngpc keg [66b]**<°:0KZ04226."3" 0° **U o tflqxm c [69a]**<3;0XK04224."3" 0° **Ux vn°a [71b]**<3;0XK04224."3" 0° **U°mqe x°t°{°dp°fm [72]**<520X0/390X0."4;0XK0/320X0KK0°c°320X0KK0/30X0KK04224."5" 0° **V°kej° | me°RR [73]**<520X0KK0/360X0KK04226."3" 0° **X°t°c°v°lun°c°x°keg°pc°f°Nisou [78]**<420KZ04228."3" 0° **Zlatá Olešnice [79b,c]**<°:0KZ04226."3" .".3" 0

Psychodocha itoco *Vqmwpcic" ("Mqo {q."3;77+

Ftwj°rtcx°f°rqf°qdp "u" o pqjg o°-kt-°|o°tq|-°|gp°|o°pgfl°lg°fquwf°|p°a°o q°=wf°a°x°a°p°rqw°|g°|"Lc°rq°pumc." gum°2°tgrwdn°km°{°c°Hk°pumc°*Ucn°o gnc°422;+0°Qe°j°tcp°a°um°{°|c°|°o c°x "ftwj."x°um°{°v°lg°p°wv°pq°|ung°f°qxc°v0
Nová louka PR [46a]<520X0/390X0."70/390X0°c°4;0XK0/320X0KK04224."5" 0° **Plavy [55]**<450X04228."3" 0° **Tc-gnkp°v "Jizery NPR [62a]**<70/390X04224."3" 0° **T°{d°|hqw m°{°RT [65]**<390/4;0X04225."3" 0° **U°mqe x°t°{°dp°fm [72]**<520X0/390X0."4;0XK0/320X0KK0°c°320X0KK0/30X0KK04224."5" 0

Psychodula minuta *Dcpmu."3: ;6+

Xgnok'jqlp "jqnctmvek "ftwj|ctgiukvtqxc "x"opqjc"uv^avgej^{*}Lgflgm"3; ;2c="Lgflgm" ("Dtcxgt/ocp"4228+."x{um{vwlf"e"ug"x"pflkpa"ej."rcjqtmcvkpa"ej"k"jqt^aej⁰Ucrtqdkqppv"nctx{"ug"oqjqw"x{xflgv"k"x"lgum{pfej"x"pgvqr }o"iwa"pw0

Lgflnqx "f"nRT [27]<380XKO/80XKKO4227."3" 0"Ogcpft{"Uo f²RT [43a]<0KZ04226."3" 0"Nová louka PR [46a]<520XKO/390XO4224."3" 0"Poledník [56]<520XKKO/360XKKO4226."3" 0"Te-gnkp-v "Lk|gt{"PRT [62a]<390XKO/60XKO4224."3" 0"Rejdice [63a]<30/440KZ04227."3" 0"t{dflhqw m{"RT [65]<390/4;0XO4225."3" 0"mqe x't{dpfm [72]<520XKO/390XO."4:0XKO/320XKKO"320XKKO/30XKKO4224."3" .4" 0"Zlatá Olešnice [79c]<0KZ04226."3" 0

Psychomora mycophila *Xcknncpv."3; : : + "eq o d0"p0

u{p0 *Psychomora vanharai* Lgflgm."3; ;7" *xk | "Ykvjgtu"4227="Xcknncpv"3; : : +

Xl^aep "gxtqrum "ftwj^uo{mgo"rqo tp "qdvflp |lkuvkgnp +|ctgiukvtqxc "rqw|g"Xg^uHtcpekk."gum²tgrrwdnkeg."Unqxpumw."Unqxpumw^cTMx ectumw."u"x um{vg"o"qf"pflkpa"rqjqt{"0Nctx{"ug"x{xfl|gl|"x"rnqfpefej"x{x--fej"jwd0"Pqx²"tqfqx²"|c c|gpflvczqpw"mqtgurqpfwlg"u"mfl" g"o"pc"tqf{"ux"vc"vtkdw"Ru{ejqfkp^{*}Lgflgm" ("xcp"Jctvgp"4227+"c"fqrn mg"o"fcn-flj"q"pqx²j"q"tqfw^{*}Lgflgm"4229+0
TMqe x't{dpfm [72]<520XKO/390XO"4:0XKO/320XKKO4224."4" 0

Psychomora trinodulosa *Vqppqkt."3;44+

Xgnok'jqlp "jqnctmvek "ftwj."lp^ao"|"pgltp l-|fej"pcf"oq um ej" x -gm^{*}Lgflgm"3; ;2c+0"
Koa^aic"ug"x{xum{vwlf" cuvq"Xg"ux vgnp ej"hcrc |fej⁰Ftwj"lg"r gpc-g go"nctx^anpfej"uv^afk^lj^a cv"
tqfw"Rhabditis Fw10^{*}Cpiwknwnwfcg+"c"tq|vq"|" gngfk" Ico cukfeg0

Bílý Potok [5b]<440XO4225."3" 0"Frýdlant [16b]<3;0XKO4223."3" 0"Jtepk p^a [25]<450XO4224."3" 0"Lgflnqx "f"n PR [27]<380XKO/80XKKO4227."3" 0"nidgtge/Xguge [38]<380XKKO4226."3" 0"Ocn^aUvtcpc"RT [41]<390/450XO4224."3" 0"Nová louka PR [46a]<520XKO/390XO."70/390XKO"4:0XKO/320XKKO4224."4" .3" 0"Poledník [56]<520XKKO/360XKKO4226."3" 0"Te-gnkp-v "Lk|gt{"PRT [62a]<390XKO/60XKO."70/390XKO"390/4:0XKO4224."5" 0"mqe x't{dpfm [72]<520XKO/390XO"320XKKO/30XKKO4224."4" 0"Zlatá Olešnice [79b,c]<0KZ04226."4" 0

Tinearia alternata *Uc{."3:46+

Xgnok'jqlp "mqu"oqrqkvp"ftwj^{*}Lgflgm" ("xcp"Jctvgp"422; +0Nctx{"ug"x{xfl|gl|"pglpg"x"|cjp|xcl|/e|fej"qti"cpkem ej"ludvt^avgej^c"gzmtg"o"gpvgej."cng"qd xcl^l"o"cfkmqnp"jcdkvcv{"0R k'r go"pqflgp"o qjqw"dnqmqxcv"k"hwpmek" |cuvctn ej"umt^ar p ej"dknqikem ej"Z^{lnt}" kuvl'tgp"qfrcfpej"xqf"ug^{-v}tmqxqw^pa rnp^l"*Lgflgm"3;94+0

Ferdinandov [13]<3;0XKKO4226."3" 0"Poledník [56]<520XKKO/360XKKO4226."3" 0"U Kyselky [75]<350XKO/50XKKO4228."3" 0"Xtevlumxleg"pcf^aPluqw [78]<420KZ04228."3" 0"Zlatá Olešnice [79c]<0KZ04226."3" 0

Ypsodocha setigera *Vqppqkt."3;44+

Xgnok'jqlp "jqnctmvek "ftwj^{*}Lgflgm"3; :7f."4225+0"Ucrtqdkqppv"nctx{"ug"x{xfl|gl|"o10"k"Xg"j pqlk"o"q xeg."cuvq"Xg"|pc p ej"pcf"oq um ej" x -m^aej^{*}rcuvxkp{"uxcjqx^a"rtc"ogpk-v ."nckpqx²"mct{+0

Arnoltice [2]<330XKKO4225."3" 0"Nová louka PR [46a]<520XKO/390XO"4:0XKO/320XKKO4224."4" 0"Te-gnkp-v "Jizery NPR [62a]<390XKO/60XKO"390/4:0XKO4224."3" .3" 0"mqe x't{dpfm [72]<520XKO/390XO4224."3" 0"Zlatá Olešnice [79b,c]<0KZ04226."3" 0

Berdeniella chvojikai Lgflgm."3; ; ; "

U<XW

Xl^aep "rcvtp "uv gfgqxtqrum "ftwj."qfej{v^axcp "fqrquwf"rqw|g"rqf²n"d{uv kp"pc"Uqmgnqxumw" c"x"Lgugp^lm^aej^{*}Lgflgm"4225+0

Harta [17]<340XO4228."3" 0"Horní Maxov [21b]<470XO4222."3" 0"Horní Polubný [23b]<520XO4227."3" 0"Mq gpqx [32]<3;0XKO4228."3" 0"Ocn^aUvtcpc"RT [41]<40XKO4226."3" 0"Plavy [55]<450XKO4228."3" 0"Raspnava [61a,d]<530XO"30XKO4226."4" 0"Uqw- [70]<460XO4222."3" 0"Zlatá Olešnice [79c]<50XKO4226."3" 0

Berdeniella kocii Lgflgm."4228"

B!

Ftwj'd{n'rqrup'pc'|^amncf "rq gvp2jqv{r qx2jq"o cvgtk^nw*82"gz0+|"o pqjc'hqmcnk|'Lgugp'f|m " *Lgflgm"4228c+0'P'flg'wxgfgp "gzg o rn^a " |Lk|gtum ej"jqt'lgt'grtg|gpvcpg o"pqx2jq"ftwjw"rtq" hcwpw" gej0'Vczqp'lg'qejtcp^a um{"|cl'ocx .x um{v'lg'pwv'pq'ung'f'qxcv0

Rejdice [63a]<380XKKK0/30KZ04227."3" 0

Berdeniella manicata *Vqppqkt."3;42+

O'uv{"jqlp "gxtqrum "ftwj'u"x um{vg o'qf^m'rcp numc."r gu'Dgnikk."P o'gemq." gumqw'tgrwdnkmw." Unq'xgpumq."Kv^ank'c'Dcnn^apum2'uv^v{"*Lgflgm"3; ;8c+0'p^a o " |p'f|m ej"rqnj *pcr 0'r'q'v'qm{"x'q'mq'f" Rtcj{+."cng"k"x v-^ej"pcf o'q um ej"x -gm^d{uv kp{"rtc o'gp'fe'pc"jqtum ej"uxc|'e'j"Lgugp'f|m +0

Nkdgtge/Xguge [38]<90XKKK04226."3" 0

Berdeniella matthesi *Lwpi."3;76+

Ftwj'lg" |p^a o" r'q'w|g" |Tcmq'wumc." P o'gemc."Kv^ankg." gum2'tgrwdnk{"c"Unq'xgpumc"*Lgflgm" 4228d+."x{um{"vwlg"ug'nqm^np "c"pgr 'nk-"jqlp "qf"rcjqtmcvkp"fq"x{uqm ej"jqtum ej"rqnj0" fiklg"k"pc"x'njm ej"x u{rmqx ej"nqmcnk^e'j"rqxtejqx ej"wjgnp ej"fq" *Uqmqnqxum^a"r^apgx+" u"x{ut^a'flgp o'flgng|g o0

gum ^mw o' dwtm [9]<520X04227."3" 0' **Horní Polubný [23b]**<520X04227."3" 0' **P qx{"Fq o m [50]**<460X04222."3" 0' **Rejdice [63a]**<50XK04226'c'520X04227."4" 0

Berdeniella pyrenaica Xckncpv."3;98"

B!

X|^ap "gxtqrum "ftwj."fqrquw'f'tg'ikv'qt'x'cp "r'q'w|g"|"Htcpekg.^m'rcp numc" c" gum2'tgrwdnk{"." q'f'w'f'lg" |p^a o" r'q'w|g" |O'qtcx{" |"r'q'j'q 'f'Lgugp'f|m{"*Lgflgm"4228c+0'P'flg'wxgfgp "gzg o rn^a " |Lk|gtum ej"jqt'lgt'ftwj o"mwug o" | gum2'tgrwdnk{"c"tgrtg|gpvcpg o"pqx2jq"ftwjw"rtq" A|g o'f" gej0'Qejtcp^a um{"|cl'ocx "ftwj."x um{v'lg'pwv'pq'ung'f'qxcv0

Mq gpqx [32]<3;0XK04228."3" 0

Berdeniella stavniensis *Mtg."3;8;+

Nkvg't'ap'f'c'k'Uqw-^*Lgflgm"4225+0
Nqm^np "jqlp "gxtqrum "ftwj'|p^a o " |Htcpekg." P o'gemc." gum2'tgrwdnk{"."Unq'xgpumc."Tcmq'wumc" c'Dcnn^apum ej"uv^v *Lgflgm"4228d+0'X{um{"vwlg"ug" |g| o'2pc"x"j'ndqdm ej"ngup'ej"tqmn'ej."pc"uxc/ j'qx ej"rtc o'gp'k-v'ej"c"rt uce'ej"x u{rgm"rqxtejqx ej"wjgnp ej"fq" *pcr 0'Uqmqnqxumq+0

Bílý Potok [5b]<440X04225."3" 0' **Ocn^a"Uvtcpe"RT [41]**<450X04224."3" 0' **Zlatá Olešnice [79c]**<50XK04226."3" 0

Berdeniella unispinosa *Vqppqkt."3;3;+

Gxtqrum "ftwj"u"x um{vg o'xg'uv g'f'p'f o" r^a u o'w" Gxtqr {"qf" Htcpekg" r'q" Rqnumq" c" Unq'xgpumq." pc'lk'j'w" |cuc'j'wlg'fq"Kv^ank'c'Dcnn^apum ej"uv^v 0'X"pc-ke'j"jtc'pk p'fej"r'q'j'q 'fej"r'q o' tp "jqlp " *Lgflgm"4228c+0

Bílý Potok [5a,b]<40XK04227."4" 0' **Mq gpqx [32]**<3;0XK04228."3" 0' **Ocn^a"Uvtcpe"RT [41]**<450X04224."3" 0' **Nová X'umc [47]**<3;0XK04224."3" 0' **Plavy [55]**<450XK04228."3" 0' **Rejdice [63a]**<50XK04226."520X0."520X0/380XK0" c'380 XKKK0/30KZ04227."6" 0' **Uncf m^a" F'tc [67a,b]**<3;0XK04224."4" 0' **U o' flq'xmc [69a,b]**<3;0XK04224."4" 0' **Ux vn^a [71a]**<3;0XK04224."3" 0

Berdeniella vimmeri Lgflgm."3; ;9

Nqm^np "jqlp " |glo 'uv g'fg'x'g'tqrum "ftwj"*q"x um{vw"x'egn2"Gxtqr "pgn|g'|c'f'f o"p'ke'uf nk'v+0" R x'q'f'p "r'q'rucp " |q'mq'f"Rtcj{"*Lgflgm"3; ;9d+.p'p'f'tg'ikv'qt'x'cp " |o'pqjc'm'q'req'x'v ej'hqmcnk'v" gej" c"O'qtcx{."r'q g'v'p2'nqmcnk'v{"lu'w"|p^a o'2" k" |j'tc'pk p'fej"r'q'j'q 'f" gum2'tgrwdnk{"0

Horní Polubný [23b]<520X04227."3" 0

*Clytocerus *Boreoclytocerus+longicorniculatus* Mtgm."3; :9

Ftwj|p^a o "fqrquwf|rqw|g|"Dqup|c"Jgtegiqkxp{.x'f |x l-|f'fqd "oqjn'd v'rtcx f r'qf'qdp " |c o qx^ap'u"ftwjg o "*Clytocerus ocellaris* *Ogki gp."3:26+0"Rctcngnp "d{n"p{p|l'gjq'x um{v' rwdnkmaq^ap|"l'kfp'ej" gej"c"Rqnumc**Lgflgm*"4229=*Lgflgm*" ("J^aIgm"4229+0"Qej'tcp^a um{"|cl'ocx ." x|^aep "ftwj."x um{v|l'g'pwwp'q'ungf'qxcv)

Horní Polubný [23b]<3;0XK04228."3" 0" **Ogcpft**{U o f²RT [43a]<530X04227."4" 0" **Vkej**" | mc"RR [73]<520XKK0/360XKK04226."3" 0" **X^aexc'fmqxc**Uvwf^apmc [76]<3;0XK04228."3" 0

*Clytocerus *Boreoclytocerus+ocellaris* *Ogki gp."3:26+

Ftwj'u'x um{vg o'xg'uv gfp|c|"a rcfp|Gxtqr 'x gyp "Dtkvum ej"quvtqx ."ugxgtp|j'tcp'keg'ctg^anw" rtqej^a |l'Hp'pung o."pc'lkjw'kv^ank|c"Dcmm^apum ok'uv^av{."pc'x ej'qf "Nkvxqw**Lgflgm*" ("I'qwp'p'gt" 3; ;7+0"Xgnok'j'qlp "ftwj'd gj "xq'f'p'ej'vqm "c'p^af'f'f|l'."rtcog'pk- "c'xnjm ej"nwm0

Arnoltice [2]<330XKK04225."3" 0" **Dgf kej'qx [3]**<440X04224."3" 0" **Bílý Potok [5a,b]**<440X04225."530X04226" c'40XK04227."6" 0" **Bukovec PR [6a,b,c]**<530X04225."430XK04228" c'3;0/420XK04229."6" 0" **Bulovka [7b]**<30XK04227."3" 0" **gtp'qwu**{X'Rqk [8a]<0KZ04226."3" 0" **Dolní Pertoltice [11]**<30XK04227."3" 0" **J qtp'** gtp^aUvwf'p'keg [19]<370XKK04223."3" 0" **J qtp'**Nw cp| [20]<390XK04225."3" 0" **Horní Maxov [21b,c]**<470X04222."4" 0" **Horní Pertoltice [22a,b]**<30XK04227."4" 0" **Horní Polubný [23a,b]**<460X04222."520X04227" c'3;0XK04228."6" 0" **J tcd v'ieg [24a,b,c]**<450X04224."5" 0" **J t'cp' p^a [25]**<450X04224."3" 0" **Lgf'nqx 'f nRT [27]**<3;0/520X04227."3" 0" **Karlov [31]**<470X04222" c'450X04224."4" 0" **Mq g'p'qx [32]**<3;0XK04228."3" 0" **Mt^aup^a**Uvwf^apmc [33]<80XKK04223" c'3;0XK04225."4" 0" **Nid'tge/X'uge [38]**<90" c'380XKK04226."4" 0" **Ocn^aUvt'cpe**RT [41]<470X04222."390/450X0" c'450X04224."40XK04226."8" 0" **Ogcpft**{U o f²RT [43a,b,c,d]<0KZ04226" c'530X04227."9" 0" **Mnišek [45b]**<380XK04225."3" 0" **Novina [49b]**<460X04222."3" 0" **P qx**{F'qom [50]<460X04222."3" 0" **Qnf kej'qxum**²ugf'nq [52]<390X0/50XK04225."3" 0" **Raspenava [61b,c]**<520XKK04225" c'440XK04228."4" 0" **Rejdice [63a,c]**<50XK04226."520X0."520X0/380XK0."380XKK0/30KZ0" c'30/440KZ04227."7" 0" **Rudolfov [64b]**<440X04224."3" 0" **U o tm [68a]**<420XK04228."3" 0" **U o t'f'q'xmc [69a]**<3;0XK04224."3" 0" **TM'qne x't**{dp'fm [72]<520KX0/390X0" c'320XKK0/30XKK04224."3" 0" **Vkej**" | mc"RR [73]<450X04224" c'520XKK0/360XKK04226."4" 0" **Zlatá Olešnice [79c]**<50XK0" c";0KZ04226."4" 0

*Clytocerus *Boreoclytocerus+rivosus* *Vqppqkt."3;3;+" U<CR

Gxtqrum "ftwj"u'x um{vg o'xg'uv gfp|c|"a rcfp|Gxtqr 'x gyp "Dtkvum ej"quvtqx ."cng'vcm²" x"Nkvx "c'xg"TMx²fumw**Lgflgm*"4225+0"Pg'j'qlp "ftwj"u'ql'g'f'k'p n o'x um{vg o'x"nw'f'p'ej"ngu'ej" c"pkx^aej"rqvqm "c" gm0

Ogcpft{U o f²RT [43b]<440XK0/70XK04227."3" 0

*Clytocerus *Boreoclytocerus+splendidus* *Lgflgm*" ("J^aIgm."4229

Ftwj|p^a o "rqw|g|"qt'k'ip^anp|j'q'rqrkuw|"o'p'q'c'nqmcnk'v"x gum²'tgrwd'keg^v{r'qx^a'u²tkg" |v^a" 47"gz0+<Qtnkem²c'f'ngng|p²j'qt{|.Uqmqnqxumq." gum²Dwf l'qx'keg.'Lgugp'fm{"c" gumq/o'qt'cxum²" o'g|k'j'q |l'."Rqf|l'c"D'f'n²"Mctr'cv{0" \ |pc o {"ftwjw'g'zkuw'l'p'qx "k|"Rqnumc"o'nmqcnkv{"Rlnkej" c" \c'f'v **Lgflgm*"4229+0"Qej'tcp^a um{"|cl'ocx "ftwj."x um{v|l'g'pwwp'q'ungf'qxcv)

Ogcpft{U o f²RT [43a]<530X04227."3" 0" **X^aexc'fmqxc**Uvwf^apmc [76]<3;0XK04228."3" 0

Parabazarella subneglecta *Vqppqkt."3;44+

Pg'j'qlp "gwt'q'cuklum "ftwj"u'x um{vg o'xg'uv gfp|c|"o' r^au o w" Gxtqr {"qf" Dgn'ikg" r'q" Rqnumq." x ej'q'f'p "cfl"r'q"Nkvxw."p'glugx'gtp l-|nqmcnkv{"ngf|'xg"Umcp'f'k'p^akk'xg"Hp'pumw*Ucn o'gnc"422: +." p'gll'k'f'p l-|pc"Dcmm^apum² o" r'q'nq'quvtqx "c"x"C'p'cv'q'nk'k0

Harta [17]<340X04228."3" 0

*Pericoma *Pachypericoma+blandula* Gcvqp."3; :5

D'f'p ."f'q'd g|p^a o "ftwj."mvt "ux o'tq|l-|g'p|o'pgp|'q o'g|gp'r'q w|g'pc'egnq w" Gxtqrw."cng" d{n" |l'k-v p'k'pc"Mc'xmc|w."x"Vwp'kumw" c" Oct'qmw**Lgflgm*"4226d+0" P'cf o'q um^a"x -mc'p'g'p|'rt'q' l'g'j'q'x um{v'tq|j'q'f'w|f'q'0

Bílý Potok [5a]<530X04226."3" 0"**Horní Pertoltice [22a]**<30XK04227."3" 0" **O cn^aUvt cpc**RT [41]<470X04222" c"450 X04224."4" 0"**Minkovice [44]**<440XK04228."3" 0"**Poustecká obora [57]**<440XK04228."3" 0"**Raspenava [61d,e]**: 420XK04223" c"30XK04226."4" 0

Pericoma **Pachypericoma*+*formosa* Pkgngup."3;86

Rqo tp "x|^aep "gxtqrum "ftwj."vczqqp okem{"pgfqeg qxcp ."w|p^axcp "lcmq"xcnkfp"}vgrt/xg"x"rqungfpp"fqd 0" \p^a o "fqwfw|"Htcpekg." gum²tgrwdnkm{"Unqxpumc."F^apumc."Pqtumc" c"Hkppumc"*Lgflgm"4228d+0

Ogcpft{**Uo f²RT [43a]**<0KZ04226."3" 0

Pericoma *u⁰uvt0+*pseudoexquisita*"Vqppqkt."3;62

Pgr "nk-"jqlp "gxtqrum "ftwj"u"x um{vg o"x|"^arcfp"}c"uv gfp"}Gxtqr "x gvp "Dtkvum ej"quvtqx ." pc"lkjw"pc"Crpgkpum² o "c"Dcnm^apum² o "rqnqquvtqx ."*Lgflgm"4226d+0

Raspenava [61e]<420XK04223."3" 0

Pericoma *u⁰uvt0+*rivularis* Dgtf²p."3;76"

U<EN

Rngctmvek "ftwj"x{um{vwl|e"}ug"qf"Dtkvum ej"quvtqx "r gu"ugxgtp"}qdnucvk"}Gxtqr {"cfl"rq"}F^anp " x ejqf."lkflp"}jtcpekg"ctg^anw"rtqej|"P o gemg o "c" gumqw"tgrwdnkmqw"}\ " gum²tgrwdnkm{"lg" |p^a o "rqw|g"}g"Uqmqqxumc"cfngng|p ej"jqt"*Lgflgm"4225+0

M flq x" xtej"RT [34]<530X04226."3" 0"**Playv [55]**<450XK04228."3" 0"**Poustecká obora [57]**<440XK04228."3" 0

Pneumia crispi *Htgg o cp."3;75+

U<EN

Rqw|g"nqma"np "jqlp "gxtqrum "ftwj."tq|-|gp "x|"^arcfp"}c"uv gfp"}Gxtqr *Htcpekg."P o gemq." Dtkvum²"quvtqx{" gum^a"tgrwdnkmc."Unqxpumq."Oc ctumq+"c"pc"lkjw"x"Dcnm^apum ej"uv^avgej" *Lgflgm"4228d+0

Umgpc keg [66a]<0KZ04226."3" 0

Pneumia cubitospinosa *Lwpi."3;76+

U<EN

Pgjqlp "gxtqrum "ftwj."lgjqfl"ctg^a"x um{vw"lg"ugxgtp "nk o kvqx^ap"urqlpke"}qf"Htcpekg"cfll"rq"Nkv/ xw"*pc"Dtkvum ej"quvtqxgej"ej{dfl."pc"lkjw|cucjwlg"pc"Crpgkpum "c"Dcnm^apum "rqnqquvtqx" *Lgflgm"4228d+0}Pflg"wxgfgp^a"nqmcnkvc"lg" vxtvqw"|p^a o qw"x" gum²tgrwdnkeg"*r gfej^a|gl|e"} p^ang|{"luqw"fqmcfqx"p{"|"Dtqw o qxumc" c"Dfln ej"Mcrtcv+0

gum^mw o dwtm [9]<520X04227."3" 0

Pneumia mutua *Gcvqp."3; ;5+

Jqlp "gxtqrum "ftwj"u"x um{vg o"xg"uv^avgej"rqf²n"Ugxgtp"}jq"oq g" c"pc"Dtkvum ej"quvtqxgej." pc"x ejqf " |cucjwlg"fq"Rqnumc" c"Nkvx{0}Pglugxgtp l-|nqmcnkvc{"ngfl"}xg"Umcpfkp^axkk"*Hkppumq+" c"pgllkflp l-|pc"Crpgkpum² o "c"Dcnm^apum² o "rqnqquvtqx 0"Rqf tqdp²"Áfclg"q"tq|-|gp"}x"p mvq/ t ej"pc-kej"jtcpk p|ej"jqt^aej"xk|"Lgflgm"*4228c+"c"Lgflgm" (" J^aIgm"*4229+0

Albrechtice v Jizerských horách [1]<450X04222."3" 0"**Dgf lej qx [3]**<440X04224."3" 0"**Bílý Potok [5a,b]**<530X04226" c"40XK04227."6" 0"**Bukovec PR [6a,b,c]**<380/4;0X04225."430XK04228" c"3;0/420XK04229."5" 0" gum^mw o dwtm [9]"<390XK04224" c"520X04227."4" 0"**Dolní Maxov [10a,b,c]**<470X04222" c"3;0XK04224."5" 0"**Dolní Polubný [12]**<450X04222."3" 0"**Hqlvgem " o qm cf"RR [14]**<3;0XK04223" c"3;0XK04225."4" 0"**J qtp"} gtp^a"Uvwfpeg [19]**<450XK04228."3" 0"**J qtp"}Nw cp{ [20]**<390XK04225."3" 0"**Horní Maxov [21a,b,c]**<470X04222" c"3;0XK04224."5" 0"**Horní Pertoltice [22a]**<30XK04227."3" 0"**Horní Polubný [23b]**<520X04227" c"3;0XK04228."6" 0"**J ted vkeg [24a,c]**<450X04224."4" 0"**J tepk p^a [25]**<450X04224."3" 0"**Jablonec nad Nisou [26]**<390XK04225."3" 0"**Lgf nqx " f n"RT [27]**<380XK0/80XK04227."3" 0"**Lkpf lej qxum " o qm cf"RR [28]**<390XK04225."3" 0"**Lk gvfp"rqf" Dwmqxqw [29]**<390XK04225."3" 0"**Karlov [31]**<450X04224."3" 0"**Mq gpqx [32]**<3;0XK04228."3" 0"**Mt^aup^a"Uwvf^apmc [33]**<3;0XK04225."

3" 0"N^a |p "Nidxgtfc [36b]<420XK04224."3" 0"Nw ep{"pcf"Pluqw [39a]<390XK04225."3" 0"Ocn^a"Uvtpec"RT [41]<470X04222."450X04224."320/480XK04225" c"40XK04226."8" 0"Maríanskohorské boudy [42]<3; 0" c"420XK04223."4" 0" Pqx^a"Xfmc [47]<3; 0XK04224."3" 0" Pqx²"O uvq"rqf"U o tmg o [48]<420XK04224."3" 0"Novina [49a]<460X04222."3" 0" P qx{"Fqom [50]<460X04222."3" 0" Qnf kej qx"x"J^a lfej [51a]<3; 0XK04223."3" 0" Qnf kej qxum²"ugfnq [52]<390X0/50XK04225."3" 0" Raspenava [61d]<30XK04226."3" 0" Tc-gnkp-k-v "Lk|gt{"PRT [62a,b]<430XK04223."390X0/60XK0."70/390XK0" c"390/4; 0XK04224."7" 0" Rejdice [63a,b]<390XK04224."50XK04226."520X0" c"520X0/380XK04227."8" 0" Rudolfov [64a]<440X04224."3" 0" T{"d"lqmw m{"RT [65]<430XK04223."3" 0" Uncfm^a"Ff{c [67b]<3; 0XK04224."3" 0" U o tm [68a,b]<420XK04224" c"420XK04228."5" 0" U o tflqmc [69b]<3; 0XK04224."3" 0" Ux w^a [71a,b]<3; 0XK04224."3" 0" M²qne x't{dpfm [72]<3; 0XK04223."3" 0" Vkej^a " f mc"RR [73]<450X04224."3" 0" U Kyselky [75]<420XK04224" c"420XK04228."4" 0" X^a encxfmqxc"Uvwf^a pmc [76]<3; 0XK04228."3" 0" Zlatá Olešnice [79a,b,c]<390XK04224."50XK04226" c"440XK04227."8" 0

Pneumia nubila *Ogki gp."3: 3: +

Gxtqrum "ftwj."lfggp" |pgljqlp l-|fej" |^auvwre " gngfk"Ru{ejqf kfcg"x" gum²"tgrwdnkeg⁰" \p^a o " v² o " |"egn²"Gxtqr{"qf"mrcp numc" c"Dtkvum ej"quvtqx "r gu"Umcpfkp^a xkk" rq"Rqnumc" c"Nkvxw⁰" Lkflp" |jtcpkeg"ctg^a nw" rtqej^a |"Kv^a nk". "Dcnm^a pum o k"uv^a v{"c"Mcxmc|g o" *Cdej^a |kg+= " |k-v p" d{n" k"pc" Mcp^a tum ej"quvtqxgej" c"Uctf kpk^a *Lgflgm" (" I qwvpgt"3; ; 7="Lgflgm" (" J^a lgm"4229+0"

Arnoltice [2]<330XKKK04225."3" 0" gtpqw{/X"Rqnk [8a]<3; 0KZ04226."3" 0" Ferdinandov [13]<3; 0XKKK04226."3" 0" Hqlvge "o qm c f"RR [14]<3; 0XK04225."3" 0" Hejnice [18a]<40XK04228."3" 0" Jqtp" gtp^a"Uvwfpeg [19]<450XK04228."3" 0" Horní Pertoltice [22a,b]<30XK04227."3" 0" M flqx "xtej"RT [34]<530X04226."3" 0" N^a |p "Nidxgtfc [36b]<420XK04224" c"3; 0XK04225."4" 0" Nidgtge/Xguge [38]<90XKKK0" c"380XKKK04226."4" 0" Ogcpft{"U o f²"RT [43a,c,d]<3; 0KZ04226" c"530X04227."8" 0" Minkovice [44]<440XK04228."3" 0" Peklo [54a]<3; 0XK04225."4" 0" Raspenava [61d]<30XK04226."3" 0

Pneumia pilularia *Vqppqkt."3: 62+

Nqm^a np "jqlp "gxtqrum "ftwj." |p^a o " v² o " |"egn²"Gxtqr{"x gvp "Dtkvum ej"quvtqx "c"mrcp n/ umc"pc" |^a rcf "c"Nkvx{"pc"x ejqf ."pglugxgtp l-|nqmcnk v{"ngfl" xg"Umcpfkp^a xkk="gzkuvw1" Áfclg" vcm²" |"Cnfl"tunc." Octqmc" c"V^a flkmlkuv^a pw" *Lgflgm"4226d="Ucn o gnc"422 : +0

Harta [17]<340X04228."3" 0" Horní Polubný [23b]<520X04227."4" 0" Zlatá Olešnice [79b]<3; 0KZ04226."4" 0

Pneumia plumicornis *Vqppqkt."3: 44+

Rqo tp "xgnm "c"p^a rcfp "gxtqrum "ftwj."x" gum²"tgrwdnkeg"x v-kpqw"u"rqf |k o p" o"x um{vg o⁰" \p^a o " rqw|g" |"P o gemc." gum²"tgrwdnkm{"Unqxpumc." Tcmqwumc" c"Kv^a nkg" *Lgflgm"3; ; 8c+0"

Paseky nad Jizerou [53]<3; 0KZ04226."3" 0" Rejdice [63a]<3; 0KZ04226" c"30/440XK04227."4" 0" Ummgpc keg [66a,b]<3; 0KZ04226."4" 0

Pneumia stammeri *Lwpi."3: 78+

U<"EN

Pgjqlp "gxtqrum "ftwj"tq|-|gp "x" gxtqrum ej"uv^a vgej"rqf² n"Ugxgtp{|jq" o q" g" c"pc" Dtkvum ej" quvtqxgej."pglx ejqfp l-|"Áfclg"luqw"fqmncf qx^a p{" |g"Unqxpumc⁰" Pglugxgtp l-|"nqmcnk v{"ngfl" x" dqtg^a np" o" gmqtg i kqpw" *Umcpfkp^a xkg+. "pgllkfp l-|"pc" Dcnm^a p " *Lgflgm"4225+0"

gum² w o dwtm [9]<520X04227."3" 0" Rejdice [63a]<50XK04226" c"520X0/380XK04227."4" 0

Pneumia trivialis *Gcvqp."3: ; 5+

Xgn o k" jqlp ."d flp "pcn² |cp "gxtqrum "ftwj"ug"-ktqmqw"gmqni i kemqw"xcngpe⁰" Rqmt x^a ctg^a n" qf" R{tgpplum² jq"rqnquvtqxc"r gu" Dtkvum² quvtqx{"c"Umcpfkp^a xkk"fq"Rqnumc" *pgp" |p^a o " |"Á |g o" d xc/ n² jq"Uqx vum² jq"uxc |w+. "pc"lkjw" |cucjwlg"r gu"uv gfgxgxtqrum² |g o "pc" Dcnm^a p⁰" Rqftqdp "x um{v" x"p mvgt ej"pc-kej" jtcpk pfej" jqt^a ej" rwdnkmqxcnk" Lgflgm" *4228c- "c" Lgflgm" (" J^a lgm" *4229+0)

Arnoltice [2]<330XKKK04225."3" 0" Dgf kej qx [3]<440X04224."3" 0" Dgf kej qx" xqfp" p^a f tl [4a]<440X04224."3" 0" Bílý Potok [5a,b,c]<40X04224."40" c"50XK04227."6" 0" Bukovec PR [6a,b,c]<530X04225."430XK04228" c"3; 0/420XK04229."

5" 0^oBulovka [7a,b]<30XK04227."4" 0^o gtpqwu{/X^oRqnk [8a]<:0KZ04226."3" 0^o gum^{™w}o dwtm [9]<390XK04224" c<520X04227."4" 0^oDolní Maxov [10a,b]<3; 0XK04224."4" 0^oDolní Pertoltice [11]<30XK04227."3" 0^oFerdinandov [13]<420XK04224" c<3; 0XKKK04226."4" 0^oHqlvgem "o qm cf^oRR [14]<3; 0XK04225."4" 0^oFojtka [15a]<380XK04225." 3" 0^oFrýf lantum "o qm cf^oRR [28]<390XK04225."5" 0^oHarta [17]<340X04228."3" 0^oHejnice [18a]<40XK04228."3" 0^oHorní gtp[™]Uvfwfpleg [19]<450XK04228."3" 0^oJqtpp^oNw ep{ [20]<390XK04225."3" 0^oHorní Maxov [21b,c]<470X04222." 4" 0^oHorní Pertoltice [22a,b]<30XK04227."4" 0^oHorní Polubný [23a,b]<460X04222."520X04227."c<3; 0XK04228." 7" 0^oJ tcd vkeg [24a,b,c]<450X04224."5" 0^oJ tēpk p^o [25]<450X04224."3" 0^oJablonec nad Nisou [26]<390XK04225." 3" 0^oLkp^of kej jxum "o qm cf^oRR [28]<390XK04225."4" 0^oKarlof [31]<450X04224."3" 0^oMq gpqx [32]<3; 0XK04228." 3" 0^oMt^oup^o"Uvfwf^opmc [33]<3; 0XK04225."3" 0^oM flq^ox "xte,j^oRR [34]<530X04226."3" 0^oN^o"p "Nkdxgt f c [36a,b]< 420XK04224."3; 0XK04225" c<30XK04226."5" 0^oNldgtge/Twr tge jvkēg [37]<380XK04225."3" 0^oNldgtge/Xguge [38]< 520XKKK04223."90" c<380XKKK04226."5" 0^oNw fxfmqx^o r qf^oU o tmg o [40a,b]<420XK04224" c<420XK04228."4" 0^oMalá Uvtepc^oRT [41]<470X04222."450X04224" c<40XK04226."7" 0^oOgcpft{^oU o f^oRT [43a,b,c,d]<:0KZ04226."530X0." 440XK0/70XKK0" c<3; 0XKKK0/60KZ04227.";" 0^oMinkovice [44]<440XK04228."3" 0^oMníšek [45a,b]<460X0" c<380XK04225." 5" 0^oNová louka PR [46a]<4; 0XK0/320XKK04224."3" 0^oPqx^o"O uvq^or qf^oU o tmg o^o [6; <420XK04224."3" 0^oNovina [49a,b]<460X04222."4" 0^oQnf kej qx^o"J^oA^ofej [51a]<3; 0XK04225."3" 0^oPaseky nad Jizerou [53]<:0KZ04226."3" 0^o Peklo [54a]<3; 0XK04225."4" 0^oPoustecká obora [57]<440XK04228."3" 0^oT^o f nq^oó pcf^omqwrcnk- v o^oRR [60]< 520XKKK04223."3" 0^oRaspenava [61a,b,c,d,f]<420XK04223."3; 0XK0."520XKKK04225."530X0."30XK04226" c<440XK04228."9" 0^o Tc-gnkpk-v "Lk|gt^o{^oPRT [62c]<430XK04223."3" 0^oRejdice [63a,b,c]<390XK04224."50XK04226."520X0."520X0/380XK0." 380XKKK0/30KZ0" c<30/440KZ04227."8" 0^oRudolfof [64a]<440X04224."3" 0^oUmmgpc keg [66a]<:0KZ04226."3" 0^oUnc fm^o" 3: 0XK04224."3" 0^oM^oqne x^ot^o{dpfm [72]<3; 0XK0."340XKK04223."520XK0/390X0."4; 0XK0/320XKK0" c<320XK0/30XKKK04224."7" 0^o Vlej^o" f mc^oRR [73]<450X04224."3" 0^oU Kyselky [75]<420XK04224."3" 0^oX^o encxfmqx^oUvfwf^opmc [76]<3; 0XK04228." 3" 0^oX vtqx [77]<420XK04223."3" 0^oXtevkuncxkēg pcf^oPluq^ow [78]<420KZ04228."3" 0^oZlatá Olešnice [79b,c,d]<50XK0" c<:0KZ04226."6" 0

Saraiella rotunda *Mtgm."3; 92+ "

U<^oCR

Nqm^onp "jqlp ."rtxcf r qf qdp "uwd o g f k v g t t^op^o j q t u m " f t w j *Lgflgm"4228d+ | p^o a o | " gum²" tgrwdnkm {."Unqxpumc."Kv^o nkg."Ut d u m c."Dq u p { " c " J g t e g i q x k p { 0^o P f l g g w x g f g p^o " n q m c n k v c " r q n u m² j q^o r t x q p^o n g | w^o V q t h y k u m q " O é { u m k " l g " x d g e " p g l u x g t p l - f^o | p^o a o q w " n q m c n k v q w " v q j q v q " f t w j w " x " G x t q r 0

Dgf kej qx [3]<440X04224."3" 0^oBukovec PR [6a,b,c]<70/380X0."380/4; 0X0."530X0."420XKKK0/40KZ04225."430XK04228" c<3; 0/420XK04229."8" 0^oDolní Polubný [12]<450X04222."3" 0^oHorní Polubný [23b]<520X04227."3" 0^oJ tcd vkeg [24c]<450X04224."3" 0^oNldgtge/Xguge [38]<380XKKK04226."3" 0^oTc-gnkpk-v "Lk|gt^o{^oPRT [62b]<430XK04223."3" 0^o Rejdice [63a]<380XKKK0/30KZ0" c<30/440KZ04227."4" 0^oRudolfof [64a,b]<440X04224."4" 0^oVq t h y k u m q " O é { u m k g " [74]<90KZ04226."3" 0

Szaboiella hibernica *Vpppqt."3; 62+ "

U<^oCR

Nkvt^otp^o f^oÁfc|g< gum^{™w}o dwtm."Ocn^oUvtepc^oRT."Rwv^okp { *Lgflgm"4226c+0 Gxtqrum "ftwj"u"ctg^ong o "x um {vw"r q m t x c l f e^o o "R { t g p g l u m " r q n q q u v t q x . " D t k v u m² " q u v t q x { . " u v^o v { " r k " U g x g t p^o o " o q k^o c " u v g f p^o G x t q r w . " C r g p k p { . " D e n n^o p u m " r q n q q u v t q x " c " M e x m c | * C d e j^o a | k g + 0^o U r f - g " j q t u m " f t w j " u " x u m { v g o " q f " 6 2 2 " f q " 3 " 6 9 2 " o " p 0 o 0 . " p c " M e x m c | g " c f i " 4 " 5 7 2 " o " p 0 o 0^o

Bílý Potok [5a]<440X04225."530X04226" c<40XK04227."5" 0^o gum^{™w}o dwtm [9]<520X04227."3" 0^oHorní Polubný [23b]<520X04227" c<3; 0XK04228."4" 0^oMq gpqx [32]<3; 0XK04228."3" 0^oRejdice [63a,c]<50XK04226."520X0."520X0/380XK0."380XKKK0/30KZ0" c<30/440KZ04227.";" 0^oZlatá Olešnice [79b]<440XK04227."3" 0

Tonnoiriella nigricauda *Vpppqt."3; 3; + "

U<^oCR

Pg j qlp "gxtqrum "ftwj"|p^o a o "r q w | g | " D g n i k g . " F^o a p u m c . " H k p u m c . " g u m² " t g r w d n k m { " c " U n q x p u m c " * L g f l g m " 4 2 2 8 d + 0

Nldgtge/Xguge [38]<380XKKK04226."3" 0^oOcn^oUvtepc^oRT [41]<450X04224."3" 0^oOgcpft{^oU o f^oRT [43a]<:0KZ04226" c<530X04227."4" 0^oRaspenava [61d]<30XK04226."3" 0^oM^oqne x^ot^o{dpfm [72]<520XK0/390X0" c<4; 0XK0/320XKK04224." 4" 0^oZlatá Olešnice [79c]<50XK04226."3" 0

*Tonnoiriella pulchra**Gcvqp."3:;5+

Pgr {nk-}jqlp "gxtqrum "ftwj|p^ao " |g|^arcfp|c"uv gfp|Gxtqr{. "pglx ejqfp l-|Àfclg"luqw
| "Nkvx {0"X" dqtg^anp|o "gmtgikqpw"ej {d|, "mtqo "lkf|p|Gxtqr { " |c|pcogp^ap"l"x"ugxgtp|Chtkeg"
*Octmq+0"Rqftqdp²"Àfclg"q|lgj"q"x um{vw"x"p mvgt ej"jtcpk p|ej"jqt^aej" gum²tgrwdnkm{"
xk| "Lgflgm"*4228c;"c" "Lgflgm" ("J^aIgm"*4229+)

Bílý Potok [5a,b]<440X04225."530X04226" c"40XK04227."6" 0" gtpqwu{/X'Rqnk [8a]<0KZ04226."3" 0" J qtp| gtp"
Uvwf pkeg [19]<450XK04228."3" 0" Horní Polubný [23b]<520X04227" c"3; 0XK04228."5" 0" J tcd vkeg [24a]<450X04224."3"
3" 0" N^a|p "Nidxgt f [36b]<420XK04224" c"30XK04226."4" 0" Ocn^aUvtepc^aRT [41]<450X04224."3" 0" Paseky nad
Jizerou [53]<0KZ04226."3" 0" Zlatá Olešnice [79b]<0KZ04226."4" 0

Ulomyia annulata annulata *Vppqkt."3;3;+

Pgr {nk-}jqlp "gxtqrumq/|^arcfqqukd um "rqfftwj"tgikvtxqcp "rqw|g"x"Dgnik."P ogemw." gum²
tgrwdnkeg."Unqxgpumw" c"Nkvx 0" Pglx ejqfp l-|^ax um{v|g"fqmncfqx^ap"|g"Uldk g^aPqxqukdktum^a
qdnucv+0"X{um {vw|g"ug"qlgfkp ng"qf"p|flkp"rq"jqtum²"nqmcnk v{0" *Ulomyia annulata chimganensis*
Lgflgm."3; ;9"d|nc"rqr^apc"|W|dgmkuv^apw0"Rqftqdp l-|Àfclg|xk| "Lgflgm"*3; ;4."3; ;9c+0

Ogcpft{Uo f²RT [43a,b,d]<0KZ04226" c"440XK0/70XK04227."5" 0

Ulomyia cognata *Gcvqp."3:;5+

Nqm^anp "jqlp "gxtqrum "ftwj|p^ao " |t |p ej"pcf oq um ej"x -gm." rwdnkmqxcp " |cv|o"
| "Htcpekg."P ogemc."Xgnm²Dtkv^apkg." gum²tgrwdnkm{."Unqxgpumc."Rqnumc"*Lgflgm"4229+."Nkvx {."
Tcmqwumc."Unqxkpumc"*Lgflgm"4224+"c"Kv^ankq0"

Dgf kej qx [3]<440X04224."3" 0" Bukovec PR [6a]<380/4; 0X0" c"530X04225."4" 0" gum^aw o dwtm [9]<520X04227."3" 0"
Dolní Maxov [10c]<470X04222."3" 0" Horní Maxov [21b,c]<470X04222."4" 0" Horní Polubný [23a,b]<460X04222."
520X04227" c"3; 0XK04228."6" 0" J tcd vkeg [24a]<450X04224."3" 0" J tckp p^a [25]<450X04224."3" 0" Lgf^aqx "f n"RT
[27]<3; 0/520X04227."3" 0" Karlov [31]<470X04222" c"450X04224."4" 0" Ocn^aUvtepc^aRT [41]<470X04222."390/450X0."
450X04224" c"40XK04226."8" 0" Novina [49a,b]<460X04222."4" 0" P qx{"Fq o m| [50]<460X04222."3" 0" Rejdice
[63a,c]<50XK04226."520X0."520X0/380XK0."380XK00/30KZ0" c"30/440KZ04227."9" 0" Rudolfov [64a]<440X04224."3" 0"
Umgpc keg [66a]<0KZ04226."3" 0

Ulomyia fuliginosa *Ogki gp."3:26+

Lgfgp|"pgljqlp l-|ej"ftwj " gngfk"x dge"u"x um{vgo"rq"egn²"Gxtqr "qf"p|flkp"rq"jqtum²
o cukx{"*Lgflgm"4226d+0 —fclg|"À|g o|^ad xcn²jq"Uqx vum²jq"uxc|w"luqw"cnq" xgn o k"urqt²
*rqw|g"Nkvxc+0"

Albrecht v Jizerských horách [1]<450X04222."3" 0" Arnoltice [2]<330XK004225."3" 0" Dgf kej qx [3]<440X04224."
3" 0" Bílý Potok [5a,b,c]<440X04225."530X04226."40" c"50XK04227."8" 0" Bulovka [7a]<30XK04227."3" 0" gtpqwu/
X'Rqnk [8a]<0KZ04226."3" 0" gum^aw o dwtm [9]<390XK04224" c"520X04227."4" 0" Dolní Polubný [12]<450X04222."
3" 0" Ferdinandov [13]<3; 0XK04223" c"3; 0XK004226."4" 0" Hqlvgem "o qm cf"RR [14]<3; 0XK04223" c"3; 0XK04225."
5" 0" Frýdlant [16b]<3; 0XK04223."4" 0" Harta [17]<340X04228."3" 0" Hejnice [18a]<40XK04228."3" 0" Horní
gtp^a"Uvwf pkeg [19]<450XK04228."3" 0" J qtp|Nw cp{ [20]<390XK04225."3" 0" Horní Maxov [21a,c]<470X04222"
c"3; 0XK04224."4" 0" Horní Pertoltice [22a]<30XK04227."3" 0" Horní Polubný [23b]<520X04227" c"3; 0XK04228."
6" 0" J tcd vkeg [24a]<450X04224."3" 0" J tckp p^a [25]<450X04224."3" 0" Jablonec nad Nisou [26]<390XK04225."
3" 0" Lkf qjxqum "o qm cf"RR [28]<390XK04225."3" 0" Lk gvp"rqf"Dwmqxw [29]<390XK04225."3" 0" Karlov [31]<
450X04224."3" 0" Mt^aup^a"Uvwf^apmc [33]<3; 0XK04225."3" 0" M flqx "xtej"RT [34]<530X04226."3" 0" N^a|p "Nidxgt/
da [36b]<420XK04224."3; 0XK04225" c"30XK04226."5" 0" Nidxgtge/Xguge [38]<90" c"380XK004226."4" 0" Nw cp{"pcf"
Nisou [39b]<390XK04225."3" 0" Ocn^aUvtepc^aRT [41]<450X04224" c"40XK04226."6" 0" Mníšek [45a,b]<380XK04225."
4" 0" P qx{"Fq o m| [50]<460X04222."3" 0" Qf kej qx"x"J^a|fej [51a]<3; 0XK04225."3" 0" Paseky nad Jizerou
[53]<0KZ04226."3" 0" Peklo [54a,b]<3; 0XK04225."4" 0" Plavy [55]<450XK04228."3" 0" Tcf keg [59]<3; 0XK04225."
3" 0" Raspenava [61a,d]<3; 0XK04225."530X0" c"30XK04226."5" 0" Rejdice [63a,b,c]<390XK04224."50XK0" c"; 0KZ04226."
520X0."520X0/380XK0."380XK00/30KZ0" c"30/440KZ04227."32" 0" Umgpc keg [66a,b]<0KZ04226."5" 0" Uncf m^aF^ate [67a]<
3; 0XK04224."3" 0" U o tm [68b]<420XK04228."3" 0" U o tflqmc keg [69a]<3; 0XK04224."3" 0" Ux vn^a [71b]<3; 0XK04224."3" 0"
X vtqx [77]<420XK04223."3" 0" Zlatá Olešnice [79a,b,c,d]<390XK04224."50XK0."0KZ04226" c"440XK04227."9" 0

Uloomyia plumata *Vqppqkt."3;3;+ "

U<CR

Nqm^anp "jqlp "gxtqrum "ftwj."urfl-g"jqtum ."|p^ao "rqw|g|"Dgnikg."Htcpek.g." gum²tgrwdnk{ "c<Cnd^apkg*"Lgflgm"4226d+0

Albrechtice v Jizerských horách [1]<450X04222."3" 0"Dgf ke j q x [3]<440X04224."3" 0"Bukovec PR [6a,b]<380/4;0 X04225" c<430X04228."4" 0"Dolní Maxov [10b,c]<470X04222" c<3; 0X04224."4" 0"Dolní Polubný [12]<450X04222."3" 0" **J q t p f** " g t p " U v f p l e g [19]<450X04228."3" 0" **J q t p f** N w c p { [20]<390X04225."3" 0" **Horní Maxov [21a,b,c]** <470X04222." c<3; 0X04224."5" 0" **Horní Polubný [23a,b]** <460X04222."520X04227" c<3; 0X04228."6" 0" **J t c d v k e g [24a,b,c]** <450X04224."5" 0" **L k p f k e j q x u m " o q m c f " R R [28]** <390X04225."4" 0" **Jizerka [30]** <350X04223."3" 0" **M q g p q x [32]** <3; 0X04228."3" 0" **O c i " U v t c p c " R T [41]** <470X04222."450X04224" c<40X04226."7" 0" **P q x { " F q o m { [50]** <460X04222."3" 0" **Plavy [55]** <450X04228."3" 0" **Pustiny [58]** <450X04222."3" 0" **Rejdice [63a,b,c]** <390X04224."50X04226."520X0/380X04227."9" 0" **Rudolfovo [64b]** <440X04224."3" 0" **Uncf m " F t c [67a,b]** <3; 0X04224."4" 0" **U o t m [68b]** <420X04228."3" 0" **U x v n " [71a]** <3; 0X04224."3" 0" **V k e j " a " f m c " R R [73]** <450X04224."3" 0" **Zlatá Olešnice [79b]** <440X04227."3" 0

Uloomyia vaseki"Lgflgm."4224"

U<EN

Rq w | g " n k v g t " a t p " A f c l " L k | g t m c " * L g f l g m " 4 2 2 4 . " r e t c v { r w u + 0

Qd g e p " x | " a e p . " r q w | g " n q m " a n p " j q l p " g x t q r u m " f t w j . " | p " a o " r q w | g | " " g u m " 2 " t g r w d n k m { " * Q t n k e m " 2 " j q t { " * O c e g m " g v " c n 0 " 4 2 2 7 + . " L k | g t u m " 2 " j q t { . " g u m q o q t c x u m " 2 " o g | k j q | f . " T { e j n g d u m " 2 " j q t { " c " L g u g / p f m { + . " U n q x g p u m c " * U n q x g p u m " 2 " T w f q j q | f " c " U n q x k p u m c " * L w n u m " 2 " C n r { c " M c t c x c p m { + 0

\ j q f p q e g p f " x u n g f m

Pc"9;" j n c x p f e j " n q m c n k v a e j " * A j t p g o " p c x f e " u g " 9 ; " f f n f o k ' d k q v r f + " x " L k | g t u m e j " j q t a e j " c " p c " H t f n c p v u m w d { n q " x " n g v e j " 4 2 2 2 6 4 2 2 9 " | c t g i k u v t q x a p q e g n m g o " 9 : " f t w j " " g n g f k " R u { e j q f k f c g " * x g v p " l g f p 2 " u w d u r g e k g + . " e q f l r g f u v c x w l g " 7 4 . 9 " ' " h c w p { " m q w w v n f " " g u m " 2 " t g r w d n k m { " c " 8 3 . 6 " " " h c w p { " g e j 0 " L g " v q " q " 3 4 " f t w j " x f e g " p g f l " x " E J M Q " Q t n k e m " 2 " j q t { " | c " r q w f l v " q d f q d p e j " o g v q f " u d t w . " c n g " o g p - f j q " c u q x 2 j q " t q | r v f " * x k | " O c e g m " g v " c n 0 " 4 2 2 7 = " L g f l g m " (" J a l g m " 4 2 2 9 + 0 " P g f a x p " x | m w o " x " E J M Q " L g u g p f m { " | c e j { v k n " t q x p f l " 9 : " f t w j " " m q w w v n f " * L g f l g m " 4 2 2 8 c + 0

\ e g n m q x 2 j q " r q v w f t w j " | l k - v p e j " x " L k | g t u m e j " j q t a e j " c " p c " H t f n c p v u m w l g " 6 9 " g x t q r u m 2 j q " t q | - f g p f " * 8 2 . 2 " ' + . " 9 " u v g f q g x t q r u m 2 j q " * . 2 " ' + . " 9 " j q n c t m v k e m 2 j q " * . 2 " ' + . " 8 " g x t q r u m q / " a r c / f q u k d k u m 2 j q " * 9 . 9 " ' + . " 5 " r n c g t m v k e m 2 j q " * 5 . ; " ' + . " 5 " m q u o q r q n k v p f j q " * 5 . ; " ' + . " 4 " u w d o g f k v g t t a p f j q " * 4 . 8 " ' + . " 4 " v t c p u m c x m c | u m 2 j q " * 4 . 8 " ' + c " 3 " g x t q c u k l u m 2 j q " * 3 . 5 " ' + 0 "

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LGfiGM'L0'4226d<'Pgy'hcwplukve'fcvc'qh'pqp/rjngdqv okpg' o o qvj ' i kgu*Fkrygtc. Ru { e j q f k f c g + ' h t q o ' v j g ' R e n c g e t e v k e ' t g i k p l ' K p < M W D ' M ' T 0 ' (' D C T V f M ' O 0 ' * g f u + < ' F k r y g t q n q i k e c ' D a j j o o q u n q x c e c . ' X q n l ' 3 3 0 ' F o l i a F a c . S c i . N a t . U n i v . M a s a r y k . B r u n . ' D k n l . ' 3 2 : < ' 3 6 3 / 3 7 3 0

LGfiGM'L0'4227<'Ru { e j q f k f c g . ' r r l ' 4 7 ; / 4 8 3 0 ' K p < H C T M C ' L 0 . ' M T f N ' F 0 ' (' T M Q M T R ' M ' O 0 ' * g f u + < ' g t x g p ' u g / p c o ' q j t a f l g p e j ' f t w j ' g u m 2 ' t g r w d n k m / 0 ' D g / q d t c m / 0 ' T g f ' N k u v ' q h ' v j t g c v p g f ' u r g e k u ' k p ' v j g ' E | g e j ' T g r w d n k e . ' K p x g t e b r a t e s ' 0 ' C i g i p w t c ' q e j t e p { ' r ' t q f { ' c ' m t c l p { ' T . R t e j c . ' 9 8 2 ' r r ' * k p ' E | g e j ' c p f ' G p i n k u j + 0

LGfiGM'L0'4228c<'Ru { e j q f k f c g * F k r y g t c + ' q h ' v j g ' L g u p f m { ' R t q v e v g ' N c p f u e c r g ' C t g c ' c p f ' k u ' g p x t q p u ' y k v j ' f g u e t r k v q p u ' q h ' v y ' q ' p g y ' D g t f g p k g m c ' u r g e k u ' h t q o ' v j g ' E | g e j ' T g r w d n k e l ' C e v c ' G p v l ' O w u l ' P c v l ' R t c i c g . ' 6 8 < ' 3 7 3 / 3 ; 4 0

LGfiGM'L0'4228d<'Pgy'hcwplukve'tgeqtfu'qh' o o qvj ' i kgu*kpugevc. ' F k r y g t c . ' R u { e j q f k f c g + ' h t q o ' U n q x c m k l ' E n t o m . C a r r e v j l . ' 3 : < ' 5 6 / 5 8 0

LGfiGM'L0'4228e<'Ru { e j q f k f c g ' P g y o c p . ' 3 : 5 6 0 ' K p < L G F N K ' M C ' N 0 . ' U V N Q W M C N Q X f ' X 0 ' (' M - F G N C ' O 0 ' * g f u + < ' C h e c k l i s t o f D i p t e r a o f t h e C z e c h R e p u b l i c a n d S l o v a k i a . G a n g e v t a p k e ' x g t u k p p ' 3 0 ' j w r < l l | q a n q i { t h p u l w p k d e l u m l f k r y g t c ' c p f ' E F / T Q O * K U D P ' : 2 / ; 8 ; 8 4 ; / 2 8 + 0

LGfiGM'L0'4228f<'Pgy'hcwplukve'tgeqtfu'qh' o o qvj ' i kgu*kpugevc. ' F k r y g t c . ' R u { e j q f k f c g + ' h t q o ' v j g ' E | g e j ' T g r w d n k e ' c p f ' U n q x c / m k l ' K p < M K P M Q T Q X f ' L 0 ' * g f l + < ' F k r y g t q n q i k e c ' D a j j o o q u n q x c e c . ' X q n l ' 3 5 0 ' C e v c ' W p k x l ' E c t q n l . ' D k n l . ' 7 2 < ' 3 5 ; / 3 6 3 0

LGfiGM'L0'4229<'Pgy'tgeqtfu'qh' o o qvj ' i kgu*Fkrygtc. Ru { e j q f k f c g + ' h t q o ' R q n c p f ' y k v j ' f g u e t r k v q p ' q h ' C r u { e j c ' i g p l ' p q x l ' A c t a Z o o l . U n i v . C o m e n . ' 6 9 * 4 < ' 6 5 / 7 : 0

LGfiGM'L0' (' D T C X G T O C P ' l ' 0 ' 4 2 2 8 < ' P a p / d k v p i ' o o qvj ' i kgu*Fkrygtc. Ru { e j q f k f c g + ' q h ' K u t c e n l ' K p < M K P M Q T Q X f ' L 0 ' * g f l + < ' F k r y g t q n q i k e c ' D a j j o o q u n q x c e c . ' X q n l ' 3 5 0 ' C e v c ' W p k x l ' E c t q n l . ' D k n l . ' 7 2 < ' 7 9 / 8 2 0

LGfiGM'L0' (' I Q W V P G T ' X l ' 3 ; ; 5 < ' V g n o c v e q e q r u w ' v g t u r k e w n c w u ' u r l ' p l ' c p f ' R e t c l w p i k g m c ' u g t d k e c ' e q o d l ' p l ' * F k r y g t c < Ru { e j q f k f c g + ' h t q o ' I t g g e g l ' H q n k e ' J g f t q x l . ' 3 < ' 8 : / 9 7 0

LGfiGM'L0' (' I Q W V P G T ' X l ' 3 ; ; 7 < ' Ru { e j q f k f c g * F k r y g t c + ' q h ' I t g g e g l ' C e v c ' O w u l ' P c v l ' R t c i c g . ' 7 2 D * 3 ; ; 6 + < ' 3 2 9 / 3 4 6 0

LGfiGM'L0' (' J f L G M L ' 0 ' 4 2 2 9 < ' Ru { e j q f k f c g * F k r y g t c + ' q h ' v j g ' Q t n k e m 2 ' j q t { ' R t q v e v g ' N c p f u e c r g ' C t g c ' c p f ' p g i j d q w t p i c t g e u ' y k v j ' f g u e t r k v q p u ' q h ' v y ' q ' p g y ' u r g e k u ' h t q o ' v j g ' E | g e j ' T g r w d n k e l ' A c t a E n t . M u s . N a t . P r a g a e . ' 6 9 < ' 4 5 9 / 4 : 7 0

LGfGM^{L0}. "MWD^M"^{M0} ("DCTV f M^O"^{O0}4227<Ru{ejqfkkfcg."rr0⁹: / 70^{Kp}"DCTV f M^O"^{O0} ("MWD^M"^{M0}*gfu<"*Diptera qh*"*Rqf* / *I^PPcvkqpcn*"*Rctm*"*cpf*"*kvu*"*gpxktqpu*" gum^a | g o f num^a wpkxgt | kvc^x"*Rtc* | g. 654^r r0

LGfGM^{L0} ("QOGNMQX f^O"^{O0}4229<Pgy*kpugevc." Fkrvgtc." Ru{ejqfkkfcg+^hqtq o^o "vjg^o E | g e j " T g r w d n k e " c p f " U n q x c m k e " R u { e j q f k f c g " A c t a Z o o l . U n i v . C o m e n . ' 6 9 * 4 < 3 6 : / 3 7 3 0

LGfGM^{L0} ("UEJCEJ V^Y"^{Y0}4228<Oqj^o fkgu^ohtq o^o "Dcxctk^{*} Fkrvgtc." Ru{ejqfkkfcg+^o *Entomofauna*. "49⁵: +< 699/6: 60

LGfGM^{L0} ("xcp^o J C T V G P " C " ^{O0}4227<Hwtvjgt^o pgy^o vczc^o c p f " n k v n g / m p y p " u r g e k g u " q h " p q p / d k v p i " o q j " f k g u " * F k r v g t c . " R u { e j q f k f c g + " h t q o " [g o g p " *Acta Ent. Mus. Nat. Pragae*. "67<3: ; / 4420

LGfGM^{L0} ("xcp^o J C T V G P " C " ^{O0}422: < Q t f g t " F k r v g t c . " h c o k n { " R u { e j q f k f c g " U w d i c h o k n { " R u { e j q f k p c g * p q p / d k v p i " o q j " f k g u + " *Arthropod fauna of the UAE*. "4^{*} k p " r t g u u + 0

LGfGM^{L0} (" [C E K " ^O 4227< E q o o q p " p q p / d k v p i " o q j " f k g u " * k p u g e v c . " F k r v g t c . " R u { e j q f k f c g + " p g y " v q " v j g " h c w p c " q h " V w t m g { " *Cevc*"*Rctcukvqnl*"*Vvteb*. "4; < 3: : / 3; 40

LWP I " J " ^O H " 3; 78< D g k v t @ i g " | w t " D k q n i k g . " O q t r j q n i k g " w p f " U { u g o c v k m " f g t " g w t q r @ k u e j g p " R u { e j q f k f g p * F k r v g t c + " *Deutsch. ent. Z.* "5<: 9/4790

MTGM^{U0}3: ; 9< F x l g " p q x g " E n { v q e g t w " o " x t u w g " k | " L w i q u n c x l g * R u { e j q f k f c g . " R u { e j q f k p c g + " V y q " p g y " u r g e k g u " q h " v j g " E n { v q e g t w h t q o " | w i q u n c x k " R u { e j q f k f c g . " R u { e j q f k p c g + " *Incul* " \ g o c n d " *Ow* / *Dqup* " *K* " *Jtegi* *axkpg* " *W* " *Uctclg* x w . " *Rtknl* " *Pcwmg* . " *Paxc* " *Ugl* . " 47/48 * 3 ; : 8 / 3 ; : 9 < 3 ; 7 / 4 2 2 * k p " U g t d q / E t q c k p c . " G p i n k u j " u w o o 0 + 0

OCEGM^{L0}. "E J X Q L M C " ^{R0} (" LGfGM^{L0} / 4227<32^{ngv}gpvq o qnqikem² j q " x | m w o w " x " E J M Q " Q t n k e m ² j q t { * 3 ; ; 6 / 4 2 2 6 + 0 " | V g p " { g c t u " q h " g p v q o q n i k e c a " t g u g c t e j " k p " v j g " Q t n k e m ² j q t { " R N C * 3 ; ; 6 / 4 2 2 6 + 0 " *Rcpqtc o c* . " F q d t ² . " 3 5 < 3 2 7 / 3 3 4 * k p " E | g e j " 0

RTWPGT^{N0} (" O " M C " ^{R0} 3 ; ; 8 < U g | p c o " q d e " c " l g l e j " a u f " x " g u m ² t g r w d n k e g " u " f u n { " o c r q x e j " r q n " r t q " u f " q x ² o c r q x a p " h c w p { " N k u v " q h " u g v n g o g p v " k p " v j g " E | g e j " T g r w d n k e " y k v j " c u u q c k v g f " o c r " L g n " e q f g u " h t " h c w p k u v k e " i t k f " o c r r k p i " u { u g o + " *Klapalekiana* . " 5 4 * U w r n l " < 3 / 3 3 7 * k p " E | g e j . " G p i n k u j " u w o o 0 + 0

SWCVG^{N0} Y " 0 3 ; 7 7 < C " t g x i k u q p " q h " v j g " R u { e j q f k f c g * F k r v g t c + " k p " C o g t k e c " p q t v j " q h " O z g k e q l " *Wpkxl* " *Ecnkhl* " *Rwdnl* " *Gpnl* . " 3 2 < 3 2 5 / 4 9 5 0

UCNOGNC^{L0} 422: < U g o k s w c v k e " | { * F k r v g t c . " P g o c v q e g t c + " h c w p c " q h " h g p u . " u r t k i u . " j g c f y c v g t " u v t g c o u " c p f " c n r k p g " y g n v c p f u " k p " v j g " p q t v j g t p " d q t g c n " g e q t g i k a p . " H k p n c p f " *W-album* . " 8 < 5 / 8 5 0

^MGX " M " ^{L0} 4228< Fkrvgtc^o cuuqckvgf^o ykvj^o hwpik^okp^o vjg^o E | g e j " c p f " U n q x c m " T g r w d n k e u " *cul* " *Ung* / *Ow* / *O* " *Qrcxc* * " C . " 7 7 . " U w r n l " 4 < 3 / : 6 0

XCXKNNC PV^{H0} 3 ; 9 3 / 3 ; : 5 < R u { e j q f k f c g " o " R u { e j q f k p c g " ^O K p " N k P F P G T " G " ^O * g f 0 < " *Die Fliegen der palaearktischen Region* . U v w v i c t v . " ; f < 3 / 5 7 : 0

XCXKNNC PV^{H0} 3 ; 9 5 < S w g n s w g u " k p u g e v g u " f g r v ³ t g u . " c " n t x g u " c s w c k s w g u . " f w " r c t e " f g " n c " X c p q k u g l " *Trav. Sci. Parc. Nat. Xcpqkug* . " 5 < 3 5 5 / 3 8 7 0

XCXKNNC PV^{H0} 3 ; : : < " E q p t k d w k p q " c " n l g w f g " f g u " R u { e j q f k f c g " o { e q d k p v g u " * F k r v 0 + " *Bull. Soc. Ent. Fr.* " ; 5 * 7 / 8 < 3 : 3 / 3 ; 3 0

XQPK MC^{R0} 422: < G p v q o q n q i k e m " x | m w o " L k | g t u m e j " j q t " c " H t f n c p v m c " x " n g v e j " 4 2 2 2 / 4 2 2 9 + 0 " U d q t p " *Ugxtg* g u " *Ow* / 0 . " R " *f* / *X* " *f* . " N k d g t g e . " 4 8 < 5 / 3 4 * k p " E | g e j . " G p i n k u j " u w o o 0 + 0

XQPK MC^{R0} (" X K " ^M f M " ^{T0} 422: < " a " m c f p " e j c t c m v g t k u v k m c | m q w o c p ² j q " A | g o " L k | g t u m e j " j q t " c " H t f n c p v m c " ^O * I g p g t c n " e j c t c v g t k u v k e " q h " v j g " u w f { " c t g c " k p " v j g " L k | g t u m ² j q t { " O v u " c p f " H t f n c p v " t g i k a p + 0 " U d q t p " *Ugxtg* g u " *Ow* / 0 . " R " *f* / *X* " *f* . " N k d g t g e . " 4 8 < 3 5 / 5 5 * k p " E | g e j . " G p i n k u j " u w o o 0 + 0

Y C I P G T " ^{T0} 3 ; ; 2 < H c o k n { " R u { e j q f k f c g . " r r 0 " 3 3 / 8 7 0 " K p " U Q " ~ U " C " ^O * g f 0 < " *Ecvcnqiwg* " *qh* " *Rncncgctevke* " *Fkrvgtc* . " *Xqn* " ^{O0} *Psychodidae – Chironomidae* . C m c f " o k e k " M k f x . " D w f c r g u v . " 6 ; ; " r r 0

Y C I P G T " ^{T0} 4 2 2 9 < R u { e j q f k f c g " ^O L Q P I " J " ^O F G " ^O * g f 0 < " *Fauna Europea* : *Diptera Nematocera* . X g t u k a p " 3 0 4 0 " C x c k n c d n g " q n k p g " c v " j w r n l 1 y y " h c w p c g w t l t i " * n c u v " w r f c v g " q p " 3 ; (l k x l 4 2 2 9 + 0

Y C I P G T " ^{T0} (" P K G U K / Q / Y U M K " ^{U0} 3 ; ; 8 < R u { e j q f k f c g * F k r v g t c . " P g o c v q e g t c + " h q w p f " q x g " u v t g c o u " q h " v j g " y k v q / m t | { u m " P c v k q p c n " R c t m " c p f " k v u " u w t t q w p f k p i u " *Frag. Faun* 0 . Y c t u | c y c . " 5 2 < 7 5 6 8 3 0

Y K V J G T U " ^{R0} 4 2 2 7 < P g y " t g e q t f u " q h " R u { e j q f k f c g * F k r v g t c + " h q t " U y k v | g t n c p f " *Tgd* " *Uwkuug* " \ *qnl* . " 3 3 4 < 3 : 5 / 3 : : 0

UWOOCT [

Cnvqigvjgt⁹: "urgekgu^{*} kpen⁰ qpg^o uwdurgekgu^o qh^o o qvj^o fkgu^{*} Ru{ejqfkkfcg+^o ygtg^o hqwpf^o kp^o vjg^o Lk | g t u m ² j q t { " O v u " c p f " v j g " c f l c e g p v " H t f n c p v " t g i k a p " k p " 4 2 2 2 6 4 2 2 9 * o c k p n { " R u { e j q f k p c g . " y k v j " q p n { " v y q " u r g e k g u " q h " U { e q t c e k p c g + 0 " V j k u " p w o d g t " o c m g u " w r " c r r t z k o c v g n { " 7 5 " " q h " r u { e j q f k f " u r g e k g u " q e w t t k p i " k p " v j g " E | g e j " T g r w d n k e " * L g f l g m " 4 2 2 8 e " w

Vyq^o urgekgu^o ctg^o pgy^o hqt^o vjg^o hcwpc^o qh^o Dqjg o k c < *Berdeniella kocii* htq o " TgIfkge] 8 5 _ " c p f " *B. pyrenaica* htq o " Mq gpqx] 5 4 _ = " o q t g x g t . " *Saraiella rotunda* htq o " Vqthqy kumq^o O e { umkg^o

J96_"ku"pg y "hqt"Rqncpf0"Rctcv{ r wu"*qpg" o cng+"qh" *Ulomyia vaseki*" y cu"eqmgevfg" d {"R0"Newvgtgt" kp"vjg"xkekpkv{"qh"Lk|gtmc"}J52_0"Qpg"pg y"pc o g"eq o d kpcvkqp"ku" i kxgp<"*Psychomora mycophila* *Xckmncpv."3 ; : : "+"eq o d0"p0."cpf"kvu"u{"pqp{ o "P. vanharai Lgflgm."3 ; ; 7"ku"tgeq i pk|g f0"Vjg"pg y" i gpgtke" rqukvkqp"qh"vjku"urgekgu"eqttgurqpfu" y kvj"vjg"mg{"vq"vjg" y qtnf" i gpgtc"qh"Ru{"ejqfkk" *Lgflgm" ("xcp" J ctvpg"4227."ugg"cnuq"Lgflgm"4229"hqt"cf fkvkqpcn" fvcv+0"

Vjg" o qv j" ĩku"qh"vjg"uvwf{"ctgc"tgrtgugpv" o qpvcpg"vczc"cu" y gnm"cu"Uwd/Og fkvgttccpgcp" cpf"Vtcpuwecucup"ngg o gpvu."dgpki" o quvn{"c"eq o d kpcvkqp"qh"Gwtqrgcp."Gwtqrgcp"o" Yguv/Ukdgtkcp."Gwtcukcp."Rncgcctevke."J qnctevke"cpf"equ o qr qnkvcv"urgekgu"0"Oquv"qh"vjg"uvwfkgf" o qv j" ĩku"ctg" i gpgtcmm{"Gwtqrgcp"kp" fkvtkdvwkqp"*69"urgekgu."8202 ' +."uq o g"ctg"mpq y p"qpn{"htq o" Egpvtcn"Gwtqrg"ugxgp"urgekgu."k0g0 ; 02 ' 0+0"Vjg{"ctg"hqnmq y g f" d {"ukz"Gwtqrgcp"o" Yguv/Ukdg/ tkcp"urgekgu"*90 ' +."v y q" Gwtq/Vtcpuwecucup"*408 ' +."v y q"Uwd/Og fkvgttccpgcp"*408 ' +."qpg" Gwtcukcp"*305 ' +."vj tgg"Rncgcctevke"*50 ; ' +."ugxgp" J qnctevke"* ; 02 ' + "cpf"vj tgg"equ o qr qnkvcv" urgekgu"*50 ; ' +0

Vy gpv{"pkpg"urgekgu"hwppf"kp"vjg"uvwf{"ctgc" y gtg"kpennwfgf"kp"vjg" Tgf"nkuv"qh"E|ge j" kpxgt/ vgdtcvgu" *Lgflgm"4227+0"V y gnxg"urgekgu" y gtg"encuukŁgf"cu"etkvecmn{"gpfcpi gtgf"**Sycorax tonnoiri*." *Oomormia andrenipes*." *Parajungiella ellisi*." *P. pseudolongicornis*." *P. serbica*." *Psychmera intergella*." *Philosepedon balkanicum*." *Clytocyclus rivosus*." *Saraiella rotunda*." *Szaboiella hibernica*." *Tonnoiriella nigricauda*" cpf" *Ulomyia plumata*+=" ugxgp" urgekgu"cu" gpfcpi gtgf" **Promormia eatoni*." *Telmatoscopus labeculosus*." *Pericoma rivularis*." *Pneumia crispi*." *P. cubitospinosa*." *P. stammeri*" cpf" *Ulomyia vaseki*+=" hqwt" urgekgu"cu" xwnpgtedng" **Parajungiella prikryli*." *Philosepedon hrudkai*." *Threticus sylvaticus*" cpf" *Berdeniella chvojikai*+0"Vjg"eqpugtxcvkqp"uvvuw"eqwnf" pqr"dg"cuuguugf" hqt"vjg"hqnmq y kpi"vczc"*eq o rctg" Lgflgm"4227+<" *Psychoda alticola*." *Psychodocha itoco*." *Berdeniella kocii*." *B. pyrenaica*." *Clytocyclus longicorniculatus*" cpf" *C. splendidus*0

Pneumia trivialis y cu"vjg" o quv"htgswgpnv{"eqmgevfg"urgekgu"kp"vjg"uvwf{"ctgc"*83"nqecnk/ vkgu+."hqnmq y g f" d {" *Ulomyia fuliginosa* cpf" *Pneumia mutua* *68"nqecnkvgu" gcej+=" *Clytocyclus ocellaris* cpf" *Psychoda phalaenoides* y kvj"55"tgeqt fu0"Qp"vjg"qv jgt" j cpf."44"urgekgu" y gtg" eqmgevfg" cv"qpn{"qpg"nqecnk{"Vjg" jki j guv"pw o dgt"qh" ru{"ejqfkk"urgekgu" y cu"hwppf"cv" Tg/ l fkeg"}85_"cpf" \ncv"Qng-pkeg"}9 ; _"dqvj"nqecnkvgu" j quvki"4 : "urgekgu."hqnmq y g f" d {"Ogcpft{" U o f2"PT"}65_" y kvj"49"urgekgu."cu" y gnm"cu"vjg"xkekpkv{"qh" Tcurgpcxc"}83_" y kvj"45"urgekgu" cpf"™qne x"t{dpfm"rqp"}94_" y kvj"43"urgekgu"0" C"ukping" ru{"ejqfkk"urgekgu" y cu"eqmgevfg"cv" 5"nqecnkvgu"0"Uq o g"urgekgu"ctg"mpq y p"htq o" c" xgt{"nk o kvgf"ctgc"*qpn{"c"hg y" eqwvptku+"cpf" ctg" i gpgtcmm{"xgt{"tctg<" *Parajungiella ellisi*." *P. prikryli*." *P. pseudolongicornis*." *P. serbica*." *Philosepedon balkanicum*." *P. hrudkai*." *Threticus sylvaticus*." *Psychoda alticola*." *Psychodocha itoco*." *Psychomora mycophila*." *Berdeniella chvojikai*." *B. kocii*." *B. pyrenaica*." *B. vimmeri*." *Clytocyclus longicorniculatus*." *C. splendidus*." *Pericoma formosa*." *P. rivularis*." *Saraiella rotunda*." *Ulomyia plumata*" cpf" *U. vaseki*." Vjg"hqnmq y kpi"urgekgu" o quvn{"y kvj" cswvke"nctxcg+"ctg" r tqdcdn{"ejctcevgtkuvke" hqt" o qpvcpg" jcdkvvuc"Ru{ejqf c"cnvkeqnc."Dgtfpgkmc"mqekk."Uctckgmc" rotunda." *Szaboiella hibernica*." *Pneumia plumicornis*." *Ulomyia plumata*" cpf" *U. vaseki*." Vjg" ncwgt." *Ulomyia vaseki*." tgcjgu"kvu"pqvtj gtp"nk o kv"qh" fkvtkdvwkqp"kp"vjg" J gte{pkew o"cpf"rcuugu" vj tqw i j"vjg" Ectrcv j kcpu"vq"vjg"Caru0" Ocp{"nqecnkvgu"*78."k0g0"920 ; ' + "ctg" k o rqtvcv"htq o"vjg" rgturjevkvxg"qh"pcwvtg"eqpugtxcvkqp0

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