

Pakomárcovití (Diptera: Ceratopogonidae) Jizerských hor a Frýdlantska

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

Lcp⁰KNOZ³⁺ ("Cpftgc⁰V ~ V J QX f⁴⁺

³⁺Ct o²pum^a35. "E \ ó847"22Dtpq/Dqj wpkeg="g/ o ckn<Impq | B ug | pc o 0e |
⁴⁺—uvcx⁰dqvcpkm{ "c" | qqnqikg. R fqtqf qx fgem^a"hcmwnc⁰Ocuct{max{ "wpkxgt | kv{."Mqvn^a um^a"4."
E \ ó833"59Dtpq="g/ o ckn<vqv j qxc B uek0 o wpk0e |

Abstract. Cnvi g v j g t⁹: "urgekqu⁰qh⁰Egtcvqrqi qpkfeg⁺ ygtg⁰hqwpf⁰kp^vj g⁰Lk | gtum² j qt{ "Ovu⁰cpf⁰Ht fncpv⁰tgi kqp⁰
Pkp⁰urkegu⁰ygtg⁰tgeqtf⁰gf⁰kp^vj g⁰E | ge j⁰Tgrwdnke⁰hqt^vj g⁰Ltu^vvk o g⁰V j g⁰pw o dgt⁰qh⁰urkegu⁰hqwpf⁰kp^vj g⁰uwwf{ "ctgc⁰
o cmgu⁰wr⁰62 " qh^vj g⁰E | ge j⁰dkvkpi⁰ o k f i g⁰hcwpc⁰Oqu^vqh^vj g⁰urkegu⁰ctg⁰Rncgctevke^{*3}: "ur r0t. hqmqy g f⁰d{ " J qncvteke⁰
^{*3}: "ur r0t+⁰cp⁰P g qvtqrkecn^{*4}ur r0t0

Key words: Fkrvgtc. Egtcvqrqi qpkfeg. Lk | gtum² j qt{ "Ovu. Ht fncpv⁰tgi kqp. pg y⁰tgeqtfu. fkuwtkdwvqp. hcwplvkeu. "d
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—XQF

Rcmq o^ateqxkv⁰*Egtcvqrqi qpkfeg+⁰luqw⁰ftqdp² o w-m{ "q⁰xgnkmqukv⁰nc⁰2.9/33" o o^{*qdx}{mng⁰
3/5" o o+0⁰Luqw⁰r f⁰dw | p⁰r cmq o^a t o^{*Ejktppq o kfcg+}. ug⁰mvgt ok⁰d{nk⁰f f⁰xg⁰ c | gpk⁰f q⁰urqng p²"
gngfk0⁰Pc⁰tq | f⁰n⁰qf⁰rcmq o^a t " o c l⁰r q o t p "uv^an "rq gv^v{mcfnqx ej⁰ n^apm⁰ * | r t c x k f n c⁰37."
x lk o g p⁰35"pgdq⁰36+0⁰Jwuv⁰ rqtquv^v{mcfnqx ej⁰ n^apm⁰ w⁰uc o e "f^ax^algk⁰ej^v{mcfn o^v{rkem⁰
-v⁰vg m⁰qxkv⁰x | jngf⁰F⁰qur neg⁰q⁰dqw⁰r q j n c x⁰q⁰fnk⁰-f⁰o⁰g⁰q⁰rcmq o^a t " r q f n g⁰r q o t p " f n q w j² j q⁰
uqu^amw. qdng⁰x {mngpww² j twfk. | cxcnk^v l-f⁰j q | c f g m w⁰c⁰mtcv⁰-f⁰ej⁰ r g f p⁰ej⁰mqp gv⁰kp0

X⁰uqw cup² f q d "lg⁰egnqx vx⁰ "gxk⁰f q x^a p q⁰ q m q n q⁰7"722" rncvp ej⁰ f t w j q x ej⁰ r q r k u⁰
rcmq o^ate⁰*Dqtmgpv⁰4228+. | "Gxtqr{ "lg⁰j n^a-gpq⁰7: : "ftw j⁰ *U | c f | k g y u m k⁰ ("Dqtmgpv⁰4226+0⁰
Pc⁰À | g o⁰ T⁰ug⁰ | c d x c n k⁰pc⁰r q⁰ a v m w⁰ o k p w n² j q⁰u v q n g v⁰q m t c l q x "u w f k g o⁰ r c m q o^a t e " f k r v g t q /
n q i q x². x p w i⁰f⁰ug⁰v c z q p q o k k⁰c⁰h c w p k u v k e g⁰ r c m q o^a t *Mq y c t | . X k o o g t. " c x g n⁰c⁰N c p f t q e m⁰+0⁰
R t x p⁰q d u^a j n g l⁰-f⁰ej g e m n k u⁰*Q t u |^a i j⁰ ("E j c n w r u m⁰3; ; 9+⁰g x k f w l g⁰r t q⁰À | g o⁰f⁰d x c n² j q⁰ g u m q /
u n q x g p u m c⁰368⁰ f t w j " * 8 7⁰ | À | g o⁰ T + 0⁰M⁰ p c x - g p⁰ r q v w⁰ | p^a o e j⁰ f t w j⁰ | " g u m e j⁰ | g o⁰f⁰
c⁰ | g⁰U n q x g p u m c⁰ q f⁰ f q d⁰ Y k o o g t q x e j⁰ r q⁰ | o⁰f⁰p⁰ e j g e m n k u⁰x | p c o p⁰ r k u r n { " r t^a e g⁰ M p q | g⁰
^{*3; 9: +⁰c⁰Q t u |^a i j c⁰*3; : 2+0}

X⁰uqw cup² f q d "lg⁰ | À | g o⁰ T⁰ | p^a o q⁰3; 7⁰ f t w j *V > v j q x^a ("M p q | "4228+. | "v q j q⁰d { n q⁰
55⁰ f t w j " | l k - v p q⁰v g r t x g⁰x p g f^a x p² f q d 0⁰X - g e j p { " t g e g p v p⁰ |^a | p c o { " l g f p q v k x e j⁰ f t w j⁰ | " r g /
f g - n e j⁰ x | m w o⁰ x⁰ g u m² c⁰U n q x g p u m² t g r w d n k e g⁰ n | g⁰p c l⁰v⁰x⁰ r w d n k m c e⁰ e j⁰ M p q |⁰*3; ; 9+. M p q |
g^vcn0⁰*4226+. V > v j q x^a*422: +. V > v j q x^ag^vcn0⁰*4226c. d. 4227+⁰c⁰V > v j q x^a ("M p q |⁰*4228+0

X⁰q d n c u k⁰Lk | g t u m e j⁰ j q t⁰c⁰Ht f n c p v u m c⁰p g d { n c⁰v c v q⁰ g n g " f q u w f⁰ | m q w o^a p c⁰c⁰x - g e j p { " f t w j { "
w x g f p² p⁰f l g⁰*x⁰ r g j n g f w⁰p^a n g | +⁰luqw⁰r t q⁰ | m q w o c p² À | g o⁰f⁰p q x²0⁰X l k o m q w⁰x⁰v q o v q⁰u o t w⁰
lg⁰l g p⁰ | r t^a x c⁰q⁰p^a n g | w⁰x⁰ | a p² j q⁰c⁰ o^a n q⁰ | p^a o² j q⁰t q f w⁰c⁰ f t w j w⁰Neurohelea luteitarsis⁰ Y c n v n.
3: 59⁰*V > v j q x^a ("M p q |⁰422: +⁰c⁰ f t w j w⁰Atrichopogon⁰*Lophomyidium⁰+⁰fusculus⁰*Eqs w k n g v w.
3; 23+⁰*V > v j q x^a ("M p q |⁰4228+0

X xqlqxa"uv" fkc" rcmqo a te " flkl" x" rtquv gff" cmxcvkem² o " c" ug o kcmxcvkem² o " k" x" vtxcnglk" xnjm² o " r tquv gff" pc" uqw-k0" cuvq" lq" pcn² | a o g" vcm² x" tquvnkpp ej " uvqpe" ej. " r qf" m tqw" uvtq o . " xg" x { v² mcl" e" o" | g" | r qtcp p ej " uvtq o " k' x' d' { fnk- v" | ej " lkp ej " flkxq kej " * x" pqt^a ej " ucxe . " rvc " | ej " j p" | fgej . " o txcgpk- v" | ej " crqf0+0" Lglkej " gmqniqk" g" xgn o k' t | pqtqf a " c" w" o p qj c' f twj " p g p" | f quw" | p^a o^a 0" Fqur nek' ug' x v- k p q w" | f t f w l" | x' d n" | m q u v k' h' | j p k- 0" X g m m² t q | f n { " l u q w" r c v t p² x' e j c t c m v g t w" l g l k e j " r q v t c x { 0" U c o e k' l u q w' j g t d k x q t p" p g d q' r q v t c x w' x d g e' p g r k l f o c l f" R q v t c x c' u c o k e' l g' p c r t q w" v q o w' x g n o k' t | p q t q f a . " e j c t c m v g t k u v k e m a " r t q' l g' f p q v n x² t q f { " p g d q' r q f t q f { 0" U c o k e g' p m v g t e j " u m w r k p * C u l i c o i d e s u r r 0 . " F o r c i p o m y i a * L a s i o h e l e a + u r r 0 . " N g r v a e q p q r k p c g + l u q w' j g o c v q h a i p f . " u c l f e" | m t g x' p c t | p e j " q d t c m v q x e f e j * x g y p " q d q l f l k x g n p f m + 0" U c o k e g' l k p e j " u m w r k p * F o r c i p o m y i a * E u p r o j o a n n i s i a + u r r 0 . " D a s y h e l e a u r r 0 c l 0 + u g' f l k x" | p g m v c t g o " c " r { n g o " t q u v n k p " c " c f c " u m w r k p | l g " k p u g m v k x q t p f e j . " f l k x f e f e j " u g' j g o q n { o h q w " c " v m a p o k' l k p² j q' j o { | w * A t r i c h o p o g o n * M e l o e h e l e a + u r r 0 . " R c n r q o { k p c g . " p m v g t² r q f t q f { " t q f w F o r c i p o m y i a + 0" Q f " v t q L e m e j " x | v c j " u g' q f x f l f " v c m² " g m q n i k e m " c u r q n g g p u m " x | p c o " r c m q o a t e 0" J g o c v q h a i p f " f t w j { } | p g r f l g o w l f " n k f g o " r q d { v " x g' x q n p² r f t q f " c " | p g m k f w l f f q o a e f k' f x q d e g' f l k f e" | x f c v c " c " o q j q w " u n q w f l k v l c m q' r g p c - g k " t | p e j " p a m c | 0" J g t d k x q t p" f t w j { " u g' x " r f t q f " w r n c v w l f l c m q' q r { n q x c k " p m v g t e j " t q u v n k p * p c r 0" m c m c q x p f m " o f l g' d v " q r { n g p' l g p" p m v g t o k' f t w j { " r c m q o a t e " r q f t q w F o r c i p o m y i a * E u p r o j o a n n i s i a + c " x " p c - f l r f t q f " u g " | g l o " v g p v q' j o { | x | p c o p " w r n c v w l g " l c m q' q r { n q x c " w' f t q d p q m v e j " t q u v n k p " g n g f f " F w e c e g c g . " C u v g t c e g c g " c l 0 " c " l g " o q f l p² . " f l g' p m v g t² . " | g l o² p c " x | a e p² " g p f g o k e m² " f t w j { " t q u v n k p . " d { " d g | " v q j q v q' j o { | w " o q j n { " x { j { p q w v }

OGVQFKMC"COCVGTKfN

Ocvgtk"n'd"n" | f u m " p " x h g e j e " 4 2 2 5 6 4 2 2 9 " p " a u n g f w l f e f o k " o g v q f c o k u d t w * w x g f p 2 " | m t c m { " l u q w r q w f l k v { " x " r g j n g f w " f t w j + c " G V " 6 " g o g t i g p e g " v t c r u * g o g t i g p v p f " r c u v k + . " O V " 6 " O c a c k u g " v t c r u * O c a c k u g j q' r c u v k + . " R V " 6 " r t q v g k p " v t c r u " 6 " o g c v " v t c r u * r t q v g k p q x 2 . " o c u q x 2 " r c u v k + . [R V " 6 " g m q y " r c p " v t c r u * f l m v w 2 " o k u m { + . " x - g " L 0 " R t g k u n g t " (" R 0 " X a p k m c " n i v 0 " N " 6 " n k i j v " * u d t " p c " u x w n + = " U Y " 6 " u y g g r k p i " * u o m " p f " x g i v g c e g " g p v o q q i k e m q w " u f f t . " x - g " L 0 " R t g k u n g t " n i v 0 " R q f t q d p " v { v q " o g v q f { " r q r k u w l g " X a p k m c * 4 2 2 : + 0 " X g - m g t " o c v g t k " n " f g v g t o k p q x c n k " q d c " c w v q k " c " l g " w n q f l g p " x g u d " f t e g " f t w j 2 " j q " c w w q t c 0 " R q f t q d p l - f " x { o g | p f " c " e j c t c m v g t k u v k m c " u n g f q x c p 2 " j q " a | g o f " x k | " X a p k m c " (" X k - " m * 4 2 2 : + 0

R g j n g f " n q m c n k v

— f c l g " m " n q m c n k v " o l u q w " x g f g p { " x " p " a u n g f w l f e f o " r q c f f " f l u n c " p " a | g x " n q m c n k v { " * q d g e . " a u " q d e g . " e j t a p p 2 " a | g / o f . " x t e j q n . " c r q f 0 + . " h c w p k u k e m " o c r q x " v x g t g e * R t w p g t " (" O f m c " 3 ; ; 8 + . " p c f o q u m a " x - m c . " d k v q r 0 " P m v g t 2 " n q m c n k v " l u q w " t q | f n g p { " p c " x f e g " d k v q r . " m v g t 2 " l u q w " | p c g p { " r f u o g p { 0 " R q w f l k v 2 " | m t c m { < " P R T " 6 " p a t q f p f " r f t q f p f " t g | g t x c e g . " R T " 6 " r f t q f p f " t g | g t x c e g }

[1] **Bílý Potok.** 7379: <[1a] t { dpf m { " u x 0 " q f " f l g n 0 " u v c p k e g . " 6 7 2 " o * r t c o g p k - v . " o q m c f = " [1 b] " o q m c f " c " x n j m 2 " n q w m { " p c f " m q w r c n k - v " o l k f l p " q f " q d e g . " 6 3 2 " o = " [1 c] " A f q n f " g t p 2 j q " r q v q m c . " 6 4 2 " o * n g u + 0 " [2] **Bukovec PR.** 737 : < [2 a] " n g u p " r t c o g p k - v " p c " l u x " u x c j w . " ; 4 2 " o = " [2 b] " R t c a n q w m c . " ; 2 2 " o * j q t u m a " n q w m c . " r t c o g p k - v + = " [2 c] " W r q n f p q x a " n q w m c . " : 2 " o * j q t u m a " n q w m c . " o q m c f = " [2 d] " u o t k p c " u l g " d g o " p c " u | 0 " u x c j w . " ; 5 2 " o 0 " [3] **Frýdlant.** 7278 . " 5 4 2 " o . " d g j { " g m { " U o f 2 0 " [4] **J q t p f " g t p " U w f p l e g * q d g e . " P q x a " 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 + 0 " [5] **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 f u a m 0 " [6] **Horní Polubný** * q d g e " M q g p q x + . " 7 4 7 : . " 9 2 2 " o . " o q m c f { " c " n q w m { l x 0 " q f " q u c f { 0 " [7] **L g f n q x " f " n R T . 7 4 7 9 . 8 9 2 " o . " d g j " r q v q m c " L g f n q x a " n g u + 0 " [8] **Jizerka** * q d g e " M q g p q x + . " 7 3 7 : . " : 7 2 / : 3 2 " o . " d g j { " f m { " L k | g t m { . " n q w m { " c " q m t c l " n g u c 0 " [9] **M q g p q x . 7 4 7 : . " 8 : 2 " o . " r q v q m " c " o q m k p { " r q f " f l g n 0 " u v c p k e 0 " [1 0] **Ocná Uvtepc** R T . 7 4 7 9 . 9 2 2 / 9 4 2 " o * n q w m { . " o q m c f { . " t { d p f " g m . " r q v q m + 0 " [1 1] **Mariánská Hora** * q d g e " C n d t g e j w k e g " x " L k | g t u m e j " j q t a e j + . " 7 4 7 9 . 9 7 2 " o * n g u + 0 " [1 2] **Ogepft** { " U o f 2 " R T . 7 2 7 8 . " 4 4 2 " o . " t { d p f " g m " u x 0 " q f " t { d p f " m w " F w d " m * o q m c f . r q f o " g p " a n - k p c + 0 " [1 3] **Minkovice** * q d g e " X k - q x + . " 7 2 7 8 . " 4 7 2 " o * r q v q m . " o q m c f + 0 " [1 4] **Mníšek.** " 7 3 7 8 . " 5 : 2 " o . " x n j m 2 " n q w m { " w " f l g n 0 " u v c p k e g 0 " [1 5] **Qnf kej qx' x' J " A f e j . 7 3 7 8 . " 6 2 2 " o . " a u v " P c " R k n a e j " * n q w m { " x " p l x " r q v q m c " L g k e g + 0 " [1 6] **Qnf kej qxum 2 ug fiaq** * P R T " L k | g t u m j q t u m 2 " d w k p { + . " 7 3 7 8 . " 7 2 2 " o . " X k p k p a " e g u c e * d w k p c + 0 " [1 7] **Paseky nad Jizerou.** 7 4 7 : . " 7 9 2 " o . " O c m q x u m " r q v q m 0 " [1 8] **Plavy.** 7 4 7 9 . " 6 2 2 " o . " A f q n f " R q t w d u m 2 " j q " r q v q m c * t { d p f " g m . " n g u p f "**********

rqvqm+0[19] Poustecká obora *x ejqfp "qf"quef{"Rqvwmc."qdge"Xk- qx"+.7278."4:2"o."Dwmqum "rqvqm."ngupf"
 t{dp}m{0[20] Raspenava. 7378."542"o."J qnwdf"rqvqm"rqf"flgn0"vtc"q"o qm cf."qn-kpc+0[21] Tc-gnkp-k-v "Lk|gtm{"PRT."
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 PRT. 737:."52"o*tc-gnkp-k-v ."tc-gnkp²"uot kp{"d gj" gm{"Lk|gt{+0[23] Tglfleg"qdge"mq gpqx+."737:."872"o."
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 Nkdxgtfum "o qm."922"o."d gj"\vtcegp²jq"rqvqmc"ngupf"rtc ogpk-v +0[25] Tm rk *m"xtejqm. PRT"Lk|gtumqjqtum²"dw kp{+.
 7378."822"o*dw kpc."rqvqm+0[26] U Kyselky *lkfp "qf"pqx²jq"O uvc"rqf"U o tmgo+."7479."822"o."Áfqm"vtcegp²jq"
 rqvqmc*o qm cf."ngu."d gj"rqvqmc+0[27] Xªenx{mqxc"Uwvfªpmc"qdge"mq gpqx+."747:."72"o*ªxjmªnqwmc+0

X UNGFM ["C"FKUMWUG

R gjngf|lk-v p ejftwj

Rqwfllv²|mtcv{<"B!"ó"pqx "ftwj"rtq" gej{"CZ!"ó"pqx "ftwj"rtq" gumqw"tgrwdnkmw*pgrrwd/
 nkmqxcp²"rtxqpªng|{+=" U"ó"mcvgiqtgk|" " gtxgp²jq"ug|pc o w"qj tqflgp ej"ftwj "dg|qdtcvn ej"
 T"ªQtu|ª ij" ("Mpq|"4227+<"VU"ó"|tcpkgnp "ftwj0

Alluauodymyia ur0

X xqlqxª"uvª fkc"vqjvq"tqfw"flkl"ªx"nkvtªnªp"o"rª u o w"uvqlcv ej"xqf0"X" T"d{n{"fquwf"|lk-v p{"
 v k"ftwj {"ªMpq| ("Tcvclum "3;:9+0"Uc o keg"|¶umcpªªx"tª o ek"x |mw o w"pc"Ht fncpvmw"m"flª f/
 p² o w"|"v ejvq"ftwj "pgpªngfl"Rqfng"mtgud{"pc"m ¶fngej"ug" o flg"lgfpcv"q"lgfgp"|"fcª-¶ej"
 v ¶gxtqrum ej"ftwj "tqfw"Alluauodymyia."|"pkejfl"pc"ª|g o ¶" T"pgd{n"fqwf"flª fp " |lk-v p0"
 \fc"ug"q"p mvgt " |v ejvq"ftwj "umwvg p "lgfªªx-cm"pgp" o qflpq"dg|"uwfkc"i gpkvªnk"uc o eg"
 u"wt kvquv"tq|jqfppqw0

Ogcpft{"U o f²RT"J34<440XK0/70XKK04227."3" *OV+0

Atrichopogon*ªu0"uvt0+ªalveolatus"Pkgngp."3;73

Rcngctmvkem "ftwj"tq|¶ gp "x"Gxtqr ."|pª o "k"|lkp ej"nqmcnk"v"x" gejªej."cng"rq o tp "x|ªep 0"
 Vgpvq"ftwj"lu o g"wt knk"pc"|"ªmncf "tgfgumtkreg*U|cf|kgyumk"gv"cn0"3;:8+0" gl o "ug"x-cm"lgfªª"
 q"u{pqp{ o w o "ftwjw"Kempia singularis"ªMkghgt."3;43+0"Ux f ¶q"vq o qdtª |gm"g o rqfkc."mvgt "
 wxª f"ªMkghgt"ª3;47<r0"38."qdt0"87+0" FgŁpkvxp "qx-g o "dwf"g" o qflpq"vwvq"u{pqp{ o k|cek" g-kv"
 cfl"rq"utqxpªp"v{rxq ej" o cvgtkªn "qdqw"fqwf"rncvp ej"vczqp 0"

Bílý Potok [1a] < 4; 0XKK0/3; 0XKK04227."3" *OV+ª3; 0XKK0/60KZ04227."3" *OV+0" Lgfªqx "f nRT"J9< 80/4; 0XKK04227."
 3" *OV+0" Ogcpft{"U o f²RT"J34< 3; 0/530X04227."5" .530X0/440XK04227."5" .440XK0/70XKK04227."3" .70/4; 0
 XKK04227."8" .4; 0XKK0/3; 0XKK04227."6" .60/450KZ04227."3" *ªx-g"OV+0" Tglfleg"J45< 4; 0XKK0/380XKK04227."
 3" .380XKK0/30KZ04227."3" .90/440KZ04227."3" *ªx-g"GV+0

Atrichopogon*ªu0"uvt0+ªbrunnipes"ªOgkigp."3;26+

Rcngctmvkem "ftwj"tq|¶ gp "x"ngup"ej"qdcvgej"x"Gxtqr ."Lcrqumw"ªpc"Mcªªtum ej"quvtq/
 xgej0

Bílý Potok [1a] < 3; 0XKK0/60KZ04228."3" *OV+0

Atrichopogon*ªu0"uvt0+ªfuscus"ªOgkigp."3;26+

Rcngctmvkem "ftwj"|"pª o "|"Gxtqr{"ugxgp"¶Chtk{"c"Mcªªtum ej"quvtqx ."x" T"xegnmw"d flp 0"

Bílý Potok [1b] < 530X04226."3" *ªU Y+ª3; 0XKK0/60KZ04227."5" *ªOV+0" Bukovec PR [2a] < 430XK04228."3" ."
 4; 0XKK04227."4" *ªx-g"U Y+0" Plavy [18] < 450XK04228."4" *ªU Y+0" Tc-gnkp-k-v "Lk|gt{"PRT"J44< 320/440XK04225."
 3" *ªOV+0

*Atrichopogon**u0|vvt0+|"griseolus"*\gvgvtuvgvf.v."3:77+

Rcngctmvkem "ftwj|p^a o " |g'ugxgtpf|c"uv gfp|Gxtqr{"x gvp " T0

Bukovec PR [2a]<4:0XKKK04227."5" *U Y +0^a**Frýdlant [3]**<340X04228."3" *U Y +0^a**Jqtpf|Nw cp**{|7<40XKKK04227."3" *U Y +0^a**Oci**"|Uvtpc|RT|J32<40XKKK04227."3" *U Y +0^a**Ogcpft**{|U o f²RT|J34<440X0/70XKK04227."3" *OV+0

*Atrichopogon**u0|vvt0+|"minutus"*Ogki gp."3:52+

Jqncctmvkem "ftwj|u'x um{vg o x'ugxgtpf|c"uv gfp|Gxtqr ."pc|C|qtum ej"quvtqxgej"c"x|K|tcgnk0|X" T"d flp |ftwj0

Bílý Potok [1a]<4:0XKKK0/3;0XKKK04227."3" .3" *OV+0^a**Bukovec PR [2a]**<430X04228."3" *U Y +0^a**Ogcpft**{|U o f²RT|J12<60/450KZ04227."3" *OV+0^a**Minkovice [13]**<440X04228."3" *U Y +0^a**Paseky nad Jizerou [17]**<0KZ04229."3" *U Y +0^a**Tc-gnkp-k-v** |Lk|gtm{|PRT|J43<3:0XK04227."3" *U Y +0^a**Tglfkeg**|J45<90/440KZ04227."3" *GV+0^a**rk am**"|25<460KZ04228."3" *U Y +0

*Atrichopogon**"Lophomyidium+"fusculus"*Eqswnkngv."3;23+

Rqw|g" rwdnkmqxc²"|Áfc|g<D|n " Rqvqm|J3c<3;0XKKK0/60KZ04227."4" *OV+0^a**Ogcpft**{|U o f²RT|J34<530X0/440X04227."3" .440X0/70XKK04227."3" .70/4;0XK04227."3" *x-g"OV+V>vjqx^a" ("Mpq|4228+0
Rcngctmvkem "ftwj.rqo tp |x|ep 0|Rtxqp|ng|{"rtq" T|rwdnkmqxc²"x|rt^aek|V>vjqx^a" ("Mpq|4228+0

*Atrichopogon**"Meloehalea+"lucorum"*Ogki gp."3:3:+

Jqncctmvkem "ftwj0|X" T" c"x"qmnp|ej"uv gfgxtqrum ej"uv^avgej"pgljqlp l-| |^auvwreg"tqfw"
Atrichopogon. Vcm²"x|Lk|gtum ej"jqt^aej|lg| o flg o g"rqxcflqxcv|c|lgfpqjq|"pgljqlp l-|ej"
ftwj ."c'vq|cm|rq vg o |lgfkep ."vcm|k|rq vg o |hqmcnk0|Uc o keg|ucl|jg o qn{| o hw|gl o 2^{pc}pc'dtqw/
e|ej"tqfw"*Meloe*."Nctx{"ug"x{x|gl|g|'xg'xnjm² o "rtquv gf|k'xg'xqf 0

Bílý Potok [1a]<50/380X04227."3" .380X0/80XKK04227."3" *x-g"OV+V>430X04228."4" *U Y +=|**Ib**<530X04226."37" .40X04227."3" *x-g"U Y +=|**Ie**: 3;0/440X04228."8" *U Y +0^a**Bukovec PR [2a]**<3:0XK04227."6" *U Y +=|**2c**<90X04226."6" *U Y +0^a**Frýdlant [3]**<340X04228."5" .440X04228."8" *x-g"U Y +0^a**Jqtpf|Nw cp**{|7<40XKKK04227."3" *U Y +0^a**Horní Polubný [6]**<3;0XK04228."3" *U Y +0^a**Lgfngx** |f n|RT|J9<380X0/80XKK04227."3" *OV+V>340XKK04227."6" *U Y +0^a**Mq gpqx**|<3;0XK04228."4" *U Y +0^a**Ogcpft**{|U o f²RT|J34<530X0/440X04227."5" *OV+0^a**Minkovice [13]**<440X04228."3" .3" *U Y +0^a**Mníšek [14]**<4;0X04227."3" .37" *U Y +0^a**Qnf kejqx**"x|J|**Ie**|J37<490X04226."35" *U Y +0^a**Plavy [18]**<450X04228."3" *U Y +0^a**Raspenava [20]**<330X04228."3" *U Y +0^a**Tc-gnkp-k-v** |Lk|gtm{|PRT|J43<380X0/50XKK04227."3" *OV+V>3:0XK04227."3" .450X04227."3" *x-g"U Y +=|70/4:0XKK04227."3" *RV+0^a**Tglfkeg**|J45<470X04227."32" *U Y +=|520X0/380X04227."4" .70/4:0XKK04227."3" *x-g"GV+0^a**rk am**|J47<70/;0XKK04228."4" *|RV+0^a**U Kyselky [26]**<520X0/50X04229."3" *RV+0^a

*Atrichopogon**"Meloehalea+"oedemerum"Uvqt°. "3;5;

Fqpgf^axpc'd{n|rqxcflqx^ap|c|jqncctmvkem "ftwj0|R k'pgf^axp²tgxk|k|rqftqfw"*Meloehalea* x-cm|d{nq|rtqm^a |^apq."flg|g"tq| -|gp|k'x"pgqvtqrkem²qdcuvk"*V>vjqx^a"422:+0|X" T" k"x"qmnp|ej"uv^avgej"uv gfp|Gxtqr{"p^angf|'m|rqo tp " cuvq"ug"x{um{vwl|e|o"ftwj o0|Uc o keg|ucl|jg o q/n{| o hw"pc'dtqwe|ej"tqfw"*Meloe* k' r |dw|p ej"tqf 0|Nctx{"ug"x{x|gl|g|'xg'xnjm² o "rtquv gf|."pcr 0|x"j|p||fgej"rv^am 0

Bukovec PR [2a]<430X04228."3" *U Y +0^a**Frýdlant [3]**<340X04228."3" *U Y +0^a**Lgfngx** |f n|RT|J9<80/4:0XKK04227."3" *OV+V>340XKK04227."4" *U Y +0^a**Tc-gnkp-k-v** |Lk|gtm{|PRT|J43<450X04227."3" *U Y +=|70/4:0XKK04227."3" *OV+0

Atrichopogon *Psammodopogon+"t^acxgnvuw"\kn^ajk|Ugdguu."3;58"

CZ!

Rcngctmvkem "ftwj|p^a o " |g'ugf o k'gxtqrum ej"uv^av ."|cej{egp"tqxp fl"pc"Unqxpumw0|X|Lk|gt/um ej"jqt^aej"rqrtx²"|c|pc o gp^ap|pc"Á|g o |" T0|Uc o keg|luqw"v² o "pgtq|nk-kvgnp²"qf"ftwjw"
Atrichopogon muelleri *Mkghgt."3;27+0

Bukovec PR [2d]<360KZ0/90Z04227."3" *RV+0

Atrichopogon **Psammopogon*+*muelleri* *Mkghgt."3;27+

Rcngctmvkem "ftwj."x" T"fquwf"|p^ao "rqw|g|" gej."rqo tp "x|^aep "c"lgp"xcg"x{—fej"
rqncj^aej0

Bukovec PR [2d]< 360XK0/90X04227."3" *RV+0"**Mariánská Hora [11]**< 370Z04227."3" *UY+0"**Minkovice [13]**<
440XK04228."3" *UY+0"**Plavy [18]**< 450XK04225."3" *UY+0"**Uo tm**]46c_< 520KK0/50X04229."3" *RV+0

*Atrichopogon***Psilokempia*+*forcipatus**Ykppgtv|."3:74+

Rcngctmvkem "ftwj"tq|—|gp "x"Gxtqr "c"pc"x ejqfp"^oUkdk k0"X" T|p^ao "rqw|g|" gej."
x|^aep l—|x um{v0"

Jqtp^oNw cp]7_< 40XKK04227."3" *UY+0

*Atrichopogon*ur0

Lgfkp^a|^oumcp^aucokeg"r gfuvxwlg"rtcx f r q f q d p "p q x "f t w j . p c "l g j q f l "r q r k u w "u g "x "u q w c u /
p²"f q d "r t c e w l g 0 "L g "v { r k e m "a "x g n k e g "m t "a v m o "r c n r "a n p "o "o c m c f i g o "u "v² o "m w n q x k v o "v g v "o "
n^apmg o 0

Ogcpft{**Uo f²RT**]34_< 530X0/440XK04227."3" *OV+0

Bezzia *u0"uvt0+ *coracina* * \ g v g t u v g f v . " 3 : 7 2 +

Ftwj"tq|—|gp "x"egn²o"rcngctmw."x" T|p^ao "rqw|g|" gej0

Tc-gnkp-v "Lk|gtm{**PRT**]43_< 380XK0/50XKK04227."3" *OV+0

Bezzia *u0"uvt0+ *pygmaea* I q g v i j g d w g t . " 3 ; 4 2

Ftwj"tq|—|gp "x|"rcf^oo"rcngctmw."x" T|p^ao "rqw|g|" gej0

Ogcpft{**Uo f²RT**]34_< 440XK0/70XKK04227."4" .70/4;0XKK04227."3" *x-g"OV+0"**Tglfk**]45_< 70/4;0XKK04227."
3" *GV+0

Brachypogon **Isohelea*+ *incompletus* *Mkghgt."3;47+" **CZ!**

Rcngctmvkem "ftwj"pgl cuv lk"wx^af p "l"Gxtqr{"mfg"d{n" cuvq"pgurt^axp "fgvgtokpqx^ap"rqf"
lkp ok"l o 2p{<"*Helea thienemanni* Oc{gt."3;62."*Ceratopogon lapiae* Encuvtkgt."3;83"pgdq"
C. perpusillus *Gf yctfu."3;43+0"Dnflg"q"v ejvq"pq o g p m c v q t k e m e j "q w | m " e j " x k | " U | c f | k g y u m k "
g v " c m 0 * 3 ; ; 6 + 0 " L g f p " a " u g " q " r t x q p " a n g | { " r t q " T 0 " D k q n q i k g " l g " r q f q d p " a " l c m q " x " r " r c f " f t w j w " B r a c h y -
pogon sociabilis * I q g v i j g d w g t . " 3 ; 4 2 +

Bílý Potok [1a]< 50/380XK04227."3" * [RV+0]**Lgf^aqx "f n"RT**]9_< 340XKK04227."4" *UY+0"**Tc-gnkp**-v "Lk|gtm{
PRT]43_< 3;0X0/50XK04227."4" .50/380XK04227."3" .70/4;0XKK04227."3" *x-g" [RV+=380XK0/50XKK04227."3" "
*OV+=340XKK04227."4" *UY+0

Brachypogon **Isohelea*+ *nitidulus* *Gf yctfu."3;43+

Rcngctmvkem "ftwj"tq|—|gp "qf"|^arcf^oGxtqr{"cfl"rq"Fa^anp "x ejqf."x" T"fquwf"l g f p q | p c p "
rtqm^a|^ap"lgj"q"x um{v"lgp"x" gej^aej0"Dkqnqikg"lg"rqfqp^a"lcmq"w *B. sociabilis*.

Bílý Potok [1a]< 50/380XK04227."3" * [RV+0]**Lgf^aqx "f n"RT**]9_< 340XK04227."4" *UY+0"380XK0/80XKK04227."3" "
*OV+0"**Tc-gnkp**-v "Lk|gtm{**PRT**]43_< 380XK0/50XKK04227."3" .3" *OV+=380XK0/70XKK04227."3" .70/4;0XKK04227."
3" *x-g" [RV+0"**Uo tm**]46_< 340XK0/350XKK04228."3" *OV+0

*Brachypogon***Isohelea*+*sociabilis* * I q g v i j g d w g t . " 3 ; 4 2 +

Rcngctmvkem "ftwj"|p^ao " | g l o 2 p c " | " G x t q r { " * R q n u m q . " P o g e m q . " H t c p e k g . " G u v q p u m q . " N k v x c . "
T w u m q " c l 0 + 0 " X " T " d { n " f q u w f " r t q m c | c v g n p " | l k - v p " l g p " x " g e j " e j 0 " X x q l " r t q d " j " a " x " | c o q m g p e j "

r f^aej | gl o²pc"x { --f^aej" rqnqj 0" Fqur nek"ug"flkx"pgmvctg o"mx v . "pcr 0"lg^adw"*Sorbus"ur r0+." l{x {"*Salix caprea+. "t {d{ |w"*Ribes ur r0+"c"jx | fpkeqxkv ej"*Cuygtcegcg+*Tg o o"3;96+0

Bílý Potok [1a]< 50XK0/380XKK04227."3" *OV+0"**Bukovec PR [2a]**< 3:0XK04227."3" *UY+="{**2c**< 430XK04228."3" *UY+0"**Jedlový f n"RT"**9< 380XK0/80XKK04227."4" *OV+0"**Paseky nad Jizerou [17]**< ;0KZ04226."3" *UY+0"**Raše-nkpk-v** "Lk|gtm{"**PRT"**43< 3;0X0/50XK04227."8" .50/380XK04227."3" .5" .3;0XKK0/70KZ04227."3" *x-g"OV+="380XK0/70XKK04227."4" *RV+0

Ceratopogon communis Ogki gp."3:26"

Rcngctmvkem "ftwj"tq|-f gp "xg"uv gfp"l"ugxgtp"Gxtqr ."x" T"|p^a o "rqw|g|" gej0

Bukovec PR [2a]< 450XK04227."3" *UY+0"**Jqtpf** gtp"Uvwfpeg"l6< 450XK04227."3" *UY+0"**Jqtpf"NW cp**{77< 40XKK04227."3" *UY+0"**Tc-gnkp-v** "Lk|gtm{"**PRT"**43< 3;0X0/50XK04227."4" *RV+="380XK0/70XKK04227."3" .4" *RV+0

Ceratopogon lacteipennis \gvgtuvfvf."3:5:"

U<VU

Rcngctmvkem "ftwj"tq|-f gp "x"Gxtqr ." I t>pumw."pc"Mc^atum ej"quvtqxgej."x" T"|p^a o "rqw|g|" gej0

Bílý Potok [1a]< 50/380XK04227."3" *OV+0"**Lgfnqx** "f n"RT"9< 380XK0/80XKK04227."5" *OV+0"**Tc-gnkp-v** "Lk|gtm{"**PRT"**43< 50/380XK04227."6" .5" *OV+="70/4:0XKK04227."3" *RV+0"**Tc-gnkp-v** "Lk|gt{"**PRT"**44< 320/480XK04225."3" *OV+0

Ceratopogon naccinervis Dqtmgpv."3;9

Rcngctmvkem "ftwj"d flp "x"egn²"Gxtqr ." f f^axg"wx^af p "rqf"u{pqp{og o"C. crassinervis I qv i jgdwtg."3;420

Bukovec PR [2a]< 430XK04228."4" *UY+0"**Tc-gnkp-v** "Lk|gtm{"**PRT"**43< 50/380XK04227."3" *RV+="380XK0/70XKK04227."6" *OV+0"**Tc-gnkp-v** "Lk|gt{"**PRT"**44< 320/480XK04225."3" *OV+0

*Culicoides***Avaritia*+*abchazicus* F |jchctqx."3;86

Rq o tp "x|^aep "rcngctmvkem "ftwj"u"x um{vg o"lgp"xg"x { --f^aej" rqnqj^aej"x" |>>p "lgjnk pcv ej" ngu "cfl"rq"r^auo"mququqf gxp{"\g"Unqxpumc"lgl"rtxp "wx^af"Qt|u^a i j *3;:2+0"

Tc-gnkp-v "Lk|gtm{"**PRT"**43< 50/380XK04227."3" *OV+0

*Culicoides***Avaritia*+*obsoletus* *Ogki gp."3:3:+

Jqncctmvkem "ftwj"r^auo c"lgjnk pcv ej"ngu ." |p^a o " |x^afeg" |g o"uv gfp"Gxtqr {" cuvq"xgn ok" jqlp 0"Uclg"pc" nqx mw."x xql"x"vgmqwe"fej"xqf^aej" k"x"vngl"e"fej"qti cpkem ej"n^avm^aej" c" |coqm/ gp ej"r f^aej0

Bílý Potok [1a]< 430XK04228."3" *UY+="4;0XKK0/3;0XKK04227."3" *OV+0"**Bukovec PR [2a]**< 430XK04228."3" *UY+0"**Ocn"**Uvtcpc"RT"32< 40XKK04227."3" *UY+0"**Mariánská Hora [11]**< 370Z04227."3" *UY+0"**Ogcpft**{**Uo f**"RT"12< 530X0/440XK04227."4" *OV+0"**Tc-gnkp-v** "Lk|gtm{"**PRT"**43< 3;0XK04227."3" *UY+0"**Tglfleg**45< 470X04227."4" *UY+="50/380XK04227."3" *RV+0"**Uo tm**46c< 40/430XK04227."3" *RV+="450KZ04228."3" *UY+0

Culicoides **Avaritia*+*scoticus* Fqypgu"gv"Mgvng."3;74

Rcngctmvkem "ftwj" |p^a o " |x^afeg"nqmcnk"x" Gxtqr 0"lgjq{nctx{"d{n{" |lk-v p{"x"rnqfpe"fej"jwd0" X" gej^aej" k"pc"Oqtex "d flp 0

Mrk "m"47< 420XKK04227."3" *UY+0

*Culicoides***Beltranmyia*+*sphagnumensis* Yknnk o u."3;77

Jqncctmvkem "ftwj" |p^a o " |nqmcnk"x" |>>p "ngu "c"vcli {0"Uc o keg"luqw"qtpkvqLnp"jg o cvqh^a i qx²." nctx{"ug"rcvtp "x{x^agl"l"x"tc-gnkp-v"fej0"Rq o tp "x|^aep "ftwj."x" T"fquwf" |lk-v p"lgp"x" gej^aej" *Pqxqp^a3;:9+0

Tc-gnkp-v "Lk|gtm{"**PRT"**43< 380XK0/70XKK04227."4" .7" *OV+0

*Culicoides**u0"uvt0+ *fagineus* Gf yctfu."3;5;
Rncgctmvkem "ftwj" |p^a o " |glo²pc" |"gxtqrum ej"nqmcnk"x"qdcuvgej"nkuvpcv ej"ngu 0"Qrtqvk"
lkp o" |^auvwre o"rqftqfw"lg"lgjq"x um{v"x|^aep l-0" P^ang| {"x" T"luqw"lgp"qlgfkp n²."x"eg"
|p^a o "lg" |g"Uniqxgpmc"*Qtu|^a i j"3; :2+0"Uc okeg"p^angf"m"jg o cvqh^a i p"o"rcmq o^ate o 0
Tc-gnkp-v "Lk|gtm{"PRT"}J43< 380XK0/70XKK04227."3" * [RV+0]

Culicoides *u0"uvt0+ *griscens* Gf yctfu."3;5;
Rncgctmvkem "ftwj"tq|-f gp "xg"uv gfp"|"^arcfp"Gxtqr "x"qdcuvgej"u o f-gp ej"|"lgjnk pcv ej"
ngu 0"Uclg"pc" nqx mw"|"c"p"x v-f"ej"jqurqf^a um ej"|"x" cvgej 0
Tc-gnkp-v "Lk|gtm{"PRT"}J43< 390XKK0/70KZ04227."3" *OV+0

Culicoides *u0"uvt0+ *impunctatus* I qgvi jgdwt."3;42
Rncgctmvkem "ftwj"ug" |c|pc o gpcp o"x um{vg o"x" |g o f"ej"Gxtqr {"k"Cukg0"X" T"|"x"qmnp"|"e"
uv gfgxtqrum ej"uv^avgej"pc"xjqfp ej"dkvqrgej"fqvk" cuv ."x"qdcuvgej"u o f-gp ej"ngu "
D x^a"xgn o k" jqlp 0"Uc okeg"luqw" o c o cnkqLnp" jg o cvqh^a i qx²."pcrcfcl"|"e" cuvq"|"k" nqx mc0"
X xq|nctgx"xg"xqfp"o"rtquv g f"0

Bílý Potok [1a]< 430XK04228."3" *U Y +0"**Bukovec PR [2a]**< 4:0XKK04228."3" *U Y +=[2c]: 430XK04228."3" *U Y +0"
Jqtp" gtp"Uwfpkleg"J6.< 450XK04228."3" *U Y +0"**Jizerka [8]**< 440XK04228."9" *N+0"**Tc-gnkp**-v "Lk|gtm{"PRT"
[21]< 450XK04227."3" .3" *U Y +0"**Tglfleg [23]**< 70/4: 0XKK04227."7" *GV+0

Culicoides *u0"uvt0+ *pulicaris* *Nkppcgwu."397:+
Rncgctmvkem "ftwj." |p^a o " |" cf {" |g o f"uv gfp"Gxtqr {0" Ocuqx "ug" x {um {vwlg"xg"uv gfp"|"e"
rqnqj^aej"lgjnk pcv ej"ngu ."uclg"pc" nqx mw0
Ogcpft{"U o f²"RT"}J34< 440XK0/70XKK04227."3" .70/4: 0XKK04227."3" .4: 0XKK0/3: 0XKK04227."4" *x-g"OV+0"
Tglfleg"J45< 520X0/380XK04227."4" .380XK0/80XKK04227."3" *x-g"GV+0"

Culicoides *u0"uvt0+ *punctatus* *Ogki gp."3:26+
Rncgctmvkem "ftwj." o cuqx "tq|-f gp "qf"p"flkp"rq"jtcpkel"lgjnk pcv ej"ngu 0"\p^a o " |" cf {" |g o f"
uv gfp"Gxtqr {"uclg"pc" nqx mw0
Tc-gnkp-v "Lk|gtm{"PRT"}J43< 380XK0/70XKK04227."3" * [RV+0]

*Culicoides***Oecacta*+ *albicans* *Ykppgvt|. :3:74+
Rncgctmvkem "ftwj"tq|-f gp "x"|"^arcfp"|"c"uv gfp"Gxtqr 0"Rq o tp "x"|"^aep ."uclg"mtgxo
Bukovec PR [2b]< 4: 0X04226."3" *U Y +0

Culicoides **Oecacta*+ *fascipennis* *Uvcigt."3:5;+
Jqncctmvkem "ftwj"x {um {vwl"|"e"ug"qf"p"flkp"rq"r^auoq"u o f-gp ej"ngu 0"\p^a o " |" cf {" |g o f"uv gfp"
Gxtqr {"cmvxp"pcrcf^a" nqx mc0
Bílý Potok [1a]< 3: 0XKK0/60KZ04227."3" *OV+0"**Horní Polubný [6]**< 3: 0XKK0/60KZ04227."3" *U Y +0"**Ogcpft**{"U o f²"
PR [12]< 530X0/440XK04227."3" .3" .4: 0XKK0/3: 0XKK04227."4" .4" *x-g"OV+0"**U o tm**"J46c.< 40/430XK04227."
44" * [RV+0]

Culicoides **Oecacta*+ *festivipennis* Mkgghgt."3:36
Rncgctmvkem "ftwj"tq|-f gp "qf"Gxtqr {"rq"lcrqumq"x"nkuvpcv ej"ngu"|"e"."|p^a o " |" cf {" |g o f"
uv gfp"Gxtqr {0"QtpkvqLnp"ftwj 0
Ogcpft{"U o f²"RT"}J34< 440XK0/70XKK04227."3" *OV+0

*Culicoides *Oecacta+ kibunensis* Vqmwpic."3;59

Jqncmvmek "ftwj"tq|-f gp "x"Xgtqr 0"X{um{vwlg"ug"xg"uv gfpf"ej"rqnjq"ej"x"nkuvpcv ej"cuo"o/f/ -gp ej"ngu"ej"."cmvxp "uclg"mtgx0

Bílý Potok [1a]< 70/4;0XKK04227."4" *U Y += [1b]< 40XKK04227."3" *U Y +0"

*Culicoides *Oecacta+ pallidicornis* Mkgghgt."3;3;

Rcngctmvmek "ftwj"tq|-f gp "x"|"a rcfp"cu"uv gfp"Xgtqr 0"X"nkuvpcv ej"cuo"o/f/-gp ej"ngu"ej"."cmvxp "pccrf"nqx mcl0

Bílý Potok [1b]< 40XKK04228."3" *U Y +0"TC-gnkp-v "Lk|gtm{"PRT"}43< 70/4:0XKK04227."3" * [RV+0"

*Culicoides *Oecacta+ segnis* Ecorgn"gv"Rgnjco/Enkpvqp."3;82

Rcngctmvmek "ftwj"tq|-f gp "x"|"a rcfp"ugxgtp"cu"uv gfp"Xgtqr "u"x um{vg"o"x"|cngup p ej" qdncuvej0"QtpkvqLnp"ftwj."r |ngflkvqup "pccrf"nqx mcl0

Ogcpft{"Uo f"RT"}34< 530X0/440XKK04227."3" .440XKK0/70XKK04227."3" *OV+0"TGlfieg"]45< 70/4:0XKK04227."3" *OV+0"

*Culicoides *Oecacta+ subfasciipennis* Mkgghgt."3;3;

Rcngctmvmek "ftwj"tq|-f gp "x"|"a rcfp"cu"uv gfp"Xgtqr ."qf"p"flkp"rq"r"auoq"uo"o/f/-gp ej"ngu" 0" Uclg"pc"nqx mw."cng"pgp"o"cuqx "tq|-f gp 0

Ogcpft{"Uo f"RT"}34< 440XKK0/70XKK04227."4" *OV+0"TC-gnkp-v "Lk|gtm{"PRT"}43< 390XKK0/70KZ04227."3" *OV+0"TGlfieg"]45< 70/4:0XKK04227."4" *GV+0

*Culicoides *Oecacta+ ur. chh0 pallidicornis*

Xg"ud tgej"|"Lk|gtm ej"jqt"K"ht fncpvumc"luog"rqo tp "cuvg"pcn²|cnk"ftwj"dn"eg"r"fdw|p "ftwj o"umwrkp{"C. pallidicornis."nk-"e"ug"qf"x-gej"ftwj "v²vq"umwrkp{"m f"fn{"dg|"d"fn ej" umxtp"cu²t"p"vwx" gp o"ugpuqtkg o"pc"50" n"pnw"o cmcfn"uc okeg0"X"lgjq"uvfwk"dwf"fg"ng" rqtmc qx"pq"cu"ng fm{"dwfqw"fqf"evg p "rwdnkmqx"ap{0

Ogcpft{"Uo f"RT"}34< 4;0XKK0/3;0XKK04227."3" *OV+0"TC-gnkp-v "Lk|gtm{"PRT"}43< 380XKK0/70XKK04227."4" * [RV+0"TGlfieg"]45< 520X0/380XKK04227."3" .380XKK0/30KZ04227."3" .30/440KZ04227."3" *x-g"GV+0

*Dasyhelea *u0"uvt0+"pallidiventris"* Iqgvi jgdwgt."3:53+" **B!**

Rcngctmvmek "ftwj"tq|-f gp "x"Xgtqr ."x" T"|"p"o "rqw|g"|"Oqtcx{0" cuvg"pcej"|"gp"r k"u"ap" - "x{"uvtqo 0

Bílý Potok PR [1b]< 40XKK04227."3" *U Y +0"

*Dasyhelea *u0"uvt0+"septuosa"* Dqtmgpv."3; ;9" **B!**

Ftwj"tq|-f gp "x"|"a rcfp"o"ku"ejqfp"o"rcngctmwv."x" T"|"p"o "rqw|g"|"Oqtcx{0" cuvg" pcej"|"gp"r k"u"ap"- "x{"|g"uvtqo 0"X"pgf"xp²"fqd "d{n"vgpvq"ftwj"u{ppq{ok|qx"ap"U|cf/ |kgyumk" ("Fqokpkm"4228+"c"rcnvp²"l o²pq"lg" F0" t"cxkhtqpu" I w²tkp."3:55+."pke o²p "pgrwd/ nkmqxc²"x ng fm{"*C0"V»vjqx" .pgrwdn0+"cpcn |"FPC"rqvxt|w|"xcnkfkvw"v "rtqdn"ocvkm ej" ftwj "D. versicolor; D. septuosa, D. saxicola+0"Rtxqp"ng|{"rtq" gej{0

Bílý Potok [1a]< 430XKK04228."3" *U Y += 4;0XKK0/3;0XKK04227."3" *OV+0"Frýdlant [3]; 440X04228."3" *U Y +0"Horňí gtp"Uwfpieg"]6< 450XKK04228."3" *U Y +0"Lfngx "f r"RT"]9< 3;0/520X04227."3" * [RV+0"Ogcpft{"Uo f" PR [12]< 440X0/70XKK04227."3" *OV+0"Plavy [18]"450XKK04228."35" *U Y +0"TGlfieg"]45< 470X04227."3" *U Y += 520X0/380XKK04227."3" .3" * [RV+0"380XKK0/80XKK04227."4" .4:0XKK0/380XKK04227."3" *x-g"GV+0

*Dasyhelea***Dicryptoscena*+*modesta**Ykppgtv|.3:74+u0"n0

Umwrkpc"rcngctmvkem ej"ftwj "fquwf"tq|nk-kvgnp ej"lgp"rqfng"igpkv^ank^l"uc o e 0"Nctx{"ug"x{x|gl|gl"
xg"xnjm²"r f "r k'd g|ej"t{dp^lm "c"lg|gt0

Bílý Potok [1b]< 530XK0/4226."3" *dg|"igpkv^ank^l."3" *U Y +0 **Bukovec PR [2c]**< 430XK0/4228."3" *U Y +0 **Meandry U o f²RT**]34< 440XK0/70XKK0/4227."3" *OV+0

Dasyhelea **Pseudoculicoides*+*tcxquewvgm^{cvc}**\gyvgtuvfv."3:72+u0"n0

Umwrkpc"x|eg"ftwj ."mvg^t"lg"oqflpq"dg|rg p "wt kv"lgp"rqfng"igpkv^ank^l"uc o e 0

Ogcpft{**U o f²RT**]34< 3;0/530XK0/4227."4" * [RV+0 **Tc-gn^{pk}-v** "Lk|gtm{"**PRT**]43< 380XK0/70XKK0/4227."3" *
*OV+=4:0XKK0/390XKK0/4227."3" * [RV+0

*Dasyhelea***Prokempia*+*lutea*"Tg o o."3;8:"

CZ!

Rcngctmvkem "ftwj"|p^a o "|Wmtlcp{0"Rtxqp^ang"rtq" T."ftwj "p^ang|x"Gxtqr "qf"fcvc"rqrk^uw0

Tc-gn^{pk}-v "Lk|gtm{"**PRT**]43< 50/380XK0/4227."3" *OV+0

*Forcipomyia***Caloforcipomyia*+*glauca*"OceŁg."3;56

Ftwj"u"x um{vg o"x"j qnctmvkem²"c"pgqvtqrkem²"qdncu^wk."x" T"|p^a o "lgp"|" gej0

Tc-gn^{pk}-v "Lk|gtm{"**PRT**]43< 4:0XKK0/390XKK0/4227."3" *OV+=4:0XKK0/4227."3" *U Y +0

*Forcipomyia***Euprojoannisia*+*alacris**Ykppgtv|.3:74+

Rcngctmvkem "ftwj"|p^a o "|g"uv gfp^l"c"x ejqfp^l"Gxtqr{"u" kf-^lo"x um{vg o0"Nctx{"vqj^qvq"
rqftqfw"ug"x{x|gl|gl"x"ug okcmxcvkem ej"jcdkvcvgej"pc"rqxtejw"umcnkugm"pgdq"x{u{ejcl^l/
e|ej"dncv"rqqt^uwn ej" cuc ok."x" o qm^t2 o" o gejw." o qm^t2 o"qrcfc^p2 o"nku^vl."xg"uvqpe|ej"tquw^{nk}p"
k"x"ejq o^a "ej"qfw o|tcl^le^l"xqfp^l"xg igvce^gpc"tq|j tcp^l"uq^w-g"c"xqfp^l"p^a f^lfg+0" Fqur nek"ug"
flx^l"pgm^{vt}g o"|mx v "p mvg^t ej"tquw^{nk}p"c"rnp^l"vc^m"hwpmek"qr{ⁿqxc 0"X"vtqrkem ej"qdncu^vgej"
luq^w rcv^t "lgf^kp ok"j o{|^lo^k"qr{ⁿqxc k^lmc^{mc}qxp^lm "D{^uvtcm (" Yktv^j"3;9:+0"X"pc-g o"
xg igv^c p^lo"r^au o^wr krcfcl^l"x^axcjw^lcmq^r{ⁿqxc k^l o tmxq^xv ej"*F^cw^ecege^g."r ^lo²f mc|{"
q"vq o"x-cm"fq^wf"pg o^a o g0

Bílý Potok [1a]< 50/380XK0/4227."3" *OV+0 **Ogcpft**{**U o f²RT**]34< 60/3;0X0/4227."3" .440XK0/70XKK0/4227."3" *
*OV+0 **Qnf lej qxum²ugf^lq**]38< 70Z0/4227."3" *U Y +0 **Tglf^leg**]45< 380XKK0/30KZ0/4227."3" * [RV+0

*Forcipomyia***Euprojoannisia*+*titillans**Ykppgtv|.3:74+

Jqnctmvkem "ftwj."x"Gxtqr "k"x" T"|egnc'd flp ."p^lg^l cu^v lk"jn^a-gp "|^auw^vreg"rqftqfw"*Eupro-*
joannisia.

Bílý Potok [1a]< 380XK0/70XKK0/4227."5" .3;0XKK0/60KZ0/4227."4" *x-g"OV+=**[1c]**< 3;0/440XK0/4228."3" .3" *
*U Y +0 **Lgf^lq^x f nRT**]9< 340XKK0/4227."3" *U Y +=520X0/380XK0/4227."6" .380XK0/80XKK0/4227."3" .80/4:0XKK0/4227."
5" .4:0XKK0/430XKK0/4227."4" .4" .30/440KZ0/4227."3" .;" *x-g"OV+0 **Tc-gn^{pk}-v** "Lk|gtm{"**PRT**]43<
70/4:0XKK0/4227."3" *RV+=390XKK0/70KZ0/4227."3" *OV+0 **Tglf^leg**]45< 70/4:0XKK0/4227."3" .380XKK0/30KZ0/4227."
5" .90/440KZ0/4227."5" *x-g"GV+0 **U o tm**]46< 40/430XK0/4228."3" .430XK0/350XKK0/4228."3" *x-g"OV+=**[24b]**<
420XK0/4228."3" *U Y +0 **rk^am**]47< 420XKK0/4227."3" .460KZ0/4228."3" *x-g"U Y +0

Forcipomyia **Euprojoannisia*+*phlebotomoides*"Dcpigtvtg."3;55

Rcngctmvkem "ftwj."x" T"|p^a o "rqw|g|" gej."lgjq^l"f^lgvgt okpce^g"lg" cu^vq^lq^vflp^a"mx nk"ej{|/
d^le^lo"uc o e o"u^v{^rrkem o"j {^rqr{^lkg o0"Uc o keg"luq^w"v flmq^lq^lfk^l-kvgnp²"qf"qucvp^l|ej"ftwj "
rqftqfw0

Tglf^leg]45< 70/4:0XKK0/4227."3" *GV+0

*Forcipomyia**u0|uvf0+"bipunctata"*Nkppcgwu."3989+

Jqncmvmkem "ftwj"u"x um{vg o"xngup|ej"kvgrp|ej"qdcncuvej."|p^a o "| cf{| |g o|uv gfp|Gxtqr {0"
Nctx{"d{n{| |lk-v p{|x"vtwuw"ur^atmcv²|x g"l"kg"xqf|p|o"rtquv gf|0"Uc okeg"ug^aflkx|pgmvtc o"
mx v "t |p ej"tquvnp"kvjg o qn{ ohqw"lkp²j|q"j o{|w0"D flp "ftwj."x"lk|gtum ej"jqt^aej"d{n"
|lk-v p"r gmxcrcx "lgp"pc"p mqnkmc"nqmcnk^aej0

Bílý Potok [1a]< 4; 0XKK0/3; 0XKK04227."3" .3; 0XKK0/60KZ04227."6" *x-g"OV+0"m^q gpqx"; <3; 0XK04228."3" *U Y +0"
Ogcpft{U o f²RT"}34< 60/3; 0X04227."3" *OV+0"t^glfk^g]45< 380XK0/80XKK04227."4" .70/4; 0XKK04227."4" ."
4; 0XKK0/380XKK04227."7" .90/44KZ04227."3" *x-g"GV+0"U o tm"]46c_<340XK0/350XKK04228."3" .3" *OV+0

*Forcipomyia**u0|uvf0+"brevipennis"*Oceswctv."3:4: +"

Jqncmvmkem "ftwj"u"x um{vg o"pc"nqmcnk^aej"x" |cngup p ej"cvgrp|ej"qdcncuvej0"X"Gxtqr "
|egnc"d flp ."x" T"|lk-v p^v2 o "xg"x-gej"|mqw o cp ej"A|g o|ej0"X"lk|gtum ej"jqt^aej"pcng|gp"
rqw|g"pc"v gej"nqmcnk^aej0

Lgfⁿqx "f r"RT"}9< 4; 0XKK0/430XKK04227."3" *OV+0"t^c-gnkpk-v "Lk|gtm{"PRT"}43< 4; 0XKK0/390XKK04227."3" "
*OV+0"t^glfk^g]45< 380XKK0/30KZ04227."3" *GV+0

*Forcipomyia**u0|uvf0+"ciliata"*Ykppgtv|."3:74+

D flp "jqncmvmkem "ftwj."|p^a o "|x|eg"|g o|uv gfp|Gxtqr {0

Bílý Potok [1a]< 4; 0XKK0/3; 0XKK04227."3" *OV+0"m^q gpqx"; <3; 0XK04228."3" *U Y +0

*Forcipomyia**u0|uvf0+"lugubris"*\ gwgtuvfv."3:77+

CZ!

O^anq"|p^a o "rcngctmvmkem "ftwj"rqrucp " |g"tm^x2func0"t^gfgumtkrek"ngevqv{rw"uc okeg"rtqxfn"
U|cf|kg y umk^a3; :8+."uc oge"ppp|p^a o 0"Rtxqp^ang|"rtq" T0

Tc-gnkpk-v "Lk|gtm{"PRT"}43< 4; 0XKK0/390XKK04227."3" * [RV+0

*Forcipomyia**u0|uvf0+"hygrophila" Mkghgt."3:47

Jqncmvmkem "ftwj"x{um{vw|f|e|ug"xngup|ej"qdcncuvej0"D flp "ftwj"|p^a o "| o p|jc"|g o|uv gfp|Gxtqr {0

Horní Polubný [6]< 4; 0XKK0/3; 0XKK04227."3" *OV+0"b^ukovec PR [2c]; 90XK04226."3" *U Y +0

*Forcipomyia**u0|uvf0+"kaltenbachii"*Ykppgtv|."3:74+

Rcngctmvmkem "ftwj"wx^af p " |gl o²pc"|"Gxtqr {.F^anp²j|q"x ejqfw" c"|"Mcp^atum ej"quvtqx 0"
X" T"lg"|p^a o "|x|eg"nqmcnk0"X xql"rtqd|j^axg"xqf|p|o"rtquv gf|0

Bílý Potok [1a]< 4; 0XKK0/3; 0XKK04227."4" *OV+0"t^c-gnkpk-v "Lk|gtm{"PRT"}43<3; 0X0/50XK04227."3" *U Y +0

*Forcipomyia**u0|uvf0+"nigra"*Ykppgtv|."3:74+

Rcngctmvmkem "ftwj"u^v flk-v o"tq|-|gp|x"Gxtqr "cfl"uv gfp|Cukko"Xg"uv gfp|Gxtqr "x gvp" T"d flp "
ftwj0"lgjq"nctx{|d{n{| |lk-v p{|x"rnqf|pke|ej"jwd0"Uc okeg"ug^aflkx|jg o qn{ ohqw"lkp²j|q"j o{|w0

Lgfⁿqx "f r"RT"}9< 340XKK04227."3" *U Y +=3; 0/520X04227."5" .520X0/380XK04227."3" .4; 0XKK0/430XKK04227."
7" .30/44KZ04227."9" *x-g"OV+0"t^c-gnkpk-v "Lk|gtm{"PRT"}43<3; 0/520X04227."3" *OV+0"t^glfk^g]45<
380XKK0/30KZ04227."4" *GV+0"U o tm"]46c_<40/430XK04228."3" *OV+0

*Forcipomyia**u0|uvf0+"nigrans" Tgo o."3:84"

B!

X|^aep l-|rcngctmvmkem "ftwj."tq|-|gp "x"r vk"uv^avgej"Gxtqr {"c"pc" F^anp² o"x ejqf ."x" T"
|p^a o"|c|o"rqw|g"|"À|g o|Oqtcx{0"Rtxqp^ang|"rtq" gej {0

Frýdlant [3]< 340X04228."3" *U Y +0

Forcipomyia *u0|vvt0+ *radicola* Gf yctfu."3;46
Rcngctmvkem "ftwj"x{um{vwl|e|"ug"x"egn2"Gxtqr 0
Tglfleg]45<4:0XKK0/380XKK04227."3" *GV+0"

*Forcipomyia**u0|vvt0+ *sphagnophila* Mkgghgt."3;47" **CZ!**
Jqntcmvkem "ftwj"."fquwf"|p^ao "|r vk"uv^avw"Gxtqr {0"X{um{vwl|g"ug"x"qmqn|"o qm cf "c"tc-gnkp- 0"
Pc"À|g|g o|" T"lg|c|pc o gp^ap"rqrtx20
Lgfnqx "f n"RT]9<80/4:0XKK0/380XKK04227."7" .30/440KZ04227."3" *x-g"OV+0"

Forcipomyia *u0|vvt0+ *tenuis* *Ykppgtv|. "3:74+
Rcngctmvkem "ftwj"u"tq|-|" gp|"o"qf"Gxtqr {"rq"Fa"np "x ejqf."x" T"d flp 0
Bílý Potok [1a]<3;0XKK0/60KZ04227."4" *OV+0

*Forcipomyia***Lasiohelea*+ *velox* *Ykppgtv|. "3:74+
D flp "rcngctmvkem "ftwj."tq|-|" gp "x"egn2"Gxtqr 0"Uc o keg"x-gej|" ^auvwre "rqftqfw"*Lasiohelea*
luqw"jg o cvqh^a i p|" ucl|e|"mtgx"qdtcvnqxe 0"*F. velox* uclg"mtgx"pc"qddflkxgnp|e|ej" c" rnc|gej0
Ogcpft{Uo f2"RT]34<60/3;0X04227."3" .4;0XKK0/3;0XKK04227."3" .3" *x-g"OV+0"

*Forcipomyia***Lepidohelea*+*tibialis*"Tg o o."3;83
Rcngctmvkem "ftwj."tq|-|" gp "xg"uv gfp|"c"x ejqfp|"Gxtqr ."x"ugxgtp|"Chtkeg."x" T"|p^ao "
rqw|g|" gej" *V>>vjqx^ag"v"cn0"4226c+0"
Lgfnqx "f n"RT]9<3;0/520X04227."3" .80/4:0XKK04227."3" .4:0XKK0/430XKK04227."49" *x-g"OV+0

Forcipomyia **Synthyridomyia*+ *murina* *Ykppgtv|. "3:74+**B!**
Rq o tp "d flp "rcngctmvkem "ftwj"|p^ao "|kflp|"c"uv gfp|"Gxtqr {"Dn|"m2jq"x ejqfw"c"ugxgtp|"
Chtkm{0"X" T"fquwf"|p^ao "lgp|" "Oqtex {0"Rtxqp^ang|"rtq" gej {0"
Bílý Potok [1a]<3;0XKK0/60KZ04227."3" *OV+0"**Bukovec PR [2c]**<430XK04228."3" *UY+0"**Ogcpft{Uo f2"RT**
[12]<3;0/530X04227."3" *OV+0

Forcipomyia **Thyridomyia*+ *monilicornis* *Eqswnkngv."3;27+
Jqntcmvkem "ftwj"x{um{vwl|e|"ug"x" |>>p "lgjnk pcv ej"ngu ." |c|pc o gp^ap"x"p mqnkmc|g o |ej"
uv gfp|"Gxtqr {0
Tglfleg]45<520X0/380XK04227."4" *GV+0

*Forcipomyia***Trichohelea*+*eques*"*Lqjcppugp."3;2: +
Jqntcmvkem "ftwj"x{um{vwl|e|"ug"x"ngup|e|"qdncuvej."x" T"|p^ao "rqw|g|" gej0
Tc-gnkp-v "Lk|gtm{PRT]43<50/380XK04227."3" *OV+0

Neurohelea luteitarsis"Ycnvn."3:59"
Rcngctmvkem "ftwj."|p^ao "|g" v{ "uv^av "Gxtqr {"x" P o gemw"rqxcflqxcp " |c"x{ o gn 0"Lfg"
q"x |pc o p2"p^ang| {"egnqgxtqrum{"xgn o k"x|^aep2jq"ftwjw"rdnkmqxcp2"lkflcmq"rtxqp^ang| {"rtq"
T"x"rt^aek"V>>vjqx^a" ("Mpq|"*422: +0"Nctx^anp|"uv^afk"pg|p^ao^a)
Bílý Potok [1a]<50/380XK04227."7" *OV+0"50/380XK04227."4" .36" * [RV+=430XK04228."4" *UY+0"**Horní**
gtp^a"Uwfwpieg]6<450XK04228."3" *UY+0"**Horní Polubný [6]**<3;0XK04228."3" *UY+0

*Palpomyia distincta** Jcnkfc{.3:55+

Rcngctmvkem "ftwj."x" T"|p^ao"|"x^fegⁿqmcnk^w0"Uc o keg^luq^wkpugmvxqtp^f"rtgf^avq k0"Nctx{"fkl^f"
x"oqm cfgej."r k'd g|^fej^t{dp^flm "c^v p^f0"

Bílý Potok [1a]<380XK0/70XKK04227."3" .4" *OV+=430XK04228."5" .3" *UY+0**Bukovec PR [2a]**<450XK04227."3" *UY+0**Jqtp^f** gtp^a"Uvwf^fpeg^f]6<450XK04227."4" .4" *UY+0**Horní Polubný [6]**<3;0XK04228."3" *UY+0**Lgfnqx** "f n^{RT}]9<340XKK04227."4" *UY+0**Ogepft**{^Uo f²**RT**]34<70/4;0XKK04227."3" *OV+0**Plavy [18]**<450XK04228."4" *UY+0**Tc-gn^{pk}-v** "Lk|gtm{"**PRT**]43<70/4;0XKK04227."3" *OV+0**Tglf^{eg}**]45<50/380XK04227."3" * [RV+=380XK0/70XKK04227."3" .8" .70/4;0XKK04227."4" .380XKK0/30KZ04227."3" *x-g^{GV}+0

*Palpomyia t^{ex}rgu**Ogkigp."3:26+."u0"n0

Rcngctmvkem "ftwj."|p^ao"|"Gxtqr{."Cmxmc|w."F^anp²jq"x ejqfw" c"Mc^pa^{tum} ej"quvtqx ."d flp "ftwj0

Bílý Potok [1a]<430XK04228."7" .3" *UY+0**Bukovec PR [2a]**<450XK04227."4" *UY+=**[2c]**<430XK04228."4" *UY+0**Jqtp^f** gtp^a"Uvwf^fpeg^f]6<450XK04228."6" *UY+0**Lgfnqx** "f n^{RT}]9<3;0/520X04227."3" .380XK0/80XKK04227."3" *x-g^{OV}+0**Mq gpqx**];<3;0XK04228."4" *UY+0**Ogepft**{^Uo f²**RT**]34<530X0/80XKK04227."3" *OV+0**Plavy [18]**<450XK04228."4" *UY+0**Poustecká obora [19]**<440XK04228."3" *UY+0**Tc-gn^{pk}-v** "Lk|gtm{"**PRT**]43<4;0XKK0/390XKK04227."3" * [RV+0**Tglf^{eg}**]45<380XK0/80XKK04227."3" * [RV+=380XK0/70XKK04227."4" .4" .4" .70/4;0XKK04227."3" .9" .4;0XKK0/380XKK04227."4" .90/440KZ04227."3" *x-g^{GV}+0**U o tm**]46d<420XK04228."3" *UY+0

Palpomyia globulifera Tgo o."3:93"

CZ!

Rcngctmvkem "ftwj|p^ao"|"x^fejqfp^f"Gxtqr{^cF^anp²jq"x ejqfw0\c^fo"pgd{n^jn^a-gp"}|À|g o^f"
T.p^ang|{|"Lk|gtum ej"jq^t"luq^wrtxp^fo^krwdnk^mqxc^p o^kÁ^fcl^k|" T0

Lgfnqx "f n^{RT}]9<380XK0/80XKK04227."3" *OV+0**Plavy [18]**<450XK04228."3" .4" *UY+0**Tc-gn^{pk}-v** "Lk|gtm{"**PRT**]43<450XK04227."5" *UY+0

Palpomyia luteifemorata Gf yctfu."3:48

Rcngctmvkem "ftwj"x{um{vwl^fe^f"ug"xg^{uv}gf^p"Gxtqr ."x" T"|p^ao "rqw|g"|" ge^j."rqo tp "x|^aep 0

Tglf^{eg}]45<70/4;0XKK04227."3" .4;0XKK0/380XKK04227."3" *x-g^{GV}+0

Palpomyia melacheira Tgo o."3:98"

B!

Rcngctmvkem "ftwj"rqrucp"|"quvtqxc^Ucejcnkpw0^Rqfngⁱgpkv^ank^f"q^frx^f"^algf^{gp}uc o ge^{pc}ng|gp "pcⁿqmcnk^v"Tglf^{eg}"rnp "vq o wvq^fftwjw0^Xpg^fa^xp²"fqd "d{n"|"lk^{-v} p^{vcm}2^{pc}"Oqt^{cx} *V>vjqx^a"
gv^{cn}0"4226d+0^Pqx "ftwj"rtq" ge^j 0

Tglf^{eg}]45<70/4;0XKK04227."3" *GV+0

*Palpomyia nigripes**Ogkigp."3:52+

Rcngctmvkem "ftwj"ug"x|^aep l-^fo"x um{vg o"x" T0^Rqfqdp "lcmq^wquvcv^fej"ftwj "vtkdw"
Rcn^rq o {k^{pk} luq^wuc o keg^lkpugmvxqtp^fo^krtgf^avqt{0^Nctx{"fkl^f"x^vgmqwe^fej^ku^wqlcv ej"xq^fa^ej"
c^flkx^f"ug^fctcx "ftqdpq^wdgpvkemq^wh^cwppq^w0

Horní Polubný [6]<3;0XK04228."3" *UY+0**Plavy [18]**<450XK04228."3" *UY+0**Poustecká obora [19]**<440XK04228."6" *UY+0**Tc-gn^{pk}-v** "Lk|gtm{"**PRT**]43<450XK04227."3" *UY+0**Tc-gn^{pk}-v** "Lk|gt{"**PRT**]44<450X04227."3" .4" 450XK04227."3" .4" *x-g^UY+=320/480XK04225."3" *OV+0**Tglf^{eg}**]45<380XK0/70XKK04227."3" * [RV+=70/4;0XKK04227."3" *GV+0**X^aen^{cf}m^qxc**"Uvwf^apmc"]49<3;0XK04228."3" .5" *UY+0

*Palpomyia serripes**Ogkigp."3:3:+" **B!**

Rcngctmvkem "ftwj."x" T"|p^ao "rqw|g"|"Oqt^{cx}{0^Pqx "ftwj"rtq" ge^j{0

Bílý Potok [1a]< 430XK04228."3" *UY+0" **Jqtpf** gtp^aUvwfpleg]6< 450XK04228."3" *UY+0" **Ogcpft**{Uo f²RT"} [12]< 530X0/440XK04227."3" .440XK0/70XKK04227."4" *OV+0" **Minkovice [13]**< 440XK04228."3" *UY+0" **Tc-gnkp**-v " Lk|gt{"**PRT**"}44< 450XK04227."7" *UY+0" **Tglfleg**]45< 380XK0/80XKK04227."9" *GV+0

*Palpomyia spinipes**Rcp|gt."3:28+

CZ!

Rcngctmvkem "ftwj|p^ao |"cf{"gxtqrum ej"uv^av .x gyp "Unxqgpumc0"\ " T"pgd{"nfquwf"jn^a-gp0} Dkqnqikg"rqfqdp^a"lcmq"v"*P. distincta*.

Bílý Potok [1a]< 50/380XK04227."3" * [RV+0]"Lgfnqx "f n"RT"}9< 80/4:0XKK04227."3" .4" *OV+0" **Tc-gnkp**-v " Lk|gtm{"**PRT**"}43< 380XK0/70XKK04227."7" .32" .70/4:0XKK04227."3" *x-g"OV+=380XK0/70XKK04227."32" .;" .70/4:0XKK04227."3" .3" *x-g" [RV+0]"**Tglfleg**]45< 520X0/380XK04228."4" .380XK0/70XKK04227."4" .70/4:0XKK04227."3" *x-g"GV+0

*Pygobezzia albicornis**Ogkigp."3:3:+

Ftwj|p^ao |g|"rcfp|"k"x ejqfp|" cuv^k"rcngctmvkem²"qdcuvk."|lk-v p "vcm²"x" gej^aej" k"pc"Oqtex "c"xqmqnpfej"uv gfqgxtqrum ej"uv^avgej0"Uc o keg"luqw"kpugmvkxqtpf."hctx{"ug"x{x|gl|" xg"xqfp|"o"rtquv gf|"X"lk|gtum ej"jt^aej"}|lkuv p"lgp"pc"fxqw"nqmcnk^aej0

Tc-gnkp-v "Lk|gtm{"**PRT**"}43< 380XK0/70XKK04227."3" *OV+0" **Tglfleg**]45< 70/4:0XKK04227."3" *GV+0

*Schizohoelea leucopeza**Ogkigp."3:26+

Jqncctmvkem "ftwj|p^ao |"x|eg"nqmcnk"x" gej^aej"lk"pc"Oqtex 0"Nctx{"fkl|"|rtcxkfn"cx"ugok/ cmxcvkem²o"rtquv gf|"oqm cf "r k'd g|fej"t{dp|fm "crqf0

Bílý Potok [1a]< 50/380XK04227."4" .380XK0/70XKK04227."8" *x-g"OV+=50/380XK04227."3" * [RV+=430XK04228."6" *UY+0]"Lgfnqx "f n"RT"}9< 380XK0/80XKK04227."4" *OV+0" **Ogcpft**{Uo f²RT"}34< 440XK0/70XKK04227."5" *OV+0" **Poustecká obora [19]**< 440XK04228."6" *UY+0" **Tc-gnkp**-v "Lk|gtm{"**PRT**"}43< 70/4:0XKK04227."3" *RV+0" **Tglfleg**]45< 380XK0/80XKK04227."3" *OV+0

*Serromyia femorata**Ogkigp."3:26+

Jqncctmvkem "ftwj0"X"Gxtqr "pgl cuv lk"|c|pcogp^axcp "|a"uvwreg"tqfw."x" T"jn^a-gp "|x|eg" nqmcnk0"Xg"uv gfp|"c"lkfp|"Gxtqr "rzej^a|f"x v-kpc"p^ang| "|jqtum ej"cx"rqfjqtum ej"qdcuv0" Nctx{"ug"x{x|gl|"pgl cuv lk"x"oqm cfgej"cx"rqfo^a gp ej"r f^aej"r k'd g|fej"xqfp|ej"p^aftf0" Fqur nek"luqw"kpugmvkxqtpf"rtgf^avq k."uc o keg"r k"r^a gp|"rquwvwp "rqf|tcl|"k"ucog mc"*Gfyctfu" 3;48+. "cng"rqfng"p mvgt ej"rq|qtqx^ap"ug"o qjqw"flkxkv"l"pgmvctg0"|"mx v "tquvnp0

Bílý Potok [1a]< 380XK0/70XKK04227."3" *OV+0" **Bukovec PR [2c]**< 450XK04227."4" .430XK04228."3" *x-g"UY+0" **Lgfnqx "f n"RT"}9< 80/4:0XKK04227."4" *OV+0" **Mq gpqx**];< 3;0XK04228."3" *UY+0" **Mníšek [14]**< 4;0X04227."3" *UY+0" **Poustecká obora [19]**< 440XK04228."3" *UY+0" **Tc-gnkp**-v "Lk|gtm{"**PRT**"}21< 380XK0/70XKK04227."5" .;" 70/4:0XKK04227."3" *x-g"OV+=380XK0/70XKK04228."4" * [RV+=450XK04227."3;" *UY+0" **Tglfleg**]45< 380XK0/80XKK04227."3" *UY+0**

*Stilobezzia gracilis**Jcnkfc{."3:55+

Rcngctmvkem "ftwj|p^ao |"Gxtqr{"x" T"fquwf"|lk-v p"lgp"pc"Oqtex 0" **B!**

Bílý Potok [1a]< 4;0XKK0/3;0XKK04227."3" *OV+0" **Jqtpf** gtp^aUvwfpleg]6< 450XK04228."4" *UY+0" **Meandry Uo f²RT**]34< 530X0/440XK04227."3" .4;0XKK0/3;0XKK04227."3" *x-g"OV+0" **Tglfleg**]45< 380XK0/80XKK04227."5" .;" 39" .80/4:0XKK04227."33" .82" .4:0XKK0/380XKK04227."47" .90/440K04227."3" *x-g"GV+0

*Stilobezzia ochracea**Ykppgtv|."3:74+

B!

Rcngctmvkem "ftwj."x" T"fquwf"|p^ao "lgp"|"Oqtex{0

Jqtpf gtp^aUvwfpleg]6< 450XK04228."3" *UY+0" **Ogcpft**{Uo f²RT"}34< 450XK04228."3" .3" .440XK0/70XKK04227."3" .3" *x-g"OV+0

*Stilobezzia txcxktqwtku**Ykppgtv|.3:74+

Rcngctmvkem "ftwj|p^ao |g|uv gfp|c|lkflp|Gxtqr{.|"arcfp|Ukdk g."x" T'd flp 0

Bílý Potok [1a]< 430XK04228."3" .4" *UY+0Minkovice [13]< 440XK04228."3" *UY+0TMrk am]47_<420XK04227."3" *UY+0

\jqfpgqgp|x ungf

R gfnqflgp^art^aeg^utpwlg^x ungf^m{fgygtokpceg^fftwj " gngfkEgctvqrqi qpkfcg^x{dtepej |g^x|qtm "j o { |w^ud^ftcp ej "R0|Xqpk mqw^cL0|Rtgkungto^xLk|gtum ej "jqt^aej^cpc^{Ht} fncpvumw^xngvgej²4225642290|Ocvgtk^an^rqej^a|^f|49ⁿqmcnk^vc^rqfng^ffcv^ud t "c^r|r uqd "qfej{v "lg^tq|f ngp^fq³;3^x|qtm 0^{Wt} gpq^d{nq⁹:ftwj *Lk|gtum²jqt{"o⁹5."Ht fncpvumq^o53+."lg^kejfl^logpp^r g^jngf^r.rq v{^mwu "lg^fpqmkx^{ej}r^qjncx^f."fcv^ud t "c^r|r uqd{qfej{vw^ug^wxg^x-g^wxgfgp²o^ug|pc^ow0^vqjvq^rq vw^uftwj "d{nq⁹7^{wt} gpq^fq^{At}xp^fftwj^wc^xg^vgej^r "rcfgej^d{nc^oqflp^afgygtokpceg^lgp^fq^{At}xp^fumwrkp^fftwj **Culicoides*^{chh0} *pallidicornis*+ nebo f^qAtx^p "tq^fw^{*Alluaudomyia}ur^oc^{Atrichopogon}ur.+0^rrtceqx^apc^d{nq^rgu":52lg^fkpe ."xgⁿkeg^xtc|p^rg^xclqxcn{uc^okeg^{*x}eg^{pg}fl⁹22lg^fkpe +0^v"ogvq^fqfej{vw^ug^{pg}ln²rg^{qu}x f/^{kn}{Ocnckug^jrcu^kc^uo^map⁰Quop^aev^{|g}|lk-v^pej^{ftwj} "lg^jqnctmvmkem^{ej}.|tq|-^fgp^{ej} "ug^o2^{pc}pc^ugxgtw^cx^jqtmej^qdn^cuvgej^{Gwtcukg}c^Cogtkm^{|g}Fxc^{|g}|cej^fegp^{ej}ftwj "gl^x{um{vw^lfl^kx^{pg}qvtqr^{kem}2^qdn^cuvk^{*Atrichopogon}oedemerarum, *Forcipomyia glauca*+0^dxcl^fe^fej⁷:ftwj "lg^rrcngctmvkem^{ej}u^vflk-v^o|tq|-^fgp^xGxtqr 0^Pmvgt²|"pkej^d{n^f|lk-v^p|"vcm²x^{Cukk}.

\hcw^{pk}uk^{em}2^jq^jng^fkumc^{lg}x |pc^op^ang[|]fgx^{vk}ftwj "pqx^{ej}rtq^{hcw}pw^{gum}2^{tgr}wd/^{nkm}{<*Atrichopogon fuscus*, C0^txgqmwu.*Brachypogon incompletus*.*Dasyhelea lutea*.*Forcipomyia lugubris*.*F. sphagnophila*.*Neurohelea luteitarsis*.*Palpomyia globulifera*^c*P. spinipes*.|"pke^jfl^fxc^lkl^fdⁿ{rwd^{nk}mqx^ap{^{*V}>vj^{qx}"(Mp^q|4228.422: +0^{Qu}o^fcn^fej^{ftwj} "lg^pqx^{ej}rtq^{hcw}pw^{gej}<*Dasyhelea palliventris*.*D. septuosa*.*Forcipomyia nigrans*.*F. murina*.*Palpomyia melacheira*.*P. serripes*.*Stilobezzia gracilis*^c*S. ochracea*0^Pang[|]ftwj^w*Neurohelea luteitarsis*^{lg}xgn^ok^fng^{fl}kv["]|jng^fkumc^{dk}o^qpkv^{tk}pi^wc^qej^{tcp}{^rftq^f{="lfg^qr^av^pang[|]vqjvq^vxgn^ok^xap²j^qftwj^wx^{Gxtqr}"c^llg^jq^xum{v^ux^fq["]|cej^qx^{cn}qu^{vk}|mqw^ocp²j^qÀ|g^ofl⁰ftwj^{Ceratopogon lacteipennis}"lg[|]c^lgp^xgtxgp²o^ug|pc^ow^qj^tqflgp^{ej}ftwj "T^xmc^vgi^qtkk[|]tcp^kvg^{np}ej^{*XW}+0^Fcn^fp^ang[|]{^{*f}xc^fqu^wf^{pg}|p³o²ftwj{|lg^kej^{fl}r^qrku^{lg}x^rrt^{ex}+^kx^{-g}wxgfgp²rtxqp^{ang}|{vq^vj^qf^pqegp^llg^{-v}"r^qf^rqt^wl⁰Pc^fftwj²uvt^{cp}"cfc^dflp^{ej}ftwj **Culicoides obsoletus*.*Forcipomyia bipunctata*.*F. brevipennis*.*F. nigra*cvf0^d{nc[|]c|pc^ogp^apc^rq^w|g^lq^lg^fkp^{ng}c^xr^qo^{tp}"ocn²o^rq^{vw}lg^fkpe 0^Pgl^rq^gv^pl^fo^{ftwj}g^odⁿ*Stilobezzia gracilis**344lg^fkpe +.p^aung^fqx^ap^{ftwj}g^o*Atrichopogon lucorum**327lg^fkpe +0^M|cl^fo^{cx}oⁿqmcnk^va^o"|jng^fkumc^{hcw}p{rc^mq^oate^{rcv}fl^Dfl^Rq^vqm^{]3}..RT^Og^{cp}ft{U^of²]34_.PRT^{Tc}-gn^kpk^{-v}Lk|gtm{"43_c^Tgl^fk^{eg}]45_0

Rqf mxq^ap⁰R gfnqflgp^auw^wfk^gd^{nc}|rtceqx^apc^ur^qf^rqt^wO^{cu}ct{mqx{^wpkxgt[|]kv["]x^Dtp .x |mw^op |^ao^t O^UO²2438446380

NKVGTCVWTC

DQTMGPV^{C0}4228<*World species of biting midges (Diptera, Ceratopogonidae)*.^{Qp}/nkpg^xgtukq^pcv^jw^rd^ly^y0^{lp}j^uw^kw^el^gf^wl^{eg}g^HN[[]VTGGI^Egctvqrqi qpkfcgE^{cv}cnqⁱw^gl^rfh^D|UVTCM^{R0}I⁰(["]Y^KT^VJ["]Y⁰Y[<]3;9:<*The North American species of Forcipomyia, subgenus Euprojoannisia (Diptera, Ceratopogonidae)*0^Wpkv^gf^Uvcy^uF^gr^ct^vo^{gp}q^hCⁱtk^wmw^tg^Vge^jpk^{ec}n^Dw^{ng}kp³⁷;3."73"r^rl^{GF}Y^{CT}F^UH⁰Y⁰3;48<Qp^vj^gD^{tk}v^kj["]dk^vpi["]ok^fi^gu["]F^krv^gtc^Egctvqrqi qpkfcg+0^{Trans. Ent. Soc. Lond.}0.96<596/64:0

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&'TQ\MQ'MP'T0'0*'gfu<+Fkrvgtqni'k'c'Dajg o qunqxcce.'Xqnl'0'Folia Fac. Sci. Nat. Univ. Masaryk. Brun.,
Biol.';7<436/4370
MPQ\l0.'QNGLP~ GM\l0' (" I GNDK' K0'4226<Rcmq o 'tek'*Fkrvgtc.'Egtcvqrqi qpkfcg+'pc'|tw-gp2'um'feg'mq o w/
p'np'f'j'q'q'frcfw'm'x' d x'J't'f'gm'w' gum ej'Dwf lqxk'0'Dk'kpi' o'k'f'ig'u'*Fkrvgtc.'Egtcvqrqi qpkfcg+'kp'v'j'g'hcvg'
f'q o gwke'tghwug'f'w o'r'm'x' d x'J't'f'gm'pgct' gum2'Dwf lqxk'eg=0'Udq0'Lk'j'g'gul'0'w'0'x' gul'Dwf lqxk'e'j.'R' f'0'
X'f'f.'66<:5:8*'kp'E|gej.'Gpinkuj'uwo o0+0
MPQ\l0' ("TCVCLUM' H0'3;9<C'eqpntdvwkpp'v'j'g'mpqyngf i'g'qh'v'j'g'E|gej'qunqxcmkcp'ur'geku'qh'Chnncwcf'q o {k'
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;6<8:0
QTU\ f I J'K0'3;20'Egtcvqrqi qpkfcg.'r'r0'42/3660'kp<E J X f NC'00*'g'f0<+Mtgxuc'f'ef' o qwej'f'c'w g ek'0'Fkrvgtc'0'
Hcwp'c' UUT.'ux0'440'Cecf'g okc.'Rtcjc.'75:'r'r*'kp'E|gej.'Gpinkuj'uwo o0+0
QTU\ f I J'K0' ("E J CNWRUM' L0'3;9<Egtcvqrqi qpkfcg'0'kp<L'Gf'GM\l0'g'f0<+G'pw o gtcvk'q'p'ugevqt'w o'Dajg o qunq/
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("MQTR'M'0'0*'g'fu<+ gtxsp'ug'p'c o'q'j'q'f'g'p' ej'f'tw'j' gum2'tgrwdknu'0'Dg'ldtcw'f'0' Red list of threa-
tened species in the Czech Republic. Invertebrates\0'Ci'gpw'tc'q'ej'j'c'p'f'r' f'q'f'c'c'mtlc'k'p' T.'Rtcjc.'982'r'r'
*'kp'E|gej'cp'f'Gpinkuj'+0
RTWPGT'N0' ("O'MC'R0'3;8<Ug'p'c o'qde'f'c'lg'k'ej' 'u'v'f'x' gum2'tgrwdkne'g'u' f'um'{"ocr'q'x' ej' r'q'f'rt'q'u'f'q'x2'
ocr'q'x'p'f'hcw'p'{"Nku'q'h'ug'vng o g'p'w'kp'v'j'g'E|gej'Tgrwdkne'y'k'v'c'uu'q'ek'v'g'f' o cr'L'gn'f'eq'f'g'u'q'ht'hcw'p'k'vw'k' i'k'f'
ocr'rk'p' i'u'ug' o'0'Klapalekiana.'54*Uw'r'rn0<3/337*'kp'E|gej.'Gpinkuj'uwo o0+0
TGO O' J0'3;96<C'u'f'ug' o c'vke't'g'x'k'y'q'h'ur'geku'q'h'v'j'g' i'gpwu'Egtcvqrqi'q'p'0'gki'gp'*Fkrvgtc='htq o'WUUT'0'Tartu
Riikliku Ulukooli Toimetsid.'549<45/7:0
U\CF\kGYUMK'T0'3;8<T'g'f'guet'kr'vw'k'p'cp'f'p'q'v'u'q'p' uq o'g'Egtcvqrqi qpkfcg'*Fkrvgtc=0'Polskie Pismo Entomo-
logiczne.'78<5/3250
U\CF\kGYUMK'T0' ("DQTMGP'V'c0'4226<Egtcvqrqi qpkfcg'0'kp<LQP I' J0'FG*'g'f0<+Fauna Europea: Diptera
Nematocera. Xgtuk'q'3040'Cx'c'k'nc'dng'q'p'nk'p'g'cv'j'w'r'cl'y' y'lh'c'w'p'c'g'w'lt'q' i'
U\CF\kGYUMK'T0' ("FQOKPKCM'R0'4228<P'gy'u'p'p'q'p' o'u'q'h'G'w't'q'g'c'p'Egtcvqrqi qpkfcg'*Fkrvgtc=0'Annales
Zoologici.'78<35;/3680
U\CF\kGYUMK'T0.'MCE\QTQYUMC'G0' ("MT\l YK'UMK'L0'3;6<V'j'g'rt'g'f'c'g'q'w' o'k'f'ig'u'q'h'v'j'g'uw'd'g'p'w'
ku'j'gng'c'q'h'Dtce'j'r'q'i'q'p'R'q'nc'p'f'*Fkrvgtc.'Egtcvqrqi qpkfcg=0'Acta Zoolog. Cracov.'59<3/540
U\CF\kGYUMK'T0.'MCE\QTQYUMC'G0' ("MT\l YK'UMK'L0'3;8<T'g'f'guet'kr'vw'k'q'h'uq o'g'G'w't'q'g'c'p'ur'geku'q'h'
C'v'k'ej'q'r'q'i'q'p'*Fkrvgtc.'Egtcvqrqi qpkfcg=0'Polskie Pismo Entomologiczne.'87<4;9/53:0
V~VJQX'f'c0'422:<K'htu'v'tgeq't'f'q'h'v'j'g'ge'v'q'r'c't'c'v'k'k'e'd'k'k'p'i' o'k'f'ig.'C'v't'k'ej'q'r'q'i'q'p'*O'gn'q'j'gng'c+'q'g'f'g' o'g't'c't'w' o'U'v'q't'0'
htq o'v'j'g'P'g'q'v't'q'r'k'ec'n't'g'ik'ap'*Fkrvgtc<Egtcvqrqi qpkfcg=0'Zootaxa.'3968<87/890
V~VJQX'f'c0.'DCTV'f'M'0'0' ("MPQ\l0'4226<Egtcvqrqi qpkfcg'q'h'v'j'g'D'f'nc'k'p'c'p'f'F'w'ej'q'x'G'p'k't'q'p'0'kp<MWD'M'
'0'0' ("DCTV'f'M'0'0*'g'fu<+Fkrvgtqni'k'c'Dajg o qunqxcce.'Xqnl'330'Folia Fac. Sci. Nat. Univ. Masaryk. Brun.,
Biol.'32;<527/5360
V~VJQX'f'c0.'DCTV'f'M'0'0' ("MPQ\l0'4226<Egtcvqrqi qpkfcg'q'h'U'q'w'j'g't'p'Oqt'c'x'k'PR'R'q'f'f'f'0'kp<DKVW'0'M'
R0'g'f0<+Fkrvgtqni'k'c'Dajg o qunqxcce.'Xqnl'340'Acta Facultatis Ecologiae.'x'qngp.'34.'Uw'r'rn0'3<365/36:0
V~VJQX'f'c0' ("MPQ\l0'4228<T'g'x'k'ug'f'ej'g'em'nku'v'q'h'd'k'k'p'i' o'k'f'ig'u'*Fkrvgtc.'Egtcvqrqi qpkfcg+'q'h'v'j'g'E|gej'
T'gr'wd'k'c'cp'f'Unq'xc'k'c'0'Studia Dipterologica.'J'cmg.'35*3<325/3360
V~VJQX'f'c0' ("MPQ\l0'422:<T'g'f'g'et'kr'vw'k'q'p'q'h'P'g'w't'q'j'gng'c'w'ng'v'c't'uk'u'*Fkrvgtc.'Egtcvqrqi qpkfcg+'htq o'v'j'g'E|gej'
T'gr'wd'k'c'0'Cpp'cng'u'f'g'hc'U'q'ek'ev2'G'p'v'q o'q'q'ik's'w'g'f'g'hc'Htc'peg'*k'p'rt'g'u'w'0
V~VJQX'f'c0.'MPQ\l0.'QTU\ f I J'K0' ("DCTV'f'M'0'0'4227<I'gpwu'Ewnkeqkfgu'*Fkrvgtc.'Egtcvqrqi qpkfcg+'
eq'm'g'ev'g'f'd'{"p'p'nik'j'v'v't'c'r'u'k'p'U'q'w'j'Oqt'c'x'k'0'Studia Dipterologica.'J'cmg.'34<6;/770
XQPK' MC'R0'422:<G'p'v'q o'q'q'ik'em'x' |m'w'0'Lk|g'tum' ej'j'q't'c'Ht'f'nc'p'um'c'x'ng'v'g'j'4222/42290'G'p'v'q o'q'q'ik'c'cn'uw't'x'g'f'
q'h'v'j'g'Lk|g'tum2'j'q't'{"O'vu'cp'f'Ht'f'nc'p'v't'g'ik'q'p'k'4222/4229+U'd'q't'p'0'U'g'x'g't'q' gul'0'w'0'x' R' f'0'X'f'f.'N'k'd'g't'g'e.'48<
5/34*'kp'E|gej.'Gpinkuj'uwo o0+0
XQPK' MC'R0' ("X'K'f'M'f'M'0'422:<'a'm'c'f'p'f'ej'c't'c'm'v'g't'k'v'k'm'c'|m'q'w' o'c'p2'j'q'À|g o'f'f'Lk|g'tum' ej'j'q't'c'Ht'f'nc'p'um'c'0'
*I'g'p't'c'n'ej'c't'c'v'g't'k'v'k'ue'u'q'h'v'j'g'uw'f'f'c't'g'c'k'p'v'j'g'Lk|g'tum2'j'q't'{"O'vu'cp'f'Ht'f'nc'p'v't'g'ik'q'p'0'U'd'q't'p'0'U'g'x'g't'q' gul'
0'w'0'x' R' f'0'X'f'f.'N'k'd'g't'g'e.'48<35/55*'kp'E|gej.'Gpinkuj'uwo o0+0

UWO OCT [

Vjg"uwf{"ku"dcugf"qp"vjg"o cvgtkcn"qh"dkvpi"o kfi gu"eqnngvgf"kp"vjg"Lk|gtum²"jqt{"Ovu"cpf" Ht fncpv"tgikqp"fwtkpi"4226642290"Vjg"o cvgtkcn"eqo gu"htqo"49"nqecnkvkgu"cpf"kv"ku"fkxkfgf" kpvq";3"uc o rngu"ceeqtfkpi"vq"vjg"eqnngvki"fcvg"cpf"o gvjqf"wugf0"Chvqigvjt"9:"urgekgu" qh"dkvpi"o kfi gu"ygtg"kfgpvkgf"kp"vjg"o cvgtkcn"*Lk|gtum²"jqt{"Ovu"6"95"urgekgu."Ht fncpv" tgi kqp"6"53"urgekgu+0"htqo"vjg"|qqigqi tcrjkecn"rqkpv"qh"xkgy".Rcncgctevke"urgekgu"rtgxckngf" *7:"ur r0+."hqnnqygf"d{"J qnctevke"*3:"ur r0+"cpf"Pgqvtqrkecn"urgekgu"*4"ur r0+0"Ocnckug"vtcru" uggogf"vq"dg"vjg"o quv"ghhgevkg"eqnngvki"o gvjqf."hqnnqygf"d{"uyggrkpi0"

Pkpg"urgekgu"ctg"tgrqtvgf"htqo"vjg"Elgej"Trgrwdnke"hqt"vjg"Łtuv"vkog<"Atrichopogon fuscus, C0"Łcxgqmwu."Brachypogon incompletus. Dasyhelea lutea. Forcipomyia lugubris." F. sphagnophila. Neurohelea luteitarsis. Palpomyia globulifera"cpf"P. spinipes."vyq"qh"yjkj" jcf"dggp"cntgcf{"rwdnkjgf"gnugy jgtg"*V»vjqx" ("Mpq|"4228."422: +0"Gkijv"qvjgt"urgekgu"ctg" tgrqtvgf"htqo"vjg"jkvqtkecn"vgttkvt{"qh"Dqjgokc"ht"vjg"Łtuv"vkog<"Dasyhelea pallidiventris." D. septuosa."Forcipomyia nigrans."F. murina."Palpomyia melacheira."P. serripes."Stilobezzia gracilis"cpf"S. ochracea0" Hkpfkpi"qh"Neurohelea luteitarsis,"tgrtgugpvkpi"vjg"Łhvj"tgeqtf"qh" vjg"urgekgu"kp"Gwtqrg."ku"xgt{"kpvgtgukpi0"Vjg"qvjgt"kpvtgukpi"Łpfkpiu"*fguetrvkqp"qh"vyq" pgy"urgekgu+"cpf"hcwu"o gpvkqpgf"cdqyg"uwi iguv"wpkswpgguu"cpf"ko rqtvcpeg"qh"vjg"uwf{" ctgc0"Qp"vjg"qvjgt"jcpf."o cp{"qh"vjg"eqo o qp"urgekgu"*Culicoides obsoletus."Forcipomyia bipunctata."F. brevipennis."F. nigra"ge0+ ygtg"tgeqtfgf"qp{"kp"cnqy"pwodgt"qh"urgekogpu0" Vjg"o quv"cdwpcfcpv"urgekgu"ycu"Stilobezzia gracilis"*344"kp f0+"hqnnqygf"d{"Atrichopogon lucorum"*327"kp f0+0"Eqpegtkpi"vjg"dkvpi"o kfi g"hcwpc."Dfn"Rqvqm"]3_."Ogc pft{"Uo f²"PT"]34_."Tc-gnkpv-Lk|gtm{"PPT"]43_ "cpf" Tglfkeg"]45_ "ctg"vjg"o quv"ko rqtvcpv"ukvgu0