

Ovádovítí (Diptera: Tabanidae) Jizerských hor a Frýdlantska

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

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

³⁺Gpvq o qnqikem²qff ngp¶"P^atqfp¶jq"o w|gc."Mwptckveg"3."E \ "ó"36:"22"Rtcjc"6-
g/o ckn<"lcpalg|gmB p o le|

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

⁵⁺Xnpce um^a"8;4."E \ "ó"682"28"Nkdgtge"8-"g/o ckn<"rtgkung\tdnd B ug|pc o le|

Abstract. Cmvqigvjgt"7"igpctc"cpf"48"urkegu"qh"jqtug"tkgu"ygtg"tgeqtfgf"cv"74"nqecnkvgu"*kpen"35"cfkvpkpcn"jcdkvcu+¶p"vjg"lk|gtum²jq{ "Ovu"cpf"¶p"vjg"cf"lcegpv"ht fncpv"tgikqp"¶Fkuvtkdwwkp.geqni kecn"cpf"dkppq o kecn"curgevu"ctg"o gpvkqpgf"¶p"gecj"urkegu"0

Key words: Fkrvgtc."Vcdepkfcg."hcwpuvkeu."fkuvtkdwwkp."Lk|gtum²jq{ "Ovu."Ht fncpv"tgikqp."E|gej "Tgrwdnke."Dqjg o kc

—XQF

X"rcngctmvkem²qdnucvk"ug"x{um{vwlg"763"ftwj " gngfk"Vcdepkfcg."| "pkejfl"d{nq"fquwf"x" gum²tgrwdnkeg"|lk-v pq"76"ftwj *x" gej^aej"6;."pc"Oqtex "6:+.xk|"Ejx^anc"3;::."4228+0" OqpqitcLg"rqmt xcl¶e¶gxtqrumqw"hcwpuvqx^afqxkv ej"u"wt qxce¶ok"mn¶ k"pc"ko^aic"wxg glpknk" Ejx^anc"gv"cnl"3;94+"c"u"v gfqgxtqrumqw"hcwpuv"Ejx^anc"3;:2+0"Fcñ-¶ rt^aeg"qducjw¶e¶hcw/ pkuvkem²|rtceqx^ap¶l¶gfppvnx ej"x{-¶ej"vzqpp ." cuvq"pgÁrnp²"mn¶ g"pc"tqf{"c"ftwj{"ko^ai" pgdq"x xqlqx ej"uv^afk¶rwdnkmqxcnk"Ejx^anc" ("Lgflgm"3;8;:3;:9+."Lgflgm"3;92."3;93."3;98." 3;99c/h."3;:2c.d."3;:..:3;:4."3;:;7."3;:;+."Lgflgm" ("Dctv^am"4222."4227+."Lgflgm"gv"cnl"4227+." Oqwejc"3;98+." Oqwejc" ("Ejx^anc"3;77."3;78c/f."3;7;c.d."3;7;c/f."3;83."3;86."3;89." 3;8:."3;8;+"c"Qnuwhlgx"gv"cnl"3;86."3;89+0"Q"fn ¶ o crqx^ap¶qx^af " gum²tgrwdnk{"c"Unq/ xgpumc"ug"x"o kpwnquv"rqmwuknk"Lgflmqx^a3;96+"c"Lgflgm" ("Lgflmqx^a3;9: +0"Rtq|"qqigqitcLem² c"gmqqikem²jqf¶p¶qegp¶l¶gfppvnx ej"ftwj "d{nq"pg|d{vp²x{wfl¶v"rtq"vwwq"uvwfk"¶fcñ-¶ej"rtce¶ o qpqitcLem²jq"ejctcmvgtw<Cpftgxc"3;:2+."Ngengtes"3;82."3;89+"c"Qnuwhlgx"3;99+0"—fclg" q"tq|-¶ gp¶ ftwj "d{n{ "cmvwnk|qx^ap{" r qfng"Hcwpc"Gwtqrgc"*Ejx^anc"4229+0" Pq o gpmncvwtc" c"u{uvg o cvkem² c|gp¶ftwj "|qjngf wlg"lkl|"o ¶p p "rcngctmvkem "mvevncq i"*Ejx^anc"3;: +0"

—fclg"q"qx^afgej"|Lk|gtum ej"jqt" c"Ht fncpvumc" r gf"|cj^algp¶o"vqjvqv"x |mw o w"luqw" xgn ok"urqt²0"Xko o gt"3;35+" rwdnkmqxcn|"Vcpxcnfw" c" P^axctqxc"ftwj" *Tabanus autumnalis* Nkppcgwu."3983" c"Lgflmqx^a3;96+"|ctgikvtxcnc"|r ¶t uvm "ud¶tgm" P^atqfp¶jq"o w|gc"ftwj {" *Tabanus bovinus* Nkppcgwu."397:"*Rgmnq+." *Hybomitra arpadii* *U|kn^af."3;45+." *H. auripila* *Ogki gp."3:42+." *Heptatoma pellucens* *Hcdtkekwu."3998+" *Haematopota pluvialis* *Nkppcgwu." 397:+"*x-g" Jqtp¶Rqnpwdp +0"

Qx^afk"luqw"qdgep "hcmvncvxp¶ok"gmvqrctc|kvkem ok"fxqwm ¶fn ok"|glo²pc"pc"vgrnq/ mtgxp ej"qdtcvnqxe¶ej"0" Jcg o cvqh^a ip¶uc o keg"ug"vcm²qdfqdp "lcmq"mtgx"pgucl¶e¶uc o ek" cuvq"

r kmt owlpgmvtcg o mxgvqwefej tqvunkp c o f qwrqtcp p ej k gtuvx rqtcfllp ej lgjnk pcp 0
 \ gl o 2pcuc o ek .cngvcm 2uc o keg .ucl f x vgrn 2 o ngvp f o qdfqd f o l o xqfw | c ngw | xqfp f j nc fkp f
 t { dp f m .lg | gt .v p f c mcnw f l 0 Xcl f mc luqw mnc f gpc x f qd g w t x p c p e j x t u v g x p c v e j u p - m a e j
 x v - k p q w p c u r q f p f u v t c p w n k u v | x q f { x { p f x c l e f e j t q v u n k p c f g x k p 0 O g v c r p g w u v k e m 2 n c t x {
 luqw cmxcvkem 2 .ug o kcmxcvkem 2 pgdq k g f c L e m 2 c x v - k p q w f t c x 2 0 N c t x c r q u n g f p f j q k p u v c t w
 o k i t w l g f q u w - f j q o f u v c . m f g u g m w m m f * r w r c q d v g e v c + 0 N c t x { u g x u m { v w l f x v - k p q w x n g u p f e j
 v p f e j c d c f k p a e j . x n k v q t a n w t { d p f m .lg | gt c w o n e j x q f p e j p a f t f l x x r t u c e f e j x u { r g m
 r q x t e j q x e j f q n . x d w n v e j t c - g n k p k - c x f t p g e j x n j m e j n w m . x o g c p f t g e j r q v q m . f g m .
 g m . x g u v w f a p m a e j c r t c o g p k - f e j 0 N c t x { p m v g t e j f t w j l u q w c n g | l k u v k v g n p 2 k f c n g m q q f x q f f
 x u w e j 2 | g o k . x g u v g r p f e j c f m q m p e g k r q w - v p f e j q d n c u v e j 0 R q f t q d p l - f l a f c l g q d k n q i k k .
 d k q p q o k k c g m q n q i k k x k | E j x a n c (L g f l g m * 3 ; ; 9 + 0

OGVQFKMC"O"CVGTKfN

Ocvgtk n d { n f u m p x n g v g e j 4 2 2 2 6 4 2 2 9 t | p o k o g v q f c o k u d t w p c 7 4 n q m c n v a e j * c p c 3 5 f n f e j d k v q r g e j + 0
 R q f t q d p l - f x o g l g p f c e j c t c m v g t k u m c u n g f q x c p 2 j q a l g o f x k | X q p k m c (X k - a m * 4 2 2 : + 0 P g l c u v l k r q w f l x c p q w
 g z v g p l f x p f o g v q f q w u d t w * k o a i c + d { n q f e j { v p c r q q v g x g p 2 o v g t 2 p p f o c w q o q d k n w . r g t w - q x c p m t a v m q f q d u o { m
 p c x g i g v c e k * d g j { v q m c x q f p f e j p a f t f l . o q m c f { . t c - g n k p k - v . r t c o g p k - v . r t u c m f c r q f o . x k l o g p k
 p c u x w q l P e u d f t c p o c v g t k n d { n w u o t e q x a p x g z j c w u v q t w u k t p o v g j t g o . v t c p r q t v x a p c f g r a p q x a p x d w p k k v 2
 x c v p g d q x f g x p e j l g o p e j j q d n p e j 0 O g l k p g p l f x p f o g v q f { u d t w r c v k n c r n k m c e g r n c u v x e j f l n w e j o k u g m .
 n | m w o q x a f r t q d j c n k | c r q w f l k f O c n c k u j j a . g o g t i g p v p f e j c p a t c l q x e j r c u v f R q f t q d p R v q f o g v q f { r r k u w l g
 X q p k m c * 4 2 2 : + 0 X v 2 v r t e k l g x { w f l k q u d t x - g e j v f u r q n c w c w q t c f a n g H M t c o r n c * u d t p c u x w q + 0 R w f l k 2 | m t c m f
 o g v q f u d t w x r g j n g f w n q m c n v E H V o e q o d k p g f k i j v t c r u o u v t q m g v t c r u * p a t c l q x 2 r c u k . G V o 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 k . O V o O c n c k u g v t c r u * O c n c k u g j q r c u k . [R V o g m m y r e p v t c r u * f l n w 2 o k u m { + . x - g L 0 R t g k u n g t
 (R 0 X q p k m c n i v 0 : N o n k i j v * u d t p c u x w n q . H M t c o r n n i v 0 : U Y o u y g g r k p i * u o m a p f x g i g v c e g c l p f k x f w a n p f q e j { v
 f q g p v q o q n q i k e m 2 u f v + 0

X - g e j p l p e u d f t c p 2 g z g o r a n g * 3 3 7 ; ; g z o x { r t g r c t q x c p 2 p c u w e j q l u q w f g r q p q x c p 2 a u v g p x g u d f t e g g p v q /
 o q n q i k e m 2 j q q f f n g p f P a t q f p f j q o w l g c x R t c l g c a u v g p x g u d f t e g U x g t q g u m 2 j q o w l g c x N k d g t e k 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 r t x p f c w q t r t a e g . r q r t q w r k f g v g t o k p c e k d n c k t q u j n a | a m n c f p u d f t m c g n g f k V e d c p k f c g
 P a t q f p f j q o w l g c l

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

- f c l g m n q m c n v a o l u q w x g f g p { x p a u n g f w l f e o r q c f k f l u n c p a l g x n q m c n v { * q d g e . a u w q d e g . e j t a p p 2 a l g /
 o f . x t e j q n c r q f o t . h c w p k u v 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 . f c v o * i p v g t x c n t
 u d t w . | m t c v m o g v q f { u d t w c w u o { m l o 2 p q u d t c v g n 0 P m v g t 2 n q m c n v { l u q w t q l f n g p { p c x f e g d k v q r . m v g t 2 l u q w
 q l p c g p { r f u o g p { 0 F c n - r q w f l k 2 | m t c v m { < P R T o p a t q f p f r f t q f p f t g l g t x c e g . R T o r f t q f p f t g l g t x c e g . R R o r f t q f p f
 r c o a v m c l

- [1] Arnoltice *qdge Dwnqxmct. 7278. 522. o. 4: 0XK04225. U Y. R0 Xqpk mc ni v 0 330XKK04225. U Y. L0 Rtgkngt ni v 0
- [2] Dgf kejxqxqfp p a f t f l . 7378. 972. o. 3: 0XK04224. U Y. R0 Xqpk mc ni v 0 [3] Bilý Potok. 7379. [3a] o q m c f c x n j m 2 n q w m { p c f m q w r e n v o l k p f q f q d e g . 632. o. 340XKK04223. U Y. L0 Rtgkngt ni v 0 [3b] c t { d p f m { u x l q f f l g n 0 u v c p k e g . 672. o. 50XK04227. U Y. L0 Lgflgm ni v 0 50XK0/60KZ04227. O V 2 430XK04228. U Y. L0 Rtgkngt ni v 0 [3c] c r q v q m X g n m T d f q f c u g x g t p q f q d e g . 682. o. 340XKK04223. U Y. L0 Rtgkngt (R 0 X q p k m c n i v 0 : [3 d] c D a t v n q x c d w f c . A f q n J a l g p 2 j q r q v q m c u o t V k - k p c . 772/822. o. 430XK04228. U Y. L0 Lgflgm ni v 0 [4] Bukovec PR. 737. .; 22. o. R t c n q w m c r t c o g p k - v . j q t u m 2 n q w m { + . 350XKK04223. 530X04225 c 3 ; 0XK04227. U Y. L0 Rtgkngt ni v 0 : 320XK0 ; 0XKK04225. E H V 0 [5] g t p a l g f t m c P R . 7379. ; 22. o. t c - g n k p k - v . 60XK04224. U Y. R0 Xqpk mc ni v 0 [6] g t p q w u / X R n k . 7278. 472. o. u q w u v e x c t { d p f m x e j q p q d f q u c f . o q m c f w r f i v q m w f q t { d p f m . 360X0/30XKK0. 470XKK0/390XKK04229. O V 0 [7] g u m m w o d w t m * q d g e V e p c n f + . 7479. 842. o. l k l p f u x e j p c f a f q n f o r q v q m L g - m t c d g e * r t c o g p k - v . r q v q m . n g u . n q w m { + . 520X04227. U Y. L0 Lgflgm ni v 0 [8] Ferdinandov *qdge J g l p k e g . 7378. 592. o. u q w v q m O c n 2 j q c X g m 2 j q T m v q n r k e j w . 3 ; 0XK04224. U Y. R0 Xqpk mc ni v 0 [9] Hqlvgem o q m c f R R . 7378. 592. o. 3 ; 0XK04223. U Y. L0 Lgflgm ni v 0 [10] Frýdlant. 7278. 542. o. d g j { g m { U o f 2 . 440X04228. U Y. L0 Rtgkngt ni v 0 [11] Holubník *xte j q n . 7379. ; 72. o. 450XK04225. U Y. R0 Xqpk mc ni v 0 [12] J q t p f g t p a U w f p l e g * q d g e P a x a X g u p c f P l u q w + . 7479. 972. o. o q m c f . q n - k p c . 450XK04228. U Y. L0 Rtgkngt

niw0 [13] **Jqtpf** Nw cp{*qdge} Nw cp{pcf} Pluqw+. 7479. 842. o. 390XK04225. U.Y. R0'Xqpk mc'niw0 [14] **Horní Pertol/tice** *qdge Rgtvqmkge+. 7278. 522. o. <tm> am x't{dp}m. 30XK04227. U.Y. L0'Lgflgm'niw0= L Jtcpk p{t}{dp}m. r'qf o a gp**qn-kpc. 360X0/470XK04229. O V0 [15] **Horní Polubný** *qdge Mq gpqx+. 747. : 922. o. nqwm{c} o qm cf{ 'x' Áfqm} l'x' qf' qucf{. 3; 0XK04228. U.Y. L0'Lgflgm' ('R0'Rtkgungt'niw0 [16] **Jtcd vkcg** *qdge Lcpqx pcf} Pluqw+. 7479. x'tej 'Unqxcpmc. : 42. U.Y. 470X04222. U.Y. L0'Lgflgm'niw0 [17] **Jablonec nad Nisou**. 7479. 852. o. tqj jngfpc Rgv fp. 90XK04223. U.Y. R0'Xqpk mc'niw0 [18] **Javorový vrch** *Mcvg kpum 'j dg+. 7378. eec'922. o. 380XK04225. U.Y. L0'Lgflgm'niw0 [19] **Lgfnqx 'f n'RT**. 7479. 892. o. r'qvqm Lgfnqx. 520X0/380XK04227. O V0 [20] **Lk gyp r'qf Dwmqgx**. 7479. 892. o. x'nm2 nqwm{pc} u'0' qmtcl' qdege. 390XK04225. U.Y. L0'Lgflgm'niw0 [21] **Jizerka** *qdge Mq gpqx+. 737. : 82. o. nqwm{ 'x' qucf. : 0XK04223. U.Y. L0'Rtkgungt'niw0 [22] **Mq gpqx**. 747. : 8. 2. o. r'qvqm w'flgn0' uvcpkge. 3; 0XK04228. U.Y. L0'Rtkgungt'niw0 [23] **Kunratice**. 7278. 4. 2. o. r'cuvxkpc. o qm cf. 440XK04228. U.Y. L0'Lgflgm. L0'Rtkgungt' ('R0'Xqpk mc'niw0 [24] **N a' p' Nldxgt fc**. 7379. 622. o. r'cuvxkpc{pc} x' e'jqf p' o' qmtcl' qdege. 420XK04224. U.Y. R0'Xqpk mc'niw0= Nldxgt fum 't{dp}m. 420XK04224. U.Y. L0'Lgflgm' ('R0'Xqpk mc'niw0 [25] **Nldgtge/Tqej nek**. 7478. 622. o. 3; 0XK04223. L0'Rtkgungt'niw0 [26] **Nldgtge/Xguge**. 7478. 582. o. Áfqm} Xgugem2 j'q' r'qvqm. 90XK04226. U.Y. L0'Rtkgungt'niw0 [27] **Nw cp{pcf} Pluqw**. 7479. eec'822. o. 3; 0XK04224. U.Y. L0'Lgflgm'niw0 [28] **Nwfxmqx r'qf U o tmg o** *qdge Pqx2 O uv'rqf' U o tmg o+. 7279. 'vtecegp 'r'qvqm. 420XK04224. U.Y. R0'Xqpk mc'niw0= r'cuvxkpc{ 'a' rcfp 'qf' qdege. 420XK04228. U.Y. L0'Lgflgm' ('R0'Xqpk mc'niw0 [29] **Malá Útpece RT**. 7479. 922/942. o. x'nm2 nqwm{. o qm cf{ 't{dp} gm. r'qvqm. 390XK0/70XK04224. [R V= 320/480XK04225. O V. [R V0 [30] **Ogepft{U o f2 RT**. 7278. 442. o. d gj{ ' gm{ 'U o f2. 3; 0XK04224. U.Y. R0'Xqpk mc'niw0= t{dp}m Fwd'am. ; 0XK04228. U.Y. L0'Rtkgungt'niw0= t{dp} gm' u'x'qf' t{dp}m w' Fwd'am * o qm cf. r'qf o a gp**qn-kpc. 3; 0X0/3; 0XK04227. O V. [R V= Hlkrqxm' *qdge Xk- qx+. 5. 2. o. p'x' gm{ 'U o f2. 360X0/30XK04229. O V0 [31] **Minkovice** *qdge Xk- qx+. 7278. 472. o * o qm cf{. r'qvqm+. 440XK04228. U.Y. R0'Xqpk mc'niw0 [32] **Mníšek**. 7378. 5. 2. o. nqwm{ 'w'flgn0' vtecv. 460X04225. U.Y. L0'Rtkgungt'niw0 [33] **Pqx2 O uv'rqf' U o tmg o**. 7279. 672. o. 420XK04224. U.Y. R0'Xqpk mc'niw0 [34] **Qnf kej qx'x' J 'fej**. 7378. 622. o. ' aw' P'c R'km' e j. r'qvqm Lg keg. 3; 0XK04225. U.Y. L0'Lgflgm'niw0 [35] **Playv**. 7479. 622. o. Áfqm} R'qtwdum2 j'q' r'qvqm *t{dp} gm. ngupf' r'qvqm+. 450XK04228. U.Y. L0'Rtkgungt'niw0 [36] **Poustecká obora** *x' e'jqf p' qf' qucf{ 'R'wumc. qdge Xk- qx+. 7278. 4. 2. o. D'wqxum 'r'qvqm. ngupf' t{dp}m{. 520XK04223. R0'Xqpk mc'niw0= 440XK04228. U.Y. L0'Lgflgm. L0'Rtkgungt' ('R0'Xqpk mc'niw0 [37] **Quarré PP** *R'qej 'x'tej+. 7379. tc-gnkp-kv. 80XK04223'c'4. 0XK04225. U.Y. L0'Rtkgungt'niw0 [38] **Raspenava**. 7378 < [38a] > J q'wdf' r'qvqm. o qm cf' r'qf' flgn0' vtecv. 542. o. 330XK04228. U.Y. L0'Rtkgungt'niw0= [38b] < Hctum' nqwmc. qmtcl' ngucm. r'qvqm. 450XK04228. U.Y. L0'Rtkgungt'niw0 [39] **Tc-gnkp-kv 'Lk lgtm{ PRT**. 737. : 82. o. 360XK04223. U.Y. L0'Rtkgungt'niw0= 60XK04226. U.Y. R0'Xqpk mc'niw0= M'w'g'j'q' h'qwmc. 380XK0/4. 0XK04227. O V= Uch'qtq' r'qvqm. 450XK04227. U.Y. L0'Rtkgungt'niw0 [40] **Tc-gnkp-kv 'Lk lgt{ PRT**. 737. : 40a < X' Oq 'ngej. 7379. : 92. o. tc-gnkp** uot kpc. 60XK04224. U.Y. R0'Xqpk mc'niw0= 70/4. 0XK04224. O V= [40b] < X'gm' Lk lgtum' h'qwmc * u'x'qf' RT T' d' h'qwm {+. 737. : 52. o. 430XK04223. U.Y. L0'Lgflgm' ('R0'Xqpk mc'niw0= 40XK04223. U.Y. L0'Rtkgungt' ('R0'Xqpk mc'niw0= 320XK0/450XK04225. O V. : 0/450XK04225. [R V0 [41] **Rudolfow** *qdge Nldgtge+. 7478. 872. o. Áfqm} gtp2 Pku{. 520XK04226. U.Y. L0'Rtkgungt'niw0 [42] **T{d' nqwm{ RT**. 737. : 72. o. tc-gnkp-kv. 4; 0X0/450XK04225. O V. 320XK0/450XK04225. [R V0 [43] **U o tm** * o cux' jqt{+. 7379. c' x'tej qm. 3' 346. o. 420XK04228. U.Y. L0'Lgflgm'niw0= [43b] < x'tej qnx' uot kpc' pe' l' | 0' u'x'c'w. 3' 322. o. 40XK0/350XK04228. O V= [43c] < Mng qx-kv. 3' 272. o * j'q' nkp. u' o tmqx' a' o'nc l'kpc+. 460XK04225. U.Y. R0'Xqpk mc'niw0= 40/420XK04228. [R V= [43d] < r'qvqm X'gm' T' d' {x'qf c' * o quv' r'qf' H'cpeq w'um o' h'nc o gp{+. : 22. o * ngu+. 420XK04228. U.Y. L0'Lgflgm. L0'Rtkgungt' ('R0'Xqpk mc'niw0= [43e] < Nldxgt fum ' o quv. 922. o * d gj' vtecegp2 j'q' r'qvqm. ngupf' r'c o gpk-v +. 420XK04228. U.Y. L0'Lgflgm. L0'Rtkgungt' ('R0'Xqpk mc'niw0 [44] **Ux v n' * qdge Vepxcnf+**. 747. : 922. o. 3; 0XK04224. U.Y. L0'Lgflgm'niw0 [45] **Uk p'fgnx ' f n'**. 7379. 822/ : 82. o. Áfqm} U'k p'fgnx2 j'q' r'qvqm * ngu+. 4; 0XK04225. U.Y. L0'Rtkgungt'niw0 [46] **mqe x't{dp}m' * k'lp' qf' qdege T'c'urgpex+**. 7378. 572. o. 340XK04223. U.Y. L0'Rtkgungt'niw0= 3; 0XK04224. U.Y. R0'Xqpk mc'niw0= 520X0/490XK04224. O V= 4; 0XK0422. : N0 [47] **Trk 'm'c' Uvflq' x'tej** * x'tej qn{. PRT Lk lgtum' j'q' t'um2 dw kp{+. 7378. 822. o. dw kpc. r'qvqm. 420XK0/50XK04225. [R V= 4; 0XK04227. U.Y. L0'Rtkgungt'niw0 [48] **Vlej a' n' f m' RR**. 7479. 972. o. x'nm2 nqwm{. tc-gnkp-kv. 450X04224. U.Y. L0'Rtkgungt'niw0= 380X04225. L0'Lgflgm'niw0= e'j'q'x' h'c'g'x-0 [49] **Tišina** * x'tej qn{. PRT Lk lgtum' j'q' t'um2 dw kp{+. 7379. : 92. o. 420XK04224. R0'Xqpk mc'niw0 [50] **U Kyselky** * k'lp' qf' Pqx2 j'q' O uv'rqf' U o tmg o+. 7479. 822. o. o qm cf. r'c o gpk-v. 'd gj' r'qvqm. 420XK04224. U.Y. L0'Lgflgm'niw0= 420XK04228. U.Y. L0'Lgflgm. L0'Rtkgungt' ('R0'Xqpk mc'niw0= 330X0/50XK04228. O V. [R V. L0'Rtkgungt' ('R0'Xqpk mc'niw0 [51] **X n' r'gpp 'x'tej PR**. 7378. 622. o. q'rw-v p' nq. o. 370XK0'c'4; 0XK04223. L0'Rtkgungt'niw0= 3; 0XK04223. U.Y. H0'Mtco n'niw0 [52] **Zlatá Olešnice**. 747. : 822. o. ' aw' P' x'ctqxum+. n'w p' r'c o gpk-v. 390XK04224. L0'Lgflgm'niw0

X UNGFM ["C" FKUMWUG

R gjngf|lk-v p ej'ftwj

*Chrysops caecutiens**Nkppcgwu. 397: +

Gxtqrumq/ukdk um 'ftwj|cucjw|fe|ux o'ctg'ng o'x um{vw}qf R{tgpplum2 j'q' r'q' nqquv'qxc' *Rqtwicnumq'c'tm'rcp numq+. r'ug'egnq'w'Gxtq'rw'v2 o' pgr gvtflk' *ej{d'x'Oqnf'x'kk'c'x'q'dicuk'w

lkflp|jq"Wtcnw+"pc" F^anp "x ejqf."ugxgtp|"j tcpkeg"rtqej^a |"94^Áugxgtp|" -f m{"c"lkflp|"j tcpkeg"
xgfg"r gu"uv gfgoq um²quvtqx{."Crgpkp{."Dcmm^ap."Mcxmc|."t^ap*^aLgflgm"3; :2c+." f|pw"c"Oqp/
iqnumq|X um{|v|g|o²pc"x"ngupcv ej"qdcucvej"qf"p|flk"r gu"rcjqtmcvkp{"cfl"rq"jqt{|0"Nctx{|
ug"x{x|gl|"r gx^aflp "xg"fp "rqvqm "c"d{uv kp."mwmngp|"rtqd|j "xg"d g|f|ej"xqfpej" |^avq kp"
*Lgflgm"3; 92+0"

Arnoltice [1]<4:0XK04225.";" 0" **gtpqwu{/X"Rqk"}8**<360X0/360XK04229."3" = 360XK0/30XK04229."4" 0"**Ferdi-
nandov [8]**<3:0XK04224."3" 0 **Horní Pertoltice [14]**<360X0/360XK04229."32" .""4" = 360XK0/30XK04229."3" =
30/470XK04229."3" 0"**Javorový vrch [18]**<380XK04225."3" 0"**N^a|p "Nldxgfc"]46**<420XK04224."6" 0 **Meandry
U o f²RT"]52**<3:0XK04224."4" = 3;0/530X0/440XK04227."4" .".3" =530X0/440XK04227."4" .".3" =360X0/360XK04229."7" 0"
Minkovice [31]<440XK04228."4" 0 **Poustecká obora [36]**<440XK04228."3" 0"**que x t{dpfm"]68**<70/390XK04224."
4" =3;0/4:0XK04224."3" .".3" =4:0XK0/320XK04224."3" 0"

Chrysops relictus Ogki gp."3:42

Gxtqrumq/ukdk um "nguquvgrp|"ftwj."pc" |^arcf "ctg^anw"x um{vw"rqmt x^apkf-|"rctvkg"R{tgppl|"
c"ugxgtx ejqfp|" ^auv"Dtkvum ej"quvtqx ."rqmtc wlg^v2o "r gu"egnqw"Gxtqrw*ej {d|"xg"Unq/
xkpumw."Ocmgfpk" c"x"qdcucv"lkflp|jq"Wtcnw+."pc"x ejqf " |cucjwlg"cfll"rq"Lcmwvum|U"ugxgtp|"
j tcpkeg"rtqd|j^a"dqg^anp|"o"gmqtgikppg o"*umcplfkp^axum²uv^av{|+"c"pc"lkjw"xgfgg"nk o kwlf|"e|"j tcpkeg"
r gu"Crgpkp {"c"Dcmm^ap"pc"uv gfgoq um ej"quvtqxgej"ej {d|+." f|pw"c"Oqp iqnumq|X{um {vwlg"
ug"x"p|flk"p"ej" c"rcjqtmcvkp^aej|0"Nctx{|"ug"x{x|gl|"xg"uvqlcv ej"xqf^aej"t{dpfm "c"o nm ej"xqf/
p|ej"p^aftfl|"u"dcjpkv o"pfg o"pgdq"xg"fp "rqo cnw"vgmqwe|"ej"qfxqf qxce|"ej"mcp^an ."rqvqm "
c" gm"*Lgflgm"3; 92+0"

Ogcpft{"U o f²RT"]52<530X0/440XK04227."3" 0"**Minkovice [31]**<440XK04228."4" 0

Chrysops viduatus *Hedtkekwu."39;6+

Fqmncfqx^ap^v2o "xg"x-gej" gxtqrum ej"uv^avgej"*x"pglugxtp l-|"fej" qdcucvej"Umcpfkp^axkg"
ej {d|."vcm²"x"qdcucv"lkflp|jq"Wtcnw."x"D nqtuwum" c"Oqnf^axkk+."pc"x ejqf " |cucjwlg"lgjq"
ctg^an"tq|-|"gp|"cfl"rq" |^arcfp|"Ukdk "*Vqo um+0"lkflp|"j tcpkeg"xgfg"r gu"R{tgpplum "rqnquvtqx."
Crgpkp{."Dcmm^ap."rtqej^a |"Vwtgemg o"cfll"rq"Mcxmc|0"X{um {vwlg"ug"l"pc" o pqj ej"quvtqxgej"
xg"Uv gfg|g o p|"o" o q k0"Nctx{|"ug"x{x|gl|"jncxp "x"dcflk"p"ej" c"o q^angej"*Cnpgvw o+"p|gt |/
p l-|"fej"mtclkpp ej"htq o ce|"*Lgflgm"3; 92+0"

Arnoltice [1]<4:0XK04225."5" 0 **gtpqwu{/X"Rqk"}16**<360X0/360XK04229."3" 0 **Ferdinandov [8]**<3:0XK04224."5" 0
Horní Pertoltice [14]<360X0/360XK04229."3" = 360XK0/30XK04229."3" 0 **Kunratice [23]**<440XK04228."3" 0 **N^a|p
Libverda [24]**<420XK04224."3" 0 **Nwfxmqx"rqf"U o tmg o"]4**:< 420XK04224."3" = 420XK04228."5" 0 **Meandry
U o f²RT"]52**<3:0XK04224."8" = 3;0/530X0" c"440XK0/70XK04227."4" 0"**que x t{dpfm"]68**<70/390XK04224."5" =
3;0/4:0XK04224."6" =320XK0/30XK04224."3" 0 **U Kyselky [50]**<420XK0/350XK04228."3" 0

Hybomitra arpadi *U|kn^af{."3;45+

Nkvt^atp|"Áfc|g<"J qtp|"Rqndp " *Lgflmqx^a3; 96+0
Jqncmvmkem "ftwj"ngup|jq"r^au o c"vcl{|."|p^ao " |g"ugxgtx ejqfp|"ej"qdcucv|"Gxtqr {"*umcp/
fkp^axum²uv^av{"c"qf"Rgvtqj tcfum²"qdcucv"cfll"rq"rqd gfl|"Detgpvuqxc" o q g+."Cukg"*|^arcfp|"
c"x ejqf|"Ukdk ".F^anp "x ejqf." f|pc."Lcrqpumq+c" C o gtkm {"*pgctmvmkem^a ^auv+0"X"Gxtqr "rtq/
d|j^a"lkflp|"j tcpkeg"tq|-|"gp|"v²o "uqwxkung"Dgnikf|"P o gemg o." gumqw"tgrwrdnkmqw*-w o xum^a
c"v gdq um^ate-gnkpk-v +."Rqnumg o."Nkvxqw" c"Oqumgxumqw"qdcucv|"x"Twumw|0"Nctx{|"ug"x{x|gl|"
jncxp "x|cuv|p p ej"uncvkpp ej" k"te-gnkpp ej" o q^angej" c"x"nkvt^aanw" o cn ej"ngup|"ej"p^aftfl|"
*Lgflgm"3; 99d+0"

Quarré PP [37]<80XK04223."3" 0"**Tc-gnkpk-v "Lk|gt{"PRT"]62d**<430XK04223."3" 0

Hybomitra auripila *Ogkigp."3:42+

Nkvtg^atp^lÀfclg^cJqtp^lRqmw^p *Lgflmqx^a3;96+0

Gxtqrum^lngup^lftwj^lur^lg^lx^l{—ej^lrqnqj^l0^lX^l{um{vwlg^lug^lqf^lR^l{tggp^ll^lcfl^lrq^lWmtclkp^l0^lPc^lugxgtw^l
Gxtqr^l{lg^lfqmc^lfqx^ap^l|g^lUmcp^lfkp^axkg^cRqdc^ml^a*u^xlk^omqw^lNkvx^l{+."lkf^lp^ll^ljtcp^lkeg^cctg^anw^lxg^lf^lg^l
qf^lm^lr^lcp^lnum^cr^lgu^lCnr^ll^l."Crg^lpkp^l{c^lugxgt^lp^lDcnm^ap^l0^lEj^l{d^ll^lpc^lDtkvm^lej^lquvtq^xgej^l.x^lJqnc^lp^lf^l/
umw^l.F^apumw^l.Ut^ldumw^cg^ltp²J^lq^lg^l*Ej^anc^l4229+0^lNctx^l{ug^lx^l{x^ll^lgl^lx^lg^luncv^lkpp^lej^lo^lq^langej^l
c^lpc^ltc^lgnk^lpk^lv^lfej^l0

Dgf kejqx^axqf^lp^aftfl^l[2]_{<3:0XK04224.5} 0**Bílý Potok [3b]**_{<50XK04227.3} 0**Jqtp^lNw cp^l[13]**_{<390XK04225.3} 0**Jted** vleg^l[3b]_{<470X04222.3} 0**Javorový vrch [18]**_{<380XK04225.3} 0**Lgfnqx** f n^lRT^l[3]_{<520X0/380XK04227.3} 0**Lk** gv^lp^lr^lqf^lDwmqxw^l[20]_{<390XK04225.3} 0**Nw cp^l{pcf^lPluqw^l[29]**_{<3:0XK04224.3} 0**Nwfx^lmqx^lr^lqf^lUo t^lmg o^l** [28]_{<420XK04224.3} =420XK04228.5 0**Poustecká obora [36]**_{<440XK04228.3} 0**Quarré PP [37]**_{<80XK04223.3} 0**Te-gn^lpk^lv** Lk|gtm^l{PRT^l}[5]_{<360XK04223.3} 0**Te-gn^lpk^lv** Lk|gt^l{PRT^l}[62c.d]_{<430XK04223.6} =70/390XK04224.3 0**T**{d^ll^lnqw m^lRT^l}[64]_{<320/480XK04225.4} =480XK0/0XK04225.3 =;0/450XK04225.3 0**Uo tm^l** [43a,b,d,e]_{<420XK04228.48} =430XK0/350XK04228.3 0**Vie^lj^an** f mc^lRR^l[6]_{<450X04224.3} =380X04225.3 . 3^l *^ll^lde^ljpc^lx^l{mq^lr^lcp^lnc^ltx^l{70X0.}l^lcmwm^lgp^l:0X0.gmmq^lg^l380X0.gzwxk^lngctgx^cmwmgn^l0**U Kyselky [50]**_{<420XK04228.5} =420XK0/350XK04228.3 0

Hybomitra bimaculata *Oceswctv."3:48+

V² o^l x^legn²ren^lgctmvkem²qdc^luvk^lqf^lDtkvm^lej^lquvtqx^lrq^lx^lejqf^lUkd^l.Mc^ocvmw^l.Lcrq^lp/
umq^l.vcm²0**Qpi**qnum^lc^l f^lpw^l.cng^lpgx^l{um{vwlg^lug^lxg^luv^lgfqcuklum^lej^ltgrwdnkm^aej^l0^lX^lGxtqr^l
x^lugxgt^lp^lej^lk^llkf^lp^lej^lqdc^luvej^l.fqmnc^lf^lq^lx^lum{vw^lej^l{d^ll^lI^lx^lRqt^lvw^licnum^l.Ktum²tgrwdnkeg^l.
lkf^lp^lo^lDcnm^apw^l.D^lnqt^lwumw^l.Oqn^lf^axk^lc^lx^lr^au^ow^lqf^lDet^lgpvu^xc^lo^lq^lg^lr^lqf²n^lWtcn^w*x^lejqf^lp^l
a^luv^lgxtqrum²j^lq^lTwumc^l0^lNctx^l{ug^lx^l{x^ll^lgl^lx^lg^ld^lg^ll^lfej^lt^l{d^ll^lp^lm^l.lg^lgt^l.wo^ln^lej^lxqf^lp^lej^lp^aftfl^l
c^lrq^ocnw^lvgm^lqwe^lfej^lmcp^an^l.ftgp^afl^lcrq^lf0^l.pc^lngup^lej^lo^lq^langej^lc^lx^ln^lm^lej^lnqwm^aej^l*Ej^anc^l
("Lgflgm"3;8;+0

Dgf kejqx^axqf^lp^aftfl^l[4]_{<3:0XK04224.4} 0**Bukovec PR [4]**_{<350XK04223.3} 0**gtp^alg^lf^lmc^lRT^l]**7]_{<60XK04224.3} 0**gtp^lqw^l{X^lRq^lnk^l[6]**_{<360X0/360XK04229.7} 0**Ferdinandov [8]**_{<3:0XK04224.3} 0**Holubník [11]**_{<450XK04225.3} 0**Horní Pertoltice [14]**_{<30XK04227.3} 0**Kunratice [23]**_{<440XK04228.3} 0**Nwfx^lmqx^lr^lqf^lUo t^lmg o^l** /kem [28]_{<420XK04228.5} 0**Ogcpft^lUo f²RT^l]**52]_{<3:0/530X04227.3} =;0XK04228.3 =360X0/360XK04229.3 0**Te-gn^lpk^lv** Lk|gtm^l{PRT^l}[5]_{<70/4:0XK04227.3} 0**Te-gn^lpk^lv** Lk|gt^l{PRT^l}[62d]_{<40XK04223.3} =;0/450XK04225.3 0**T**{d^ll^lnqw m^lRT^l}[64]_{<4:0X0/320XK04225.3} =320/480XK04225.5 =480XK0/0XK04225.3 =;0/450XK04225.5 0**Uo tm^l[63g]**_{<420XK04228.4} 0^lm^lqne^lx^lt^l{d^ll^lp^lm^l}[68]_{<390X0/70XK04224.3} =3:0XK04224.3 =4:0XK0/320XK04224.3 0**X^argpp** xtej^lRT^l]73]_{<370XK04223.3} 0

Hybomitra ciureai *U²i w^l."3:59+

Gxtqrumq/ukdk um^lnguquvgrp^lftwj^l.mvg^lt^lug^lx^l{um{vwlg^lpc^lx^lv^lkp^lÀ|g^oq^lGxtqr^ll^l.x^l|^arcf^lp^l
c^lx^lejqf^lUkd^lk^l.pc^lMexmc^lg^lc^lx^l\cmxmc^lumw^l.x^lMc^lce^lj^luv^apw^l.Vwtgemw^l.t^lpw^l. f^lp^lc^lOq^lp/
iqnumw^lX^lGxtqr^ll^lce^lq^lo^lej^l{d^ll^lI^lÀfclg^l|^lRqt^lvw^licnum^l.Ktum²tgrwdnkm^ll^l.Pqtumc^l.Unqxpumc^l.
Nqv^l—umc^l.Wmtclkp^ll^l.Oqn^lf^axkg^c—kt^l—q^ldc^luvk^llkf^lp^lj^lq^lWtcn^w0^lNctx^l{ug^lx^l{x^ll^lgl^lx^lnkvt^anw^lj^lncxp^l
ngup^lej^lxqf^lp^lej^lp^aftfl^l.x^ldc^ljp^lkv^lej^logcp^lftgej^lgm^cvcm²pc^lo^lq^lnqxkv^lej^lnqwm^aej^l*Ej^anc^l
("Lgflgm"3;8;+0

Ogcpft^lUo f²RT^l]52]_{<3:0XK04224.3} 0

Hybomitra distinguenda *Xgttcn."3:2;+

Ren^lgctmvkem^lngup^lftwj^l0^lX^lum{v^lv²o^lrq^legn²Gxtqr^lc^lCukk^lx^lg^lyp^lF^anp²j^lq^lx^lejq^lfw^l.Lcrq^lp/
umc^l. f^lp^l{c^lOq^lpiqnum^l*ej^ld^ll^lxg^luv^lgfqcuklum^lej^ltgrwdnkm^aej^ld^lx^lcn²j^lq^lUUUT+0^lPgl^llkf^lp^llk^l
fqmnc^lf^lqxc^lp^lgzg^orn^aud^lf^ltcp^lGem^lgtngk^lpg^orqej^a|^lq^l|Ooctqmc^l*Lgflgm"3; ;7+0^lX^lt^aoek^lGxtqr^ll^l
ftwj^lpgp^lf^lqmc^lf^lqxp^l|^lRqt^lvw^licnum^l.Ktum²tgrwdnkm^ll^l.Nqv^l—umc^l.D^lnqt^lwumc^l.Oqn^lf^axkg^l.lkf^lp^lj^lq^l

Dcnm^apw^cx^a-ktqm²o^r r^auw^{qf} Dctg^pvuqxc^c o^q g^cfi^rq^q Mcurkm⁰ Nctx{^cug^x{x^flg^lg^l xⁿkvqt^anwⁿ ngup^eej^t{dp^fm^clg^lgt^g.xg^uuncvkpp^e ej^oq^angej^cpc^{tc}-gnkpk^{-v}ej^xp^fflkp^aej^krcjqtmcvkp^aejⁿ *Ej^xa^{nc}" ("Lgflgm³;8;+0

Arnoltice [1] < 4: 0XK04225.5' 0 **Bílý Potok** [3d] < 430XK04228.5" 0 **gtpqwu**{/X^Rqnk^l]8_ < 360X0/360XK04229.4" = 360XK0/30XKK04229.5" 0 **Ferdinandov** [8] < 3: 0XK04224.8" 0 **Holubník** [11] < 450XK04225.5" 0 **Horní Nw cp** [135_ < 390XK04225.8" 0 **Horní Pertoltice** [14] < 360XK0/30XKK04229.4" 0 **Javorový vrch** [18] < 380XK04225.5" 0 **Lk gv^fp^rq^fDwmq^xw**]42_ < 390XK04225.7" 0 **Kunratice** [23] < 440XK04228.32" 0 **N^alpⁿ"Nkdxgt^fc**]46_ < 420XK04224.6" 0 **Nw cp**{^cpc^f"Pkuw^q]29] < 3: 0XK04224.3" 0 **Nwfx^fm^qx^rq^fU o tmg o**]4_ < 420XK04224.34" = 420XK04228.4" 0 **Poustecká obora** [36] < 440XK04228.33" 0 **Quarré PP** [37] < 80XKK04223.4" = 4: 0XK04225.3" 0 **Tc-gnkpk^{-v} "Lk|gt**{^c"PRT"]62d_ < 430XK04223.3" = 40XKK04223.3" = 390/4: 0XK04224.3" = 480XK0/; 0XKK04225.4" 0 **T**{d^fn^qw m{^c"RT"]62] < 0/450XKK04225.3" 0 **U o tm**]63a,b,e,d,g< 460XK04225.3" = 420XK04228.53" = 430XK0/350XKK04228.3" 0 **kp^fgnq^x "f n**]67_ < 4: 0XK04225.3" 0 **mqe x^t{dp^fm**]68_ < 390X0/70XK04224.4" = 70/390XK04224.3" = 3: 0XK04224.9" = 3: 0/4: 0XK04224.3" = 4: 0XK0/320XKK04224.4" = 320XKK0/30XKK04224.6" 0 **rk^am**]69_ < 4: 0XK04227.34" 0 **U Kyselky** [50] < 420XK04224.3" = 40/420XK04228.3" = 420XK04228.6" = 420XK0/350XKK04228.6" 0 **X^argppⁿ"xtej^rT**]73_ < 3: 0XKK04223.3" 0

Hybomitra kaurii Ej^xa^{nc}gvⁿ{pgdqti.3;92

Gwtqukd^umⁿ "ftwjⁿ.mvg^t "lgⁿtq^l-|^f gp^r gu^x v-kpw^{uv}a^v "r k^Ugxgt^po^c"Dcnvum²o^oq^kc^ddtg^anp^f gmqtgⁱkq^p*Umcp^fkp^axg⁺0^guv^gf^pg^fGxtqr[{]* gum^a"tgrwdnkmc^o"V gdq^um^ra^{pgx}."Unqxpum^q ó[|]a^{rcf}p^f"Mctrcv⁺+^rqmtc^wlg^ctg^an^xum[{]vw^rgu[|]a^{rcf}p^f"Ukdk^{"c}Dclmncum²"lg^lgt^qpc^{Mc}o/ cvmw⁰"Pglk^flp^l-|^fj^{tc}pkeg^xg^fg^Cnrc^ok."Cnvc^lg^o.ugxgt^p "fpqw^c"Oq^pi^qunmg^oo^Ftwj["]pgd[{]n[|]cv^fo["]ud^ta^ppc^R{tgp^glum²o^rrnq^qqv^tx^g."Dtkvum^{ej}"qv^txg^{ej}.x^Pk[|]q^lg^oumw^{."Oc}ctumw^{."x}ugxgt^q/lk^fp^fo["]rtwj^wq^fRqdcn^vum^{ej}"tgrwdnk^m.r^{gu}Dⁿqt^wum^q."Wmtcl^{kp}w^cj^{nc}x^p"Mctrcvum["]qdnq^wm^rq^v2^o"egn["]Dcnm^ap^o"f^qmn^cf[{]"gzkuvw^lrqw[|]g^lg["]Unqxpum^c"Ej^qtxcvum^c*Ej^xa^{nc}"4229+0["]Nctx[{]ug^x{x^flg^lg^lrtcx^f r^qf^qdp^{pc}uncvkpk^{-v}ej^xu^vp^ok."c^vq^xp^fflkp^aej^{."rcj}qtmcvkp^aej["]k^jqt^aej["]*ngup^fqdn^{cv}k⁺."dkpp^okg["]pgd[{]nc[|]cv^fo["]rq^ftdp["]uvw^fq^xa^{pc}0

Tc-gnkpk^{-v} "Lk|gtm{^c"PRT"]5;_ < 360XK04223.3" = 380XK0/50XKK04227.3" = 450XK04227.3" 0 **T**{d^fn^qw m{^c"RT"]64_ < 320/480XK04225.8" 0 **kp^fgnq^x "f n**]67_ < 4: 0XK04225.3" 0

Hybomitra lundbecki N{pgdqti.3;7;

Gwtqukd^umⁿ "ftwjⁿtq^l-|^f gp^r v²o["]x^{egn}2["]Gxtqr["]u^xlk^omqw["]Dtkvum^{ej}"qv^tqx^{."T}rc^pnum^c"c^Rqt^wi^cnum^c.x^v-kp[{]"dcnm^apum^{ej}uv^av["]*x^{um}{^v|c[|]pc^ogp^ap^rq^w|g^x"Cnd^apk^{."Unq}xpumw["]c^Ej^qtxcvumw^{."Oq}n^fa^xg^{."D}n^qt^wumc^{."Nq}{-umc^{."Guv}qumc["]c^rq^fj["]Wtcnw⁰"Pgu^qw^xkun["]ctg^an^xum[{]vw^rqmtc^wlg^rgu["]Ukdk["]c^{fi}pc^{Mc}o^{cvmw}"F^anp["]x^{ej}q^f0["]Ugxgt^pl^jtc^pkeg["]lg^{nk}o^{kv}qx^apc["]Ncrq^pum^o."lk^fp^fj^{tc}pkeg^Crg^pkp^ok."Cnd^apk^{."Mctrcvum["]o^{qdn}q^wmg^or^{gu}"Dclmⁿ"f^q"p[{]"c["]Oq^pi^qnum^c0["]X["]Gxtqr["]ej[{]d^l"vcm²"f^qmn^cf[{]"|^xej^qf^p"^auv^k"Twumc["]q^f"Dctg^pvuqxc["]o^qg["]rq["]Mcurkm⁰"Nctx[{]ug^x{x^flg^lg^lxⁿkvqt^anwⁿngup^eej^t{dp^fm^{."lg}l^gt^g"w^on^{ej}"x^fp^fej["]p^aft^ll^{."x}o^qm^cfg^{ej}"c^lgl^{ej}"qm^qn⁰"o^xg^vp["]j^qtum^{ej}"n^qmcⁿv["]*Ej^xa^{nc}" ("Lgflgm³;8;+0}

Jqtpⁿ"Nw cp{^c"I33] < 390XK04225.3" 0 **Mq gpqx**]22] < 3: 0XK04228.3" 0 **Kunratice** [23] < 440XK04228.3" 0 **Malá Uvtepe**"RT"]4;_ < 320/480XK04225.3" 0 **Ogepft**{^c"U o f²"RT"]52_ < 3: 0/530X04227.3" 0 **Mníšek** [32] < 460XK04225.3" 0 **U Kyselky** [50] < 40/420XK04228.3" 0

Hybomitra micans *Ogkigp.3:26+

Gxtqr^umⁿ "ftwjⁿu^{ctg}a^{ng}o^xum[{]vw^qf^r"{tgp^glum²j^qr^qnq^qvt^qx^cr^{gu}"Dtkvum²qv^tqx[{]"c^uv^av[{]"r^k"Ugxgt^po["]o^qk^{."r}gu^{uv}g^fp^f"Gxtqr^w"c^{ug}xgt^p"Crg^pkp[{]"r^qugxgt^p"Dcnm^ap⁰"|^{cv}f^o"pg^p"f^qmn^c/f^qx^ap^x"Rqt^wi^cnumw^{."Kt}um²"tgrwdⁿkeg^{."Oc}ctumw^{."Dq}up["]c["]J^gtegⁱq^xkp^{."Cnd}a^{pk}."Ocm^gf^qpk^{."Dw}n^jctumw^{."gen}w^{."xg}"Umcp^fkp^axk["]"gxtqr^{um}2["]a^{uv}k["]Twumc["]*Ej^xa^{nc}"4229+0["]J^{nc}x^p"ngup^eej["]dk^qv^rgej["]*uncvkpp^{ej}"k["]tc^{-gn}kpp^{ej}+^qf["]p^fflkp^rq["]j^qt^{."mf}g["]nctx[{]"pcn²|^{cl}"x^jq^fp²"rt^qv^{gf}l^{rt}q^{ux}l^xx^ql⁰

Dgf lejxq^xqf^pp^af^tfl [2]<3:0XK04224."3" 0 Bily Potok [3b]<50XK04227."4" = 50/380XK04227."6" 0 Bukovec PR [4]<530XK04225."3" = 3:0XK04227."4" 0 gum^mw o dwtmⁿ9<520XK04227."3" 0 Frydlant [10]<440XK04228."5" 0 Horni Polubny [15]<3:0XK04228."5" 0 Nwfx^mmq^xrqf^Uo tmg o^l4: <420XK04228."3" 0 Mnisek [32]<460XK04225."3" 0 Raspenava [38a]<330XK04228."3" 0 Tc-gnkp^v "Lk|gt{"PRT"}j6c.d.<430XK04223."3" = 60XK04224."5" = 70/390XK04224."6" = 320/480XK04225."3" 0 U o tm^l765c.d.e.f.g.<40/420XK04228."4" = 420XK04228."3:" 0^mqne^x rybnik [46]<520XK0390XK04224."3" = 390XK070XK04224. 95 .3 =70/390XK04224."3" 0 U Kyselky [50]: 330XK0/40XK04228."3" = 40/420XK04228."34" .3 = 420XK04228."6" = 420XK0/350XK04228."3" .3" 0

Hybomitra montana *Ogki gp."3:42+

Rengctmvkem "ngup^l ftwj "tq|-^l gp "qf" Dtkvum ej^l quvtqx "c" R{ tgpplum² j^q rqnqquvtqxc^r gu^l egnq^w Gxtqrw^{*pc}ugxgtw^Umc^pfkp^axkg^c"Nkvxc."pc^lkjw^Crgpkp^l "c^Dcnm^ap⁺.x^Cuk^kr^gu^Ukd^k "cfl^r r^qMc^o c^{vmw}"c^Lcrqumq⁰Lkflp^l j^tcpk^gxgfg^r gu^Oqpiqumq." fl^pw^cMc^lcejuv^ap⁰Pc^x ejqf^l " Gxtqr^l "lg^x um^l{v^tgikvutq^ap^xk|qnqxc^po² "r^auw^qf^Hkpum² j^q |^ankxw^rq^Mcurkm."cng^qf^d gj^l " Dctgpvuqxc^o q^grf²n^Wtcnw^ej^dl⁰X um^l{v^pgd^l{n^tqxp^{fl} |c|pc^ogp^ap^xGuvqumw."Nqv^l{-umw." Dⁿqtumw."Wmtclp^l ."Oqnf^axkk."Oc^lctumw."Dq^up^l "c" Jgtegiqxk^l ."Cnd^ap^k."Ocmg^fqpk^k." Dwnjctumw." gemw^cpc^l|^arcf^l "vcm²x^Rqtwi^cnumw^{*E}j^x^anc⁴229+⁰R^gpc-g^l "cpvj^tczw⁰Nctx^l " ug^x{x^lgl^l"x^dcj^p "r^kd^g|^ej^l fl^{gm}."pc^ltc-gnkp^v|^ej^l "k^xn^w p^le^j" "o^q ^anej^uquv^{keg}ok^{*}Uq/dqngxc^gvn⁰3;96+0

Bily Potok [3d]<430XK04228."3" 0 Holubnik [11]<450XK04225."3" 0 Quarré PP [37]<80XK04223."3" 0 Tc-gnkp^v " Jizery NPR [40a,b]: 70/390XK04224."3" = 390/4:0XK04224."3" = 320/480XK04225."3" = 480XK0/;0XK04225."4" = ;0/450XK04225."3" 0 T{d^lq^wm^l"RT"}j64<4:0XK0/320XK04225."5" = 320/480XK04225."8" = 480XK0/;0XK04225."3" = ;0/450XK04225."3" 0

Hybomitra muehlfeldi *Dtcwgt."3: :2+

Rengctmvkem "ftwj^ltgikvutqxc^p "pg^lArⁿp^l "uqwxkung^qf^l Dtkvum ej^l quvtqx "cfl^r r^q Dgtkpiqxw^Aflkpw="pc^lugxgtw^Gxtqr^l{^qf^Ncrqumc^rq^uv^av^l "r^kU^vgfq^lgop^lo^o q^k.vcm²Mcxmc^l"c^lCnvc^l0^P ^arcfp^l "k|qnqxc^p "r^au^x um^l{vw^xg^x ejqfp^l Gxtqr^l "urqlwl^gHkpum^l |^ankx^c"Mcurkm="dg|^l " x um^l{vw^lg^lPqumq."Hkpum^q"-ktqm^l "rtwj^lrf²n^Wtcnw^{pc}ugxgtw^rq^dgj^l{ "Dctgpvuqxc^o q^g0^E j^l{d^ll⁰vcm²x^r^auw^Guvqumq."Nqv^l{-umq."Dⁿqtumw."Wmtclp^lpc^lOqnf^axkg."uvglp^l "lcm^qpc^R{tg/ pglum²o^r rqnqquvtqx^l .xg^Htcpekk."Unq^xk^pumw."Dwnjctumw."Ocmg^fqpk^k."Cnd^ap^k"c^l gemw⁰X um^l{v^xp^lflk^pe^j"c^rcj^qtmcvk^pe^j0^Nctx^l{ug^x{x^lgl^l"x^t{dpk^{pcv}ej^lq^dncuvgej^{pc}xⁿj^mej^ldk^qv^rgej^l *Ej^x^anc^l ("Lgflgm"3;8;+0

Minkovice [31]<440XK04228."3" 0 Poustecká obora [36]<440XK04228."4" 0 U Kyselky [50]<420XK04228."3" 0

Hybomitra tropica *Nkppcgwu."397:+

Gxtqr^{um} "ftwj."lgjql^lctg^an^x um^l{vw^rrqmt^x^mrcp^{num}q."uv^av^l{ "r^kU^gxgt^pl^o "o^q k."Umcp^lfk^axk^k." uv^gfg^qxtqr^{um}²uv^av^l{ "c^l|^dcnm^apum^{ej}uv^av^l "rqw^lg^Unq^xk^pumq."Ej^qtxc^{um}q."Utdum^q"c^l gtpq^w Jqt^w0^Ej^l{d^ll⁰xg^mx^{ectum}w."Oc^lctumw."Rqnumw."pc^Crgpk^pe^j"c^Dtkvum^{ej}quvtqxgej⁰Fqmc/ f^l " "x^{ej}qfp^ej^l " ^auv^krcngctmvw^{luq}w^{pg}lkuv²*^l ^ao^{pc}"x^{okpwn}quv^ku^{ftwj}g^o"*H. fulvicornis* cwe⁰+⁰Nctx^l{ug^x{x^lgl^l"x^{nkv}qt^anw^{pg}lt^l |p^ll^le^j"xqf^pf^ej^l ^af^tfl^l "k^vqm^l ."x^{ngup}|^ej^ld^cflk^pe^j "c^lpc^ltc-gnkp^v|^ej^l*Ej^x^anc^l ("Lgflgm"3;8;+0

Ogcpft^Uo f²RT^l752<3;0/530XK04227."4" 0 Minkovice [31]<440XK04228."3" 0 Tc-gnkp^v "Lk|gtm{"PRT"}75;<380XK0/50XK04227."3" 0

Tabanus autumnalis Nkppcgwu."3983

Nkvt^atp^lÀfclg<Vcpxcnf."P^axctq^x*Xk^oogt³;35+0
Rengctmvkem "ftwj^ltq|-^l gp^v2^o "x^{egn}²Gxtqr^l "x^gyp^ldq^tg^anp^lj^qgm^qt^gik^qppw."r^{gu}l^arcfp^l "c^x ejqf^pUkd^k *mtq^o "p^gl^ug^xgt^p l^le^j"q^dncuv^l+^cfl^rq^Ej^cdctq^xum⁰Lkflp^l"r^au^xgfg^r gu^luv^av^l {"

ugxgtpf|Chtkm{"c"quvtqx{"xg"Uv gfq|gop|o"o q k."Vwtgemq."Mxmc|.uv gfcqclum2"tgrwdnk{"Kt^m."~t^p."Chij^pkuv^p." f|pw" c" Oqpiqumq0—fclg|cv|o"ej{d| |Ktum2"tgrwdnk{"Hkpumc" c"x ejqfp|ej" gxtqrum ej" qdncuvf| r k" rqd gfi|Dctgpvuqxc" oq g." r qf j |"ugxgtp|j q" Wtcnw." Nqv{-umc."D nqtumw" c" Oqnf^xkg0" \cn^v^k" r q o tp "x{uqm"fq"jq|Nctx{"n|g"pcn2|v"jncxp " x"dcjpkv2 o"nkvt^nw"t{dp|f|.lg|gt"ct|ngjn ej"wo n ej"xqfp|ej"p^ftf|."x xql"ug"o flg"rtq/v^ jpqwv"kc"4"tqm{"*Lgflgm"3;99e+0

Jqtpf|Nw cp{|J35_<390XK04225."3" 0

Tabanus bovinus Nkppcgwu."397:

Nkvt^tpf|fclg<Rgmnq^*Lgflmqx^"3;96+0

Gwtqukd um "ftwj"u"tq|_f|gp|o"v2 o "r gu"egnqw"Gxtqrw" x gvp "umc|f|k^axum ej"uv^v ."ctg^an" x um{vw"rqmt x^" |^rcf|f|c"x ejqfp|Ukd "cfl"rq\Cncl0|Lkfp|nkpkg"rtqej^ |f|Vwtgemg o."Mxmc| |go."Mc|cejuv^pg o" c"Uv gfp|Cukf.|c|pc o gp^p|lg"x um{v"kg"uv^vej"ugxgtpf|Chtkm{0^X"Gxtqr " ej{d|f"x Rqtwi cnumw."Ktum2"tgrwdnkeg."Nqv{-umw."D nqtumw" c" Oqnf^xkg0" Nctx{"ug"x{um{vw|f| qdx{mng"x"nkvt^nw"|cuv|p p ej"xqfp|ej"p^ftf|."cng"mwmngp|rtqd|j^"x"uwduv^vej" cuvq"fcngmq" qf"xqf{0^X xql"nctg"x"fq"gmng|g"ko^a"ic"ug"o flg"rtqv^ jpqwv"cf|pc"5"tqm{"*Cpftgxc"3; ;2+0

U Kyselky [50]<420XK04228."3" 0

Tabanus bromius Nkppcgwu."397:

Gxtqrumq/|^rcfqukd um "nguquvgrp|ftwj0" Tq|_f|gp|qf"Ncrqumc"rq"uv^v{"ugxgtpf|Chtkm{"c"qf" R{tgpplum2"jq"rqnquvtqxc" c"Dtkvum ej"quvtqx "rq"ukdk umqw" gmw"Qd."Mc|cejuv^p" c"Uv gfp| Cukk="ugxgtpf|Chtkmc."R gfp|Cukg.^t^p^*Lgflgm"3; :2c+^c"Chij^pkuv^p0"Ej{d|f|lgf|p "x"D nqtumw0" Pcf o q um^" x -mc"pgjtelg" xg" x um{vw"tqnk0" R gpc-g "vwnct^o kg."cpvjtczw" c"vt{rcpquq o>>|0" Nctx{"ug"o qj qw"x{x|lg|x"nkvt^nw"xqfp|ej"p^ftf|."xg"d g|f|ej"rqvqm "c" | gm."cng"vcn2"x"uwej^2" |g o k"fcngmq"qf"xqf{"o"pc"nqwm^ej" c"rcuvxkp^ej" *Lgflgm"3;99e+0

Bílý Potok [3a,c]<340XKK04223."3" .3" 0 gtpquw{/X^Rqnk"}J8_<360X0/360XK04229."3" = 360XK0/30XKK04229."3" 0
Ferdinandov [8]<3: 0XK04224."4" 0 Horní Pertoltice [14]<360XK0/30XKK04229."3" 0 Kunratice [23]<440XK04228."3" 0 N^|p "Nkdxgtf|c|46_<420XK04224."6" 0 Nwf^xmqx"rqf"U o tmg o |J4_<420XK04224."7" = 420XK04228."6" 0
Minkovce [31]<440XK04228."3" 0 Poustecká obora [36]<440XK04228."5" 0 Mqne x^t{dp|f|68_<340XKK04223."3" = 390X0/70XK04224."3" = 70XK0/30XKK04224."5" = 3:0XK04224."6" = 3:0/4:0XK04224."45" =^4:0XK0/320XKK04224."46" = 320XKK0/30XKK04224."59" = 30/360XKK04224."6" =^4:0XK0422:."3" 0 M^rk "am"}J69_<4:0XK04227."4" 0
U Kyselky [50]<420XK0/350XKK04228."3" 0

Tabanus cordiger Ogi gp."3:42

Gxtqrum "ftwj"u"x um{vg o"v2 o "rq"egn2"Gxtqr "x gvp "Dtkvum ej"quvtqx "c"umc|f|k^axum ej" uv^v ." |"Rqdcn|f|c|pc o gp^p"rqw|g|"Nkvx{"f^ang"rcm"x"rtwjw"qf" Hkpum2"jq" |^nkw"cf|rq"lklfp| Wtcn="lklfp|nkpkg"ug"v^a"jpg"qf" Mcp^atum ej"quvtqx "r gu"ugxgtpf|Chtkmw."Ocnqw" Cukk."Mxmc| " cfl"rq"t^p0"Ej{d|f|x"Ktum2"tgrwdnkeg."Ncrqumw."Mct^nkk."À|g o |r k"Dctgpvuqx "o q k."D nqtumw" c"Oqnf^xkg0" TgqLnp|nctx{"luqw"|lkuvkvgnp2"pglpg"xg"urngvk"x|rn cxc ej"tquvnp" | gm."cng"k"rqf" mc o gp{"xg"fp "d{uv kp."|g o2"pc"u"r"fu kv ok'd gj{0^X xql"ug"o flg"rtqv^ jpqwv|c|pgr |p|x ej" r q f o |pgm"cf|pc"4"tqm{"*Cpftgxc"3; ;2+0

Ogcpft{"U o f^2"RT"}J52_<0XK04228."3" 0

Tabanus maculicornis \gvgtuvfv."3:64

Gxtqrumq/|^rcfqukd um "ftwj0" X um{v^v2 o "x"egn2"Gxtqr "x gvp "dqtg^anp|j q"gmtgikqpw" c" |^rcf|f|Ukd g="vcn2" Mxmc|."Mc|cejuv^p" c"Dclmcn0" \g"ugxgtpf|Chtkm{"pgp|f qmncf qx^p0

Ej {d}f"xRqtvi cnumw."Ktum²tgrwdnkeg."Rqdcnfl."D nqtwumw."Oqnf^axkk."Ocmgfqpkk." gemw^cvcm² x"qdcnvcvk"mqng o "lkflp|jq"Wtcnw⁰Nctx{"ug"x{x|lgl|}pc"rqfqdp ej"dkqvgrgej"lcmq" w"70"*bromius* *Lgflgm"3; 99e+0

Arnoltice [1]< 4:0XK04225."3 0 **Dgf kejqx"xqfp|p^aftfl**]4_<3:0XK04224."8 0 **Bílý Potok [3b,d]**<50XK04227."6" = 380XK0/70XK04227."4 = 430XK04228.";" 0 **gtpqwu{/X"Rqk"}8]**<360X0/360XK04229."3 0 **Ferdinandov [8]**<3:0XK04224."3: 0 **Hqlvgem "o qm cf"RR**];_<3:0XK04223."3 0 **Holubník [11]**<450XK04225."3 0 **J qtpf" gtp^{aa} Uwf|pkeg**]34.<450XK04228."5 0" **J qtpf|Nw cp**{]35_<390XK04225."6 0 **Horní Polubný [15]**<3:0XK04228.";" 0 **Jablonec nad Nisou [17]**<90XK04223."3 0 **Javorový vrch [18]**<380XK04225."5" 0 **Lgf|qcx "f n"RT**]3;< 520X0/380XK04227."3 0 **Lk gv|p"rqf"Dwmqxq w**]42_<390XK04225.";" 0 **Mq gpqx**]44_<3:0XK04228."4 0 **Kunratice [23]**<440XK04228."5" 0 **N^a|p "Nkdxgt f c**]46_<420XK04224."33 0 **Nw cp**{**pcf"Pkuw**]49_<3:0XK04224."3 0 **Ludvíkov rqf"U o tmg o**]4;< 420XK04224.";" = 420XK04228."35" 0 **Ocn^a"Uvtcpe"RT**]4;< 390XK0/70XK04224."3" = 320/480XK04225."3 0 **Ogcpft**{**U o f²RT**]52_<3:0XK04224."5" = ;0XK04228."4 0 **Minkovice [31]**<440XK04228."4 0 **Pqx²O wq"rqf"U o tmg o**]55_<420XK04224.";" 0 **Plavy [35]**<450XK04228."4 0 **Poustecká obora [36]**<440XK04228."6 0 **Quarré PP [37]**<80XK04223."33 0 **Raspenava [38a]**<330XK04228."3" 0 **Tc-gn|pk-v "Lk|gt{"PRT"}60a**<390/4:0XK04224."8" 0 **U o tm**]65c.d.e.f.g 0 **460XK04225."4" = 420XK04228."64" = 40/430XK04228."4" = 430XK0/350XK04228."7" 0 **Ux w^a"j66_<3:0XK04224."3 0 **Wkpfgnqx "f n"**]67_<4:0XK04225."3 0 **Wm^{aa}qne x^t{dp|m}**]68_<390X0/70XK04224."9" = 70/390XK04224."8" .3" = 3:0XK04224."44 = 3:0/4:0XK04224."8" = 4:0XK0/320XK04224."3" = 4:0XK04224."3" 0 **W^{aa}m**]69_<4:0XK04227."4" 0 **Tišina [49]**<420XK04224."3 0 **U Kyselky [50]**<420XK04224."4" = 40/420XK04228."39" = 420XK04228."5" = 420XK0/350XK04228."38 0 **Zlatá Olešnice [52]**<390XK04224."3" 0****

Tabanus sudeticus \ngngt."3:64

X um{"x"x^{v2} o "egn²Gxtqr "x gvp "dqtg^anp|jq"gmqtgikqpw."x ejqfp |cucjwlg"ctg^an"tq|-| gp|f" cfl"fq|"^arcf|p|Ukdk g⁰Pc"lkjw"ugxgtp|}Chtkmc."Ocn^aCukg^cMcxmc|0"Ej {d}f"x"Mct²nkk^c"À|g o|}r k" r qd gfl|Dctgpvuqxc"o q g."xRqdcnfl^a"u"x lk o mqw"Nkvx {+."D nqtwumw."Oqnf^axkk."Cnd^apk^c"Ocmgfq/ pkk⁰Ur|f-g"hgup|c|jqtum "ftwj⁰Nctx{"ug"x{um{vw|}x"o q^angej"r k'd g|f"ej"hgup|ej"xqfp|ej"p^aftfl|." r k"pgr |p|pkx ej"rqf o|pm^aej"ug"x xq|o flg"rtqv^ajpqww"cf|pc"5"tqm{"*Cpftgxc"3; ; 2+0

Tc-gn|pk-v "Lk|gtm{"PRT"}5;_<60XK04226."3" 0

Heptatoma pellucens *Hcdtkewu."3998+

Nkvtg^atp|}Àfc|g< J qtpf|Rqnwdp "Lgflmqx^a"3; 96+0

Gxtqrumq/|^arcfqukd um "ftwj⁰X" Gxtqr "cfl"rq"88Augxgtp|f-| m{"x ejqfp "rtqpk^a"r gu" Ukdk "cf|pc"Cnvc|*uur⁰orientalis+0" Fqmcfc {"ej {d}f|"R {tgp|glum²jq"rqnqquvtqxc."Dtkvum ej"quv/ tqx ."Crgpkp."p|glkflp l-|jq"Dcnm^apw^av¹⁰"Dqup{"c"Jgteg|qxkp{"*Utumc." gtp²Jqt."Cnd^apkg." Ocmgfqpkg^c" gemc+."Rqdcnfl^a"u"x lk o mqw"Nkvx {+."D nqtwumc^c"Oqnf^axkg⁰D^{aa}n o"o f|uvg o"lg^a vcm²-ktqm "r^au"qf"Dctgpvuqxc"o q g"rqf²n"Wtcnw"rq"Meurkm⁰Nctx{"*u"ftu^anp|ok^cncvgt^anp|ok^a p^arcf| ok^voex "jp f ok^aqtcpogpv{"xgnok"jwuv ej"ftqwdqw m ej"vtp +u"ug"x{x|lgl|x"nkvt^anw" ngup|ej"t{dp| m "c"xqfp|ej"p^aftfl|nguqrctm ."cng"pg"yg"x{uqm ej"jqt^aej^a*Lgflgm"3; 93+0

gtpqwu{/X"Rqk"}8_<470XK0/390XK04229."3 0" **Nkdgte/Tqejnkeg]47_<3:0XK04223."3 0 **U Kyselky [50]**<420XK04228."3 0**

Haematopota crassicornis Ycjdngti."3:6:

Gxtqrumq/|^arcfqukd um "hgup|ftwj"tq|-| gp "qf^{aa}rep numc^ax"Rqtvi cnumw"ej {d}f|r gu"Dtkv/ um²quvtqxc{"Umcpfk^axkk."Wtcn^c|^arcf|p|Ukdk 0"Lkflp|}tckeg"ctg^anw"lg^ank o kvqx^apc"Crgpkp ok^c c"lkflp|} ^au|f|Mctrcvum²jq"qdnqwmw⁰Vcm²Cnvc|c"Mexmc|0" Fqmcfc {"ej {d}f"x"r^au"qf"Hkpumc^a"r gu" Rqdcnvm²tgrwdnkm{"*u"x lk o mqw"Nkvx {+."D nqtwumq."Wmtclpw."Oqnf^axkk^c"qdcnvcu^a"r k"Meurkmw⁰ Fcn-|o d^{aa}n o"o f|uvg o"lg"Dqupc^c"Jgteg|qxkpc."Utumq^c" gtp^{aa}Jqt."Cnd^apkg." Ocmgfqpkk." Dwnjctumq^c" gemq^a*Ejx^anc"4229+0"Nctx{"ug"x{um{vw|}x"dcjp "d gj "t{dp|m "c"lg|gt."pc"ngu/ p|ej"o q^angej^cx"o gcpftgej" | gm^a*Lgflgm"3; 93+0

Ogcpft{Uo f²RT}[50]<360XK0/360XK04229."3 0 Quarré PP [37]<80XKK04223."3 0 T{d^{fl}nqw m{RT}[64]<320/480XK04225."3 =480XK0/;0XKK04225."3 0

Haematopota italica Ogkigp."3:26

Gxtqrum "ftwj."x um{v}qf"R{tgpplum²jq"rqnqqvqtqxc"r gu"uv^av{"r k"Ugxgtpf"o" c"Dcnvum²o" oq k.TMx²fumq*Pqtumq" c"Hkpumq"pg o" aTMqmmcf."tqxp fl"Mct²nkgc"À|g o"r k"Dctgpvuqx "oq k+." Rgvtqj tcfumqw"qdcuv"cf"rq"Wtcn" c"Mcurkm0"X um{v}lg"jn^a-gp"x" |g o"fej"uv gfpf" c"lkfpf" Gxtqr {" *x gvp "p mvgt ej"quvtqx "xg"Uv gfqoq "+"."vcm²"x"Vwtgemw0" Ej {d^{fl}pc"Dtkvum ej"quvtqxgej." x"Nqvf{-umw."D nqtwumw."Oqnf^axkk" c"xg"Unqxpumw0"Nctx {" rqrucn"Hqneq²*3;56+0"Ocl^{fl}"qdfqdp²" p^atqm {"pc"xjqfp "uwdvut^av"lcmq"x-gej p {" |fg"wxgfgp²"ftwj {"tqfw"Haematopota)

Arnoltice [1]<4:0XK04225."3 0 gtpqwu{/X'Rqk}[8<360XK0/360XK04229."4 =470XKK0/390XKK04229."7" 0 Horní Pertoltice [14]<360XK0/30XKK04229."4 0 Kunratice [23]<440XK04228."3" 0 Ogcpft{Uo f²RT}[50]<3:0XK04224."3 0 Minkovice [31]<440XK04228."4 0 Pousteká obora [36]<440XK04228."5 0

Haematopota pluvialis *Nkppcgwu."397:+

Nkvg^atp^{fl}"Àfcig<J qtp^{fl}"Rqndpw **Lgflmqx^a3;96+0
Gwtqukd um "ftwj"u"x um{vg o"v²o "x"egn²Gxtqr "fqmmcf{"ej {d^{fl}rqw|g|"D nqtwumc+qf"R{tg/ pglum²jq"rqnqqvqtqxc"r gu" Dtkvum²"quvtqx {"c"gzvt²o p "dqtg^anpf" ^auv"umc^afpk^axum ej"uv^av " *Ncrqumq+cfl"fq"x ejqf^{fl}"Ukd g0"lkfpf"j t^acp^agek"rtqej ^a|"r gu"Vwtgemq."Mxmc|.Mc|cejuv^ap." Vkgp/ujcp" c" p^{fl}w0"lgf^aug"q"r gpc-g g"vwnct²o kg" c"cpvj tczw0"Nctx {"ug"x {x"lgf^{fl}" cuvq" k"fcngm" qf"xqf {"*nqwm {"c"rcuvxkp {"x u"rm {"rqxtejqx ej"fq n"crqf0+*Lgflgm"3;93+0

Arnoltice [1]<4:0XK04225."3 = 330XKK04225."4 0 Bílý Potok [3a,b,c]<340XKK04223."42" .5" =380XK0/60KZ.04227."4; 0 Bukovec PR [4]<350XKK04223."4" = 320/480XK04225."3" =480XK0/;0XKK04225."3" 0 gtpqwu{/X'Rqk}[8<360XK0/360XK04229."3" = 360XK0/30XKK04229."4" 0 Ferdinandov [8]<3:0XK04224."3 0 Jqtpf"NW cp^{fl}" [13]<390XK04225."3 0 Horní Pertoltice [14]<30/470XK04229."4 0 Lk gv^{fl}p"r^{fl}f"Dwmq^aw" [42<390XK04225."4 0 Jizerka [21]<0XKK04223."3 0 N^a|p "Nkdxgtfc" [46<420XK04224."3 0 Nkdtge/Xguge" [48<90XKK04226."3 0 Ogcpft{Uo f²RT}[52<3:0XK04224."3" = 440XK0/3;0XKK04227."33 = 360XK0/30XKK04229."7" 0 Minkovice [31]<440XK04228."6 0 Pqx²"O uv^{fl}"r^{fl}f"Uo tmg o" [55<420XK04224."3" 0 Qnf kejqx"x"J^aHej" [56<3:0XK04225."4 0 Pousteká obora [36]<520XK04223."4" 0 Raspenava [38b]<520XKK04225."34 0 Tc-gnkpk-v "lk|gt{"PRT" [40b]<40XKK04223."6 0 Rudolfov [41]<520XKK04226."3 0 T{d^{fl}nqw m{RT}[64<0/450XKK04225."4 0 Ux vn^a" [44]<3:0XK04224."3 0 TTMqne x^at{dp^{fl}m" [68<340XKK04223."4" = 70/390XK04224."4" = 3/0/4:0XK04224."." = 4:0XK0/320XK04224."34" .3" =30/360XKK0/30XKK04224."8" .3" =30/360XKK04224."3" = 360/490XKK04224."4" 0 TTMrk ^am" [69<420XKK0/50XKK04225."4 0 U Kyselky [50]<420XK0/350XKK04228."3 = 350XKK0/50XKK04228."8" 0 X^argpp "xtej"RT"[73<4:0XKK04223."4 0

Haematopota scutellata *Qnuwhlgx."Oqwejc" ("Ejx^anc."3;86+

Gxtqrum "ftwj" |p^ao "x v-kpqw" |x {"--fej" rqnqj" qf" Rqtwi cnumc" r gu"uv gfpf" Gxtqrw" cfl" rq" Mcurkm0" Ej {d^{fl}xgTMrcp numw."x Pk|q|g o umw."F^apumw."Unqxpumw."Dqup "c" Jgtej qxkp ." pglkfp l-^{fl}o"Dcnm^apw"*Cnd^apkg."Ocmg^afpkg." gemq+."x"Oqnf^axkk" c"D nqtwumw0" Fcn-^{fl}o"d^{fl}n o" o" |vug o"x um{v}lg"Rqdcn^{fl}."Umcpf^apk^axkg" c"ugxgtqxej qf" Gxtqr {"x gvp "Wtcnw"*Ejx^anc"4229+0" Pc" Mxmc |g"ug"x |um{v}wlg"Rqdcn^{fl}."Nctx {"ug"x {x"lgf^{fl}"x"nkvt^anw" jncxp "o cn ej"ngup"fej" xqfp"fej"p^aftfl^{fl}."ogc^aftgej" ^{fl} gm" c"x"o qm cfgej"u"ftp {"quv ke."u^{fl}vkp" c"um r^{fl}kp"*Lgflgm"3;93+0

Bílý Potok [3b]<3:0XKK0/60KZ.04227."3 0 Ogcpft{Uo f²RT}[50]<70/4:0XK04227."3 0 TTMqne x^at{dp^{fl}m" [68<4:0XK0/320XK04224."5 = 320XKK0/30XKK04224."5" 0 TTMrk ^am" c"Uvflqx "xtej" [69<420XKK0/50XKK04225."3 0

Haematopota subcylindrica Rcpf gm²."3: :5

Gwtqukd um "ftwj"u"tq| -^{fl} gp^{fl}o"qf"R{tgppl^{fl}"r gu"uv^av {"r k"Ugxgtpf"o" c"Dcnvum²o" oq k^{*x} gvp " Dtkvum ej"quvtqx ."cng"ej {d^{fl}" |a |pc o | "Ktum²"tgrwdnkm {+."lkfp^{fl}"TMx²fumq."uv gfpf" Gxtqrc."ugxgtpf"

Dcnm^ap."Mcxmc|.Mc|cejuv^ap."Vkgp/Ujcp^cx ejqfpp^UUkdk 0⁰Pc^lkjw^Vwtgemq^c~^ta^p0^X"Gxtqr " ej{d^U"x~ktqm²o²r^auw^qf^Dctgppvqxc^coqg.v²o "egn²Umc^pfkp^axkg."Rqdcn^V"*u^xlk^omqw^Rgv^tqjctcfum²qdcncvc^cNkvx{+^rgu^Dnqtwumq."Wmtclkw^cOqf^axkk^mgtp²ow^ooqk0^Fcn~^fok^oogl^gtcok^xtq|~^fgp^UluqwTMxectumq."Kv^angk."Dqupe^c"Jgtegiqxkpc."Cnd^apkg."Ocmgfpqpk^gc^cgemq^{*}Ejx^anc⁴2229+0⁰Nctx{^ug^x{x^flg^fpc^qdfqdp ej^ddkvqrgej^lcmq^wr^gf^eja^lgl^eej^qftwjw^{*}Lgflgm³;93+0

Arnoltice [1]^c:4:0XK04225."3 0 Bily Potok [3d]^c:430XK04228."3 0TMqne x^t{dp^{fm}}68_<^c:390X0/70XK04224."3 0

\jqfppqgp^fx unghm

Pc⁷⁴jncxp^fejⁿqmcnk^aej^{*}Ajtpg^opcx^fe^ug³⁵fcn~^fok^ffn^fok^kdkvqr{+^xLk|gtum ej^jqt^aej^cpc^{Ht}fn^cpvumw^d{nq^xqdfq^dngv⁴22264229|ctgi^kuvtx^app^egnmg^o48^ftwj "nggfk^Vdc^epkfcg^xr^{vk}tqfgej."eq^fr^gfuvxwlg⁶:.4" 'hcwp{"qx^af " gum²tgrwdnkm{^c75.3" " ge^j0[\]egn^mqx²j^qr^qvw^ftwj |lk~^vp ej^xLk|gtum ej^jqt^aej^cqm^qng^lg^ogwtqukd^um²j^q*52.: ' '+.8^gx^tqrumq/^lrc^fqkdk^um²j^q*45.3" '+.8^gx^tqrum²j^q*45.3" '+.7^rcn^gctm^kem²j^q*3;.4" '+.c³j^qnc^tmvkem²j^q*5.: ' '+tq|~^fgp^UM^pgl^dqjcv~^foⁿqmcnk^ao^{Lk}|gtum ej^jqt^cHt^{fn}c^pvumc[|]ng^fkumc^xum{vw^gng^fk^Vdc^epkfcg^rcv^URT^Ogcp^ft{^Uo^f2^U52^ug³⁵ftwj{.TM^qne x^t{dp^{fm}}68_u³²ftwj{."D^Ufn^Rqvkm⁵"c^cgtp^qwu{^XR^qnk⁸"r^q;"ftw|^fej⁰P^gl^jq^pl~^fftwj^{Tabanus maculicornis}ug^x{um{vqxcⁿpc⁵⁸nqmcnk^aej[.]Haematopota pluvialis pc⁴⁷.Hybomitra distinguenda pc⁴⁵.H. auripila pc³⁹c^{H. bimaculata}pc³⁸nqmcnk^aej⁰P^crtqvk^vq^ow^gzkuvwlg³⁸nqmcnk^vr^qw|g^ulg^fpp^oftwj^go^c8^ftwj^d{nq^fq^mnc^fqx^app^lgp^qo^{pc}lg^fp²nqmcnk^v0^{ftwj}{^qe^jtcp^aum{^x|pc^op².tgur⁰|c^cl^gp²f^qgtx^gp²j^qug^lpc^ow^dg^lq^dte^vn^{ej}T^{*Lgflgm}("Det^va^m4227+.lcm^qpc^r0^ux^{um}{vg^opc^{tc}gn^{kp}kv^fej^rg^fr^qmn^afc^p2^vcz^qp{^Atylotus sublunaticornis^{*}\g^vg^tuv^gf^v.":3:64+.Glaucops hirsutus *Xknngtu."39:;+c^Hybomitra tarandina^{*}N^kppcgwu."397:+.ug^dq^jw^lgn^pgr^qfc^{knq}rtqm^a|cv⁰

Rqf mx^app^UPc~^fr^qx^lpp^qv^lg^rqf mx^qcv^rg^fg^x~^fo⁰Ej^xaⁿq^x*R^ftq^fq^xf^gem^ahcm^wvc^{WM}Rtc^jc+[|]c^rkr^q/o^{fm}{^cmq^pvtw^mx^pl^p*x^tj{^qrtcx^rkr^tcx^qx^p2^jqtmq^rkuw⁰X^lm^wo^d{n^rq^rg^frp^Ok^pkv^gtv^ux^go^mwn^vwt{^gum²tgrwdnkm{^{*}i^{tcp}OM22224549423+0

NKVGTCVWTC

CPFTGGXC^T0^X0³; ;2^cOpre^delitel^licinok^slepnej^{*}Jevropejskaja cast SSSR, Kavkaz i Srednaja Azija+.]Key to nctxcg^qh^jqtug^lkgu..Pewm^qxc^fw^onc."Mkx."394^rr^{*}kp^Twu^ukc^p0^{E J X f N C⁰0³; ;2^cVed^epkfcg^oQ^xa^fq^xkv^f.r^r0⁴:4/5;20^kp^{E J X f N C⁰0⁰*g^fl<^cMt^xucl^fe^fo^qwe^j{^cuw^gek⁻Diptera⁰Hew^c" UUT."ux⁰440^Cec^fg^okc."Rtc^jc."75: "r^r*^{kp}E|ge^j.G^pink^juw^oo⁰0^{E J X f N C⁰0³; ;<^cHc^okn{^Vdc^epkfcg^{.r}r⁰;9/3930^kp<UQ~U^C0⁰*g^fl<^cCatalogue of Palaearctic Diptera, Vol. 5, Athericidae – Asilidae. Cmc^f2^okc^kMk^f.Dw^fcg^u.668^rr⁰E J X f N C⁰0⁴2228<Ved^epkfcg^Nev^tg^{kn}g."3:240^kp<LGFNK MC^N0."UVN^QWMCN^QX^fX⁰("M~FGNC⁰0⁰*g^fl<^cChecklist of Diptera of the Czech Republic and Slovakia. Gng^evt^qpk^ex^gtk^qp³0^jw^rcl|qqnⁱ{0^hpu⁰w^pkd^ouml^fkr^vg^tc^pf^EF/TQO^{*K}UDP":2/;8;84;/2/8+0E J X f N C⁰0⁴2229<Ved^epkfcg^Ukp<RCRG^V0⁰*g^fl<^cFauna Europea: Diptera Brachycera. Xg^tuk^qp³050^Cx^lmc^dng^qqⁿkp^gcv^jw^rcl|y^y0^hcw^pcg^wl^qti^{*}ncu^vw^rfc^vg^qp³;0^kx^l4229+0E J X f N C⁰0⁰("LG^fGM^L0³;8;<K^oo^cw^tg^uvc^{ig}u^qh^Lx^gG^wt^qrg^{cp}J^J{dq^okv^tc^urg^ekg^uq^hv^jg^dko^cew^{nc}vc⁻cp^fo^qpv^{pc}-it^qw^r*F^krv^gtc."Ved^epkfcg+^Folia Parasitol..":38<54;/5690E J X f N C⁰0⁰("LG^fGM^L0³;9<F^krv^gtc^Vdc^epkfcg."J^qtug^Hnk^g.r^r0⁴;7/52;0^kp^PK^NU^UQ^P^C0⁰*g^fl<^cThe aquatic Insects of North Europe 20^Cr^qnm^qD^qmu."U^vg^pvt^wr."F^go^ct^m.662^rr⁰E J X f N C⁰0⁰[^{PGD}Q^TI^N0⁰("O^QW^EJ^CL⁰3;94<V^jg^jqtug^lkgu^qh^Gwt^qrg^{*F}kr^vg^{tc}.Ved^epkfcg+0^Eq^rg^pjc^{ig}p."6; ;r⁰}}}

HQNEQ" I 3" D0" 3; 56<" Quugtxc |kqpk|uwmq|uxkwnrrq"fk" E j t {uq|qpc"* Jcg o cvqrqvc+<kvncck Ogkigp| Mem. Soc. Tosc. Sci. Natl. "66<3/330

LGfiGM" L0" 3; 92<" Nctxcg" cpf" rwrccg" qh" hqwt" Gwtqrccp" E j t {uqru urgekgu" *Fkrvgtc. "Vcdcpkfcg+0" Acta Ent. Bohemoslov. " 89<597/5: 50

LGfiGM" L0" 3; 93<" Nctxgp" wpf" Rwr rgg" fgt" Ct v" J g r v c v q o c" r g m w e g p u *Hcd0+<wpf" xkgt" gwtqr|kue jgp" Ct vgp" fgt" I c w w p i" Jcg o cvqrqvc Ogkigp" *Fkrvgtc. "Vcdcpkfcg+0" Acta Ent. Bohemoslov. "8: <563/5730

LGfiGM" L0" 3; 98<" Dgue jtgkdwpi" fgt" Nctxcg. "Rwr rg" wpf" fgu" O@ppe jgp u" xqp" Jcg o cvqrqvc" eukmkk U |knl0" *Fkrvgtc. "Vcdcpkfcg+0" Acta Ent. Bohemoslov. "95<345/3490

LGfiGM" L0" 3; 99c<" Fguetkrkqpu" qh" hcu v" kpuct" nctxcg" cpf" rwrccg" qh" v j tgg" Gwtqrccp" urgekgu" qh" Vcdcpkfcg" *Fkrvgtc+0" Acta Ent. Bohemoslov. "96<353/3640

LGfiGM" L0" 3; 99d<" Nctxcg" cpf" rwrccg" qh" v j tgg" Gwtqrccp" J {dq o kvtc urgekgu" *Fkrvgtc. "Vcdcpkfcg+0" Acta Ent. Mus. Nat. Pragae. "5; <3; 3/4290

LGfiGM" L0" 3; 99e<" Nctxcg" cpf" rwrccg" qh" v j tgg" Gwtqrccp" Vcdcpwu urgekgu" *Fkrvgtc. "Vcdcpkfcg+0" Acta Ent. Mus. Nat. Pragae. "5; <4; 5/5290

LGfiGM" L0" 3; 99f<" Mg {u" vq" v j g" hcu v" kpuct" nctxcg" cpf" rwrccg" qh" uq o g" Gwtqrccp" Vcdcpkfcg" *Fkrvgtc+0" Acta Ent. Bohemoslov. "96<55; /5660

LGfiGM" L0" 3; 99g<" Nctxcg" cpf" rwrccg" qh" Gwtqrccp" urgekgu" Cv {nqwu" uwdnwpvcqektpk * \ g w g t u v f v. "3: 64+< *Fkrvgtc. "Vcdcpkfcg+0" Acta Ent. Mus. Nat. Pragae. "5; <5; ; /6240

LGfiGM" L0" 3; 99h<" C" rkevqtkcn" mg {vq" v j g" hcu v" kpuct" nctxcg" qh" uq o g" Gwtqrccp" Vcdcpkfcg" *Fkrvgtc+0" Acta Ent. Mus. Nat. Pragae. "5; <777/7790

LGfiGM" L0" 3; : 2c<" \ qq i g q i t c r j { " q h" u q o g" k t e p k p" u r g e k g u" q h" j q t u g" h k g u" * F k r v g t c. " V c d c p k f c g + 0" F k r v g t q n q i k e c" D q j g / o q u n q x c e c. " X q n 0" 40" Acta Univ. Carol., Biol. "3; 99<539/5450

LGfiGM" L0" 3; : 2d<" Qx" a f q x k v" 6" Vcdcpkfcg. " r r 0" 637/6440" k p < T Q | M Q T M P " T 0" * g f 0 + < M n f " x q x p f e j " n c t x g" j o { | w 0" | I d e n - v k L e c v k a p" m g { " v c s w c k e" n c t x c g" q h" k p u g e u v. " 0" C e c f g o k c. " R t c j c. " 743" r r * k p" E | g e j + 0

LGfiGM" L0" 3; : : <" P q v q" q p" t g u w n n u" q h" E | g e j q u n x c m / k t e p k c p" g p i q o q n q i k e c n" g z r g f k v k q p u" v q" k t c p" 6" Vcdcpkfcg" *Fkrvgtc. " r r 0" 3; : /4230" k p < Q N G L P ~ G M L 0" * g f 0 + < O g f k e c n" c p f" X g v g t k p c t { " F k r v g t q n q i { 0" P r o c. I n t. C o n f e r., " P q x 0" 52" 6" F g e 0" 6. " 3; : 9. " k p u v" q h" R e t c u k q n 0" U C X " J q w u g" q h" V g e j p k e u" U X V U. " g u m" 2" D w f l q x k e g 0

LGfiGM" L0" 3; : 4<" T g x k u k q p" q h" e q m g e v k p u" q h" j q t u g" h k g u" * F k r v g t c. " V c d c p k f c g + 0" h e w p k u v e u. " c f f k v k q p u. " i t k f / o c r r k p i. " p g y" t g e q t f u" * r c t v" 3+0" c u l" P" a" 0" O w / 0. " c f c" R" t q f q x l. " 382<334/3360

LGfiGM" L0" 3; : 7<" T g x k u k q p" q h" e q m g e v k p u" q h" j q t u g" h k g u" * F k r v g t c. " V c d c p k f c g + 0" h e w p k u v e u. " c f f k v k q p u. " i t k f / o c r r k p i. " p g y" t g e q t f u" * r c t v" k k + 0" c u l" P" a" 0" O w / 0. " c f c" R" t q f q x l. " 386<346/3480

LGfiGM" L0" 3; : : <" Vcdcpkfcg" 0" k p < T Q | M Q T M P " T 0" (" X C J C T C L 0" * g f u + < " F k r v g t c" q h" v j g" R" a" n c x c" D k q u r j g t g" T g u g t x g" q h" W P G U E Q" k 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., B i o l. " ; : * 3; : : + < 353/35: 0

LGfiGM" L0" (" D C T V f M" O 0" 4222<" Vcdcpkfcg" 0" k p < D C T V f M" O 0" (" X C J C T C L 0" * g f u + < " F k r v g t c" k p" c p" k p f w u t k c m { " C h h g e v g f" T g i k a p" * P q t v j / Y g u g t p" D q j g o k c. " D n k p c" c p f" F w e j e q x" G p x t q p u + " k 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., B i o l. " 326<355/3590

LGfiGM" L0" (" D C T V f M" O 0" 4227<" Vcdcpkfcg" * q x" a f q x k v +. " r r 0" 498/4990" k p < H C T M C " L 0. " M T f N" F 0" (" T M Q T R" M" O 0" * g f u + < g t x g p" u g / p c o" q j t q 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 v 0" T g f" h k u v" q h" v j t g c v g p g f" u r g e k g u" k p" v j g" E | g e j" R e p u b l i c. I n v e r t e b r a t e s" 0" C i g p w t c" q e j t c p { " r" f t q f { " c" m t c l k p { " T. " R t c j c. " 982" r r * k p" E | g e j" c p f" G p i n k u j + 0

LGfiGM" L0" " D C T V f M" O 0. " I T G I Q T" V 0" (" M W D" M" 0" 4227<" Vcdcpkfcg. " r r 0" 344/3490" k p < D C T V f M" O 0" (" M W D" M" 0" 0" * g f u + < " D i p t e r a o f P o d y j i N a t i o n a l P a r k a n d i t s E n v i r o n s" 0" g u m" 1" | g o f n u m" a" w p k x g t | k v c" x" R t c | g. " 654" r r 0

LGfiGM" L0" (" L G f i M Q X f" X 0" 3; 9: <" U q o g" t g u w n n u" q h" i t k f / o c r r k p i" q h" j q t u g" h k g u" * F k r v g t c. " V c d c p k f c g + k p" E | g e j q u n q x c m c k. " r r 0" 33; /3640" k p < Q T U \ f I J" k 0" * g f 0 + < " D i p t e r o l o g i c a B o h e m o s l o v a c a. " X q n 0" 30" X g f c. " D t e v k u n c x c 0

LGfiMQX f" X 0" 3; 96<" U q w c u p" " u w x" h c w p k u v e m" 2" j q" x / m w o w" g n g f k" q x" a f q x k v e j" * k p u g e v c. " F k r v g t c. " V c d c p k f c g + p c" A / g o" U U T 0" | R t g u g p v" u v c v g" q h" h c w p k u v e" t g u g t e j" q h" j q t u g" h k g u" * k p u g e v c. " F k r v g t c. " V c d c p k f c g + q p" v j g" v g t t k v q t { " o f C z e c h o s l o v a k i a" 0" F k u g t v c k p v" v j g u k u. " R g f c i q i k e c n" H c e w n v. " E j c t n g u" W p k x g t u k v { " R t c j c. " ; : " r r 0" * k p" E | g e j. " w p r w d n k u j g f + 0

NGENGTES" O 0" 3; 82<" T" 2" x k u k q p" u { u v 2" o c v k s w g" g v" d k i 2" q i t c r j k s w g" f g u" Vcdcpkfcg" *Fkrvgtc+< r c n 2" c t e v k s w g u 0" X q n 0" 3<" R e p i q p k p c g" g v" E j t { u q r k p c g 0" O 2" o 0" k p u v 0" 0" U e k 0" p c v 0" D g n i 0. " 85<3/990

NGENGTES" O 0" 3; 89<" T" 2" x k u k q p" u { u v 2" o c v k s w g" g v" d k i 2" q i t c r j k s w g" f g u" Vcdcpkfcg" *Fkrvgtc+< r c n 2" c t e v k s w g u 0" X q n 0" 4<" V e d c p k p c g 0" O 2" o 0" k p u v 0" 0" U e k 0" p c v 0" D g n i 0. " : 2*3; 88+<3/4590

OQWE J C L 0" 3; 98<" J q t u g / h k g u" * F k r v g t c < V c d c p k f c g + q h" v j g" Y q n f 0" U { p q r v k e" E c v n c q i w g 0" Acta Ent. Mus. Nat. Pragae. " U w r r n 0" 9<3/53; 0

OQWE J C L 0" (" E J X f N C" O 0" 3; 77<" T g x k u g" q x" a f q x k v e j" * F k r v 0. " V c d c p k f c g + " g u m q u n q x g p u m c" * k 0" a" u v o < E j t { u q r k p c g + 0" * T g x k u k q p" f g t" V c d c p k f g p" * F k r v 0 + < f g t" V u e j e j q u n q y c m g k" * k 0" V g k n < E j t { u q r k p c g + 0" Z o o l. E n t o m o l. L i s t y. " D t p q. " 6<449/45: " * k p" E | g e j. " I g t o c p" u w o o 0 + 0

OQWE J C L0 (" E J X f N C " O0 3 ; 78c < M " r q | p a p f " q x a f " * F k r v 0 . " V d e c p k f c g + " U n q x g p u m c 0 * C " e q p v t k d w v k a p " v q " v j g " m p q y n g f i g " q h " j q t u g / l k g u " * F k r v 0 . " V d e c p k f c g + " k p " U n q x c m k c 0 / A c t a F a u n . E n t . M u s . N a t . P r a g a e . " n c " 363 / 368 " * k p " G p i n k u j . " E | g e j " k p v t q f 0 + 0

OQWE J C L0 (" E J X f N C " O0 3 ; 78d < T g x k u g " q x a f q x k v e j " * F k r v 0 . " V d e c p k f c g + " g u m q u n q x g p u m c " * K K 0 " a u v " J c g o c v q / r q v k p c g + 0 * T g x k u k q p " f g t " V d e c p k f g p " * F k r v g t c + " f g t " V u e j e j q u n q y c m g k " * K X 0 " V g k n c " J c g o c v q r q v k p c g + 0 " Z o o l . L i s t y . " D t p q . " 7 < 47 ; / 492 " * k p " E | g e j . " I g t o c p " u w o o 0 + 0

OQWE J C L0 (" E J X f N C " O0 3 ; 78e < T g x k u g " q x a f q x k v e j " * F k r v 0 . " V d e c p k f c g + " u d f t m { " O q t c x u m 2 j q " o w u g c 0 * T g x k u k q p " f g t " D t g o u g p " * F k r v 0 . " V d e c p k f c g + " c w u " f g t " U c o n w p i " f g u " O @ j t k u e j g p " O w u g w o u 0 " A c t a M u s . M o r 0 . " 63 < : 9 ; / 4 " * k p " E | g e j . " I g t o c p " u w o o 0 + 0

OQWE J C L0 (" E J X f N C " O0 3 ; 78f < T g x k u g " q x a f q x k v e j " * F k r v 0 . " V d e c p k f c g + " u d f t m { " X k o o g t q x { 0 " * T g x k u k q p " f g t " V d e c p k f g p " * F k r v g t c + " c w u " C p 0 " X k o o g t i u " U c o n w p i + 0 " R f 0 " U d q 0 " Q u v t c x 0 " m t e l g . " Q r c x c . " 39 < 369 / 373 " * k p " E | g e j . " I g t o c p " u w o o 0 + 0

OQWE J C L0 (" E J X f N C " O0 3 ; 7 : c < T g x k u g " q x a f q x k v e j " * F k r v 0 . " V d e c p k f c g + " g u m q u n q x g p u m c " * K K 0 " a u v < V d e c p k p c g < V d e c p w u u 0 " u t 0 + 0 * T g x k u k q p " f g t " V d e c p k f g p " * F k r v g t c + " f g t " V u e j e j q u n q y c m g k " * K K 0 " V g k n c < V d e c p k p c g < V d e c p w u " u 0 " u t 0 + 0 " Z o o l . L i s t y . " D t p q . " 9 < 3 ; / 4 3 ; 9 " * k p " E | g e j . " I g t o c p " u w o o 0 + 0

OQWE J C L0 (" E J X f N C " O0 3 ; 7 : d < " w t " M g p p v p k u " f g t " I c w w p i " V j g t k r n g e v g u \ g m g t " 3 : 64 " * F k r v g t c . " V d e c p k f c g + 0 " A c t a E n t . M u s . N a t . P r a g a e . " 54 < 793 / 7 : 4 0

OQWE J C L0 (" E J X f N C " O0 3 ; 7 ; e < M " r q | p c p f " q x a f q x k v e j " * F k r v 0 . " V d e c p k f c g + " x " T { e j n g d u m e j " j q t a e j 0 * " w t " G t m g p p v p k u " f g t " D t g o u g p " * F k r v 0 " V d e c p k f c g + " f g u " T g k e j g p u v k p g t " I g d k t i g u + . " r 0 " 523 / 527 0 " k p < T { e j n g d u m 2 " j q t . " U d q t p f m " r t c e f " q r " f t q f p e j " r q o t g e j . " Q u v t c x c " * k p " E | g e j . " I g t o c p " u w o o 0 + 0

OQWE J C L0 (" E J X f N C " O0 3 ; 7 ; d < M " r q | p a p f " q x a f q x k v e j " O q t c x { " c " U n q x g p u m c 0 * " w t " M g p p v p k u " f g t " V d e c p k f g p / H w p c " O @ j t g p u w p f " f g t " U n q y c m g k + 0 " c u l " U n g / 0 " O w u 0 . " * C + . " Q r c x c . " : < 33 ; / 348 " * k p " E | g e j . " I g t o c p " u w o o 0 + 0

OQWE J C L0 (" E J X f N C " O0 3 ; 7 ; e < T g x k u g " q x a f q x k v e j " * F k r v 0 . " V d e c p k f c g + " g u m q u n q x g p u m c " * K X 0 " a u v < V d e c p k p c g 4 + 0 * T g x k u k q p " f g t " V d e c p k f g p " * F k r v g t c + " f g t " V u e j e j q u n q y c m g k " * K X 0 " V g k n c < V d e c p k p c g 4 + 0 " Z o o l . L i s t y . " D t p q . " : < 383 / 396 " * k p " E | g e j . " I g t o c p " u w o o 0 + 0

OQWE J C L0 (" E J X f N C " O0 3 ; 7 ; f < \ y g k v t " D g k v t c i " | w t " M g p p v p k u " f g t " I c w w p i " V j g t k r n g e v g u \ g m g t " 3 : 64 " * F k r v g t c . " V d e c p k f c g + 0 " A c t a E n t . M u s . N a t . P r a g a e . " 55 < 325 / 327 0

OQWE J C L0 (" E J X f N C " O0 3 ; 83 < M " r q | p a p f " q x a f q x k v e j " g u m q u n q x g p u m c 0 * " w t " M g p p v p k u " f g t " V d e c p k f g p / H w p c " f g t " V u e j e j q u n q y c m g k . " F k r v g t c . " V d e c p k f c g + 0 " c u l " U n g / 0 " O w u 0 . " * C + . " Q r c x c . " 32 < 79 / 83 " * k p " E | g e j . " I g t o c p " u w o o 0 + 0

OQWE J C L0 (" E J X f N C " O0 3 ; 86 < P q v g u q p v j g i g p w u V j g t k r n g e v g u \ g m g t . " 3 : 64 " * F k r v g t c . " V d e c p k f c g + 0 " R q | p a o m { " m " t q f w " V j g t k r n g e v g u " \ g m g t . " 3 : 64 " * F k r v g t c . " V d e c p k f c g + 0 " c u l " u l " U r q n 0 " G p v q o q n 0 . " 83 < 322 / 327 0

OQWE J C L0 (" E J X f N C " O0 3 ; 89 < D g u e j t g k d w p i " f g u " O @ p p e j g p u x p " J c g o c v q r q v c u e w g m c v c " p g d u v " D g o g t m w p i g p " A d g t " f k g " I c w w p i " J c g o c v q r q v c " O g k i 0 " k p " f g t " V u e j e j q u n q y c m g k " * F k r v g t c . " V d e c p k f c g + 0 " A c t a E n t . B o h e m o s l o v 0 . " 86 < 446 / 453 0

OQWE J C L0 (" E J X f N C " O0 3 ; 8 ; < F k g " I c w w p i " J { d q o k v t c " G p f g t n g k p . " 3 ; 44 " k p " f g t " V u e j e j q u n q y c m g k " * F k r v g t c . " V d e c p k f c g + 0 " A c t a F a u n . E n t . M u s . N a t . P r a g a e . " 34 < 485 / 4 ; 6 0

OQWE J C L0 (" E J X f N C " O0 3 ; 8 ; < \ w t " M g p p v p k u " f g t " D t g o u g p i c w w p i " C v { a q w u " Q u v g p / U c e m g p " k p " f g t " V u e j e j q u n q y c m g k " * F k r v g t c . " V d e c p k f c g + 0 " A c t a E n t . B o h e m o s l o v 0 . " 88 < 543 / 54 ; 0

QNUWHLGX " P 0 I 0 . " OQWE J C L0 (" E J X f N C " O0 3 ; 86 < E j t { u q | q p c " u e w g m c v c " u r 0 " p 0 " c w u " O k w g n g w t q r c " * F k r v g t c . " V d e c p k f c g + 0 " c u l " u l " U r q n 0 " G p v q o q n 0 . " 83 < 4 : 6 / 4 : 8 0

QNUWHLGX " P 0 I 0 . " OQWE J C L0 (" E J X f N C " O0 3 ; 89 < \ w t " V e z q p q o k g w p f " X g d t g k v w p i " f g t " g w t q r @ k u e j g p w p f " m n g k p / c u k v k u e j g p " C t v g p " f g t " V d e c p w u " d q x k p w u / I t w r r g " * F k r v g t c . " V d e c p k f c g + 0 " A c t a E n t . B o h e m o s l o v 0 . " 86 < 525 / 535 0

RTWPGT " N 0 (" O " M C " R 0 " 3 ; ; 8 < U g | p c o " q d e f " c " l g l k 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 m f " r t q u f " q x 2 " o c r q x " p " h w p { 0 " N k u v " q h " u g v n g o g p w " 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 e k v g f " o c r " L g n f " e q f g u " h a t " h w p k u v k e " i t k f " o c r r k p i " u { u g o + 0 " K l a p a l e k i a n a , 54 " * U w r n 0 < 3 / 337 " * k p " E | g e j . " G p i n k u j " u w o o 0 + 0

UQDQNGXC " T 0 I 0 . " D Q F T Q X C " W 0 F 0 " (" M K T R K E J P K M Q X C " X 0 C 3 ; 96 < " J c v e j k p i " u k u g " q h " i c f l k u " * F k r v g t c . " V d e c / p k f c g + " k p " v j g " p q t v j " q h " R t k o q t { g " v g t t k v t { 0 " H w p c " c p f " G e a q i { " q h " v j g " F k r v g t c p u " q h " v j g " U q x k g " H c t " G e u 0 " P r o c . B i o l . I n s t 0 . " 3 : " * 344 < 323 / 33 : " * k p " T w u u k e p . " G p i n k u j " u w o o 0 + 0

XK O O G T " C 0 3 ; 35 < U g | p c o " g u m 2 j q j o { | w " f x q w m " f f n 2 j q " * E c v n q i w u " F k r v g t q t w o + 0 " N k u v " q h " E | g e j " H n k u " * E c v n q i w u " F k r v g t q t w o + 0 " G p v q o q n i k e m " . " < 3 / ; ; 0 " g u m a " u r q n 0 " g p v q o q n i k e m a . " R t c j c " * k p " E | g e j + 0

XQPK " M C " R 0 " 422 : < G p v q o q n 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 u m c " x " h v g e j " 4222 / 4229 0 * G p v q o q n i k e m " u w t x g { " q h " 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 " k p " 4222 / 4229 + 0 " U d q t p 0 " U g x g t g u 0 " O w 0 . " R f 0 " X f f . " N k d g t g e . " 48 < 5 / 34 " * k p " E | g e j . " G p i n k u j " u w o o 0 + 0

XQPK " M C " R 0 (" X K 0 " f M " T 0 " 422 : < \ a " m n 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 u m c 0 " * I g p t c n " e j c t c e 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 0 " U g x g t g u 0 " O w 0 . " R f 0 " X f f . " N k d g t g e . " 48 < 35 / 55 " * k p " E | g e j . " G p i n k u j " u w o o 0 + 0

UWO OCT [

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