

**Zabrus (Pelor) skoupyi sp. nov. (Coleoptera: Carabidae) from Greece****Zabrus (Pelor) skoupyi**ur0"pqx0"\*Eqngqrvgtc<"Ectcdkfcg+|" gemc

Lk ¶" J GLMCN

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**Taxonomy, Coleoptera, Carabidae, Zabrinii, Zabrus, new species, distribution, Palaearctic region**

**Abstract.** *Zabrus (Pelor) skoupyi* ur0"pqx0"htq o"pqtvj y guvgtp" I tggeg"ku" fguetkdgf." Łiwtgf." cpf" eq o rctgf" ykv" tgcvcgf" Dcncmcp" urgekqu" qh" vjg" uwdi gppwu" *Pelor* Bonelli, 1810. The new species lives in the Grammos Oros Mountains in the alpine meadows at an altitude of 2000–2200 m a.s.l. *Zabrus (P.) albanicus* Crhngdgem."3; 26" u0"ncv0"ku" tgeqtf gf" as new for Greece. New data on the distribution of *Z. (P.) aetolus* Schaum, 1864 s. lat., *Z. (P.) brevicollis* Schaum, 1857 and *Z. (P.) peristericus* Crhngdgem."3; 23" atg ptegsptgd0

## INTRODUCTION

Gki jv"vczc"\*urgekqu"qt"uwdurgekqu+"qh"vjg"uwdi gppwu"*Pelor*"Dqpqgm."3; 32"qh"vjg"i gppwu"*Zabrus* Enccktxkmg."3; 28"ctg"mpqyp"htq o"eqpvkppgvnc"pqtvj y guvgtp" I tggeg"\*Htgwfg"3; : ; +"*Z. aetolus matejkai* Oc cp."3; 62"\*Xgt o kqp"Qtqu"Oqwpvckpu+="*Z. aetolus purkynei* Oc cp."3; 62"\*v{rg"nqecnkv{"kp"Oqwpv"McI o cm cncp"qp"vjg"dqtfgt"dgvyggp" I tggeg"cpf"vjg"Trgrwdnke"qh"Ocegfq-nia); *Z. brevicollis* Schaum, 1857 (northwestern and central Greece); *Z. ganglbaueri ganglbaueri* Crhngdgem."3; 28"\*Cndcpkc"cpf"pqtvj y guvgtp" I tggeg+="*Z. graecus subtilis* Schaum, 1862 (northwestern and central Greece); *Z. incrassatus* \*Cj tgp."3; 36+\*"Dcncmcp"Rgpkpuwnc+="*Z. peristericus* Crhngdgem."3; 23"\*Ncm o qu"Qtqu"Oqwpvckpu+; apf *Z. spinipes insignis* G. Müllngt."3; 54"\* I tggeg+0" Cp"cf fkvkqpcn"urgekqu"qh"vjg"uwdi gppwu"*Pelor* from the mentioned area is fguetkdgf" dgnqy0" Cnuq."cpqvjgt"urgekqu"qh"vjku"uwdi gppwu"ku"tgeqtf gf"htq o" I tggeg" hqt"vjg"Łtut" time in this paper.

## OCVGTĶCN"CPF" OGVJQFU

Vjg"urgek o gppu" qh"pgy"urgekqu"ctg" fgrqukvf"kp"vjg" hqmqy kpi" eqmgevkkpu<eqm0" I 0" Fwdcwnv."Ucxkip{/uwt/Qtig." Htcpeg="eqm0"Ł0" J glmcn. Mtcunkeg."E|gej"Trgrwdnke="eqm0"R0" J tw-c."Ucctnqkwu." I gt o cp{"=eqm0" M0" Qtu|wnkm."Ht fgm/O"ŷuvgm." E|gej"Trgrwdnke="eqm0"X0" Umqwr . "fiknkc."E|gej"Trgrwdnke="eqm0"R0"ŷv r"p gm."Mncfpp."E|gej"Trgrwdnke

Ogeuwtg o gppu" ygtg" o c f g" ykvj" c" ODU632" uvtgq" o ketqueqrg" cv" o c i p k Łecvkqpu" qh": "vq"78 0" Ogeuwtg o gppu" qh" dqf {" rctvu" cpf" dqf {" tcvkq" wugf" kp" vjg" vgzv" ygtg" vcmgp" cu" hqmqy y u<vqvcn" ngp i vj" ?" ngp i vj" o gcuwtgf" htq o " cpvgtkt" o cti i kp" qh" ncdtw o " vq" gn {vtqp" crgz=" ngp i vj" qh" o g f kcp" nqdg" \*rgpku+ ?" ngp i vj" qh" o g f kcp" nqdg" kp' fqtucn" xkg y=" y kfvj" qh" o g f kcp" nqdg" \*rgpku+ ?" o czk o cn' y kfvj" qh" o g f kcp" nqdg" kp' fqtucn" xkg y=" tcvkq" qh" y kfvj" lnp i vj" qh" r tqpqw o" ?" tcvkq" qh" o czk o cn' y kfvj" qh" r tqpqw o lnp i vj" qh" r tqpqw o" o gcuwtgf" cnqpi" o kf/nkpg=" tcvkq" qh" cpvgtkt" o cti i kp' rquvgtkt" o cti i kp" qh" r tqpqw o" ?" tcvkq" qh" y kfvj" qh" r tqpqw o" dgvyggp" cpvgtkt" cpi ngul" y kfvj" qh" r tqpqw o" dgvyggp" rquvgtkt" cpi ngu=" tcvkq" qh" ngp i vj" l y kfvj" qh" gn {vtc" ?" tcvkq" qh" ngp i vj" qh" nqpi gt" gn {vtqp" o gcuwtgf" htq o " ducun" dqtfgt" vq" crgz l o czk o cn' y kfvj" qh" dqvj" gn {vtc" eq o dkpgf=" tcvkq" qh" ngp i vj" l y kfvj" qh" crgz" qh" o g f kcp" nqdg" \*crgz" qh" rgpku+ ?" tcvkq" qh" ngp i vj" qh" crgz" o gcuwtgf" htq o " crkecn" dqtfgt" qh" l pgtpcn" uce" vq" vkr" qh" o g f kcp" nqdg l o czk o cn' y kfvj" qh" crgz" kp' fqtucn" xkg y0

*Zabrus (Pelor) skoupyi sp. nov.*

\*Hkiu"367."32."33+

**Type material.** J qnqv { r g x . "ncdgnngf"ō I t̄ Oceg f 0. "Cgvq o knkvuc"ō I t c o qu" o vu 0. 450804226." cnrkp."Umqwr "ng i 0ō."eqmngv f "kp"pqt v j y guvgt p" I t ggeg."cv"v j g"dqf fgt"dg v y ggp"Grktwu"cpf" Yguv" Oceg f qpkc" r gtr j g t k g u . " I t c o o qu" Qtqu" Oqwpvckpu." pqt v j " qh" Cgvq o knkvuc." cnrkpg" o g c f q y u ." w p f g t " u v q p g " p g c t " u p q y / L g n f . " e c l " 4 3 2 2 " o " c t u t n l " \* H k i 0 " 3 " c p f " X l " U m q w r . " r g t u 0 " e q o o 0 + . " e c l " 6 2 A 4 2 I P . " 4 2 A 7 2 I G . " e q m 0 " X l " U m q w r 0 " R c t c v { r g u " P q u 3 6 8 . 6 " , 2 . " n c d g n n g f " ō I T G G E G " q e e l . " I t c o o q u " O v u 0 . " C g v q o k n k v u c " g p x l . " 4 ; 0 x l 4 2 2 3 . " c n r k p . " 4 2 2 2 6 4 4 2 2 " o . " U 0 " D g p g f k m v " n g i 0 ō . " 5 " m o " p q t v j y g u v " q h " C g v q o k n k v u c . " o q w p v c k p " t c p i g . " g c u v g t p " u n q r g . " w p f g t " u v q p g u " p g c t " u o c m n " u p q y / L g n f u " \* U 0 " D g p g f k m v . " r g t u 0 " e q o o 0 + . " e q m 0 " L 0 " J g l m c n ; N q s 9 6 3 2 , 4 , 2 . " u c o g f c v c " c u " P q u 3 6 8 . " e q m 0 " X l " U m q w r = " P q u 1 3 - 1 4 , 2 , same data as Nos 1-6, coll. G. Dubault; Nos 15-17, 2 , 1 , labelled "Greece, Kq" a p k p c . " O 0 " I t c o o q | . " C g v q o k n k v u c . " 4 ; 0 7 0 4 2 2 3 . " 4 2 2 2 " o . " R 0 " J t w u c " n g i 0 ō . " e q m 0 " R 0 " J t w - c = " P q u 3 : 6 4 ; " 8 , 4 . " u c o g f c v c " c u " j q n q v { r g . " e q m 0 " X l " U m q w r = " P q u 5 2 6 5 3 , 3 , 1 , same data as holotype, eqm 0 " L 0 " J g l m c n = " P q u 5 4 6 5 4 , 3 , 2 . " n c d g n n g f " ō I t̄ Oceg f 0. " Cgvq o knkvuc"ō I t c o qu. " 3 6 0 8 0 4 2 2 8 . " U m q w r " n g i 0 ō . " e q m 0 " X l " U m q w r = " P q u 5 7 6 5 8 , 3 , 1 . " n c d g n n g f " ō I t̄ Oceg f 0. " Cgvq o knkvuc"ō I t c o o q u . " 3 6 0 8 0 4 2 2 8 . " m v r a p g m " n g i 0 ō . " e q m 0 " R 0 " m v r a p g m = " P q u 5 9 6 5 8 , 3 , 1 . " n c d g n n g f " ō I T G G E G " d q t 0 " q e e l . " I t c o o q u " o v u 0 . " C g v q o k n k v u c . " 8 0 8 0 4 2 2 : . " 4 3 2 2 " o . " n i v 0 " Q t u | w n k m ō , e q m 0 M 0 Q t a z w i k h 0

**Description.** Y k p i n g u u " u r g e k g u " y k v j " o g f k w o / u k | g f " c p f " t g n c v k x g n { " p e t t q y " d q f { " \* H k i 0 " 4 + 0 " V q v c n " n g p i v j " 3 4 0 ; 6 3 6 0 7 " o o . " o q u v n { " 3 5 0 3 6 3 5 0 7 " o o \* j q n q v { r g " 3 6 0 2 " o o . " c x g t c i g " 3 5 0 7 " o o . " n " ? " 5 ; + 0 " F q t u c n " u k f g " f c t m " d t q y p 0 " N e d t w o " t g f / d t q y p " v q " f c t m " d t q y p 0 " F q t u c n " u k f g " u j k p { " k p " o c n g u " c p f " y k v j " u n k i j v " n w u v t g " v q " f w n n " y k v j " g n { v t c " n g u u " u j k p { " v j c p " j g c f " c p f " r t q p q w o " k p " h g o c n g u 0 " X g p v t c n " u k f g " t g f / d t q y p " v q " f c t m " d t q y p 0 " O c p f k d n g u " t g f / d t q y p " v q " f c t m " d t q y p 0 " C p v g p p c g " c p f " n g i u " t g f / d t q y p " v q " d t q y p 0 " O c z k m n c t { " c p f " n c d k c n " r c n r k " r e n g " t g f / d t q y p " v q " t g f / d t q y p 0

J g c f " v j k e m g p g f . " u r c t u g n { " v q " f g p u g n { " c p f " x g t { " L p g n { " r w p e v c v g \* r w p e v c v k p " x k u k d n g " k p " 5 2 " o c i p k L e c v k q p + " y k v j " g u " u j q t v " c p f " u n k i j v n { \* k p " j q n q v { r g + " v q " o c t m g f n { " e q p x g z 0 " C p v g t k q t " o c t i k p " q h " n c d t w o " y k v j " u k z " u g v k h g t q w u " r w p e v t w u 0 " C p v g t k q t " r c t v " q h " e n { r g w u " y k v j " c t e w c v g " e c n n w u 0 " H t q p v c n " h w t q y u " u j q t v . " o q u v n { " p e t t q y " c p f " u j c m q y 0 " C p v g p p c g " t g c e j k p i " d c u g " q h " r t q p q w o " y j g p " t g e n k - p g f 0 " C p v g p p q o g t g " 3 " x g t { " d t q c f 0 " O g p w o " y k v j " u k o r n g " \* k 0 g 0 " p q v " d k L f + . " t q w p f g f " \* g z e g r v k q p c n n { " t g e v c p i w n e t + " c p f " d t q c f " o g f k c p " v q q v j 0

R t q p q w o " v t c p u x g t u g \* " t c v k q " q h " y k f v j l n g p i v j " ? " 3 0 7 8 6 3 0 8 8 . " j q n q v { r g " 3 0 8 4 + . " u v t q p i n { " e q p x g z . " y k f g u v " d g j k p f " o k f f n g . " o c t m g f n { " p e t t q y g f " v q y c t f " c p v g t k q t " c p i n g u \* " t c v k q " q h " c p v g t k q t " o c t i k p l r q u v g t k q t " o c t i k p " ? " 2 0 9 6 6 2 0 : 2 . " j q n q v { r g " 2 0 9 9 + . " n e v g t c n " o c t i k p u " u n k i j v n { " e q p x g z \* " k p " j q n q v { r g + " v q " u v t c k i j v " d g h q t g " r q u v g t k q t " c p i n g u 0 " C p v g t k q t " o c t i k p " q h " r t q p q w o " x g t { " u j c m q y n { " g o c t i k p e v g . " c p v g t k q t " c p i n g u " u n k i j v n { " r t q v t w f k p i . " t q w p f g f 0 " R q u v g t k q t " c p i n g u " o c t m g f n { " \* k p " j q n q v { r g + " v q " u n k i j v n { " q d w u g . " y k v j " c r g z " u j q t v n { " t q w p f g f 0 " R t q p q v c n " d c u g " u j c m q y n { " g o c t i k p e v g \* " g z e g r v k q p c n n { " c n o q u v " u v t c k i j v " k p " r c t e v { r g " P q " 5 2 + 0 " k p p g t " d c u e n " k o r t g u u k p p " u j c m q y " c p f " y k f g \* " k p " j q n q v { r g + " q t " c d u g p w 0 " Q w v g t " d e u c n " k o r t g u u k p p " c d u g p w 0 " C p v g t k q t " r c t v " q h " r t q p q w o " u r c t u g n { " v q " f g p u g n { " c p f " L p g n { " r w p e v c v g 0 " N e v g t c n " o c t i k p " q h " r t q p q w o " p e t t q y n { " f c w g p g f \* " f c w g p k p i " o q f g t c v g n { " y k f g p g f " r q u v g t k f + . " x g t { " u r c t u g n { " c p f " L p g n { " r w p e v c v g . " y k v j q w v " u g v c 0 " R t q p q v c n " d c u g " f g p u g n { " v q " u r c t u g n { " \* k p " j q n q v { r g + " c p f " L p g n { " v q " e q t u g n { " r w p e v c v g 0 " N e v g t c n " d g c f " q h " r t q p q w o " p e t t q y n { " p q " v j k e m g p g f 0 " G r k r n g w t q p " q h " r t q p q w o " u o q q v j \* " o q u v n { + " q t " x g t { " u r c t u g n { " c p f " L p g n { " r w p e v c v g 0

G n { v t c " t g n c v k x g n { " p e t t q y " \* y k f v j " ? " 7 0 5 6 8 0 5 " o o . " j q n q v { r g " 8 0 2 " o o + " c p f " g n q p i c v g \* " t c v k q " q h " n g p i v j l y k f v j " ? " 3 0 6 : 6 3 0 7 9 . " j q n q v { r g " 3 0 7 5 + . " x g t { " u v t q p i n { " e q p x g z . " f g e n k x k v { " q h " g n { v t c " d g h q t g "



Hki0°30'Ocr"qh" I tggeg"kp"fecvki"nqecnkv{"qh"Zabrus skoupyi sp. nov.  
 Qdt0°30'Ocrc" gemc"u"x{"|pc gpqw"nqmcnkvw"Zabrus skoupyi sp. nov.

crgz"uvgr"vq"cn o quv" xgtvkecn"kp"ncvgtcn" xky0"kpvgtxcnu"unki j vn {"eqpxgz"\*kp" j qnv {"rg+"qt" i cv0" Uvtkcg"fkuvkpev."o qfgtcvgn {"fggr gpgf."xgt {"Lpgn {"\*kp" j qnv {"rg+"vq" Lpgn {"rwpevcvg0" Tqy"qh"ugvk- hgtqwu"rwpevwtgu"kp"vutkc":\*qt"kp"gn {"vtcn"kpvgtxcn";+"o quvn {"eqpukfgtcdn {"kpvgttwrvf0"Uewvgnct" uvtkc" o quvn {"eqpvpkwqu."vqwejkpi"\*kp" j qnv {"rg+"qt"pqv"vqwejkpi" uvtkc"30"Uewvgnct"ugvkhgtqwu" rwpevwtg"cdugv0"Dcug"qh"gn {"vtc"unki j vn {"ukpwcvg"vq"vutcki j v."dcuac"dgcf"unki j vn {"ukpwcvg0"Gn {"vtcn" j w o gtk"qdvwug."tqwpfgf"\*kp" j qnv {"rg+"qt" cpi wncv.g. j w o gtcn"vqvj" cdugv0"Ncvgtcn" i tqqxg"qh" gn {"vtqp"pcttqy0"Oketquewnrvtg"eqpukvki"qh"tg i wnc" o gu j gu."eqctugt"kp"hg o cngu0"Grkrngwtq" of elytron smooth, usually with row of short impressions.

Xgpvtcn"rtcv"qh"vjqtzc"cpf"cdfq o gp0"Rtquvgtpw o "kp"okf fng"u o qqv j."ykvj"ujcnnqy"vq"fggr" vtcpxugtucn"ko r tguakp0"Rtquvgtpcn"rtqegu"pqv"\*kp" j qnv {"rg+"qt"xgt {"ujcnnqy n {"vq"ujcnnqy n {"

dgcfgf\* dgcfgf kpvgttwrvvf crkecnn {+. ykvj 66: ugvcg cpvgtkqt {0 Oguqv jqtcz cpf o gvcvj qtcz kp okf fng u o qqv j 0 Grkuvgtpw o qh rrtqv jqtcz xgt { urctugn { vq urctugn { cpf xgt { Lpgn { vq Lpgn { rwpvcvg 0 Grkuvgtpw o qh o guqv jqtcz urctugn { vq fgpugn { \*kp j qnqv { rg+ cpf eqctugn { vq xgt { urctugn { rwpvcvg 0 Grkuvgtpw o qh o gvcvj qtcz xgt { urctugn { cpf Lpgn { \*kp j qnqv { rg+ vq eqctugn { rwpvcvg. u j qtvgt v j cp ykf g 0 Uk fgu qh cd f q o kpcn xgpvtkv g 3 cp f 4 urctugn { cp f eqctugn { vq Lpgn { rwpvcvg. uk fgu qh cd f q o kpcn xgpvtkv g 5 xgt { urctugn { vq urctugn { cp f Lpgn { \*kp j qnqv { rg+ vq coarsely punctate, sides of abdominal ventrites 4 and 5 smooth (usually) or very sparsely and Lpgn { rwpvcvg. uk fgu qh cd f q o kpcn xgpvtkv g 8 u o qqv j vq cn o quv u o qqv j 0 Uk fgu qh cd f q o kpcn xgpvtkv g 5 vq 7 cp f cn o quv gpvtg cd f q o kpcn xgpvtkv g 8 y tkp mng f 0 Cd f q o kpcn xgpvtkv g 5 vq 7 with one pair of setiferous punctures. Males with two, females with four setiferous punctures cv rquvgtkt o cti kp qh ncv cd f q o kpcn xgpvtkv 0

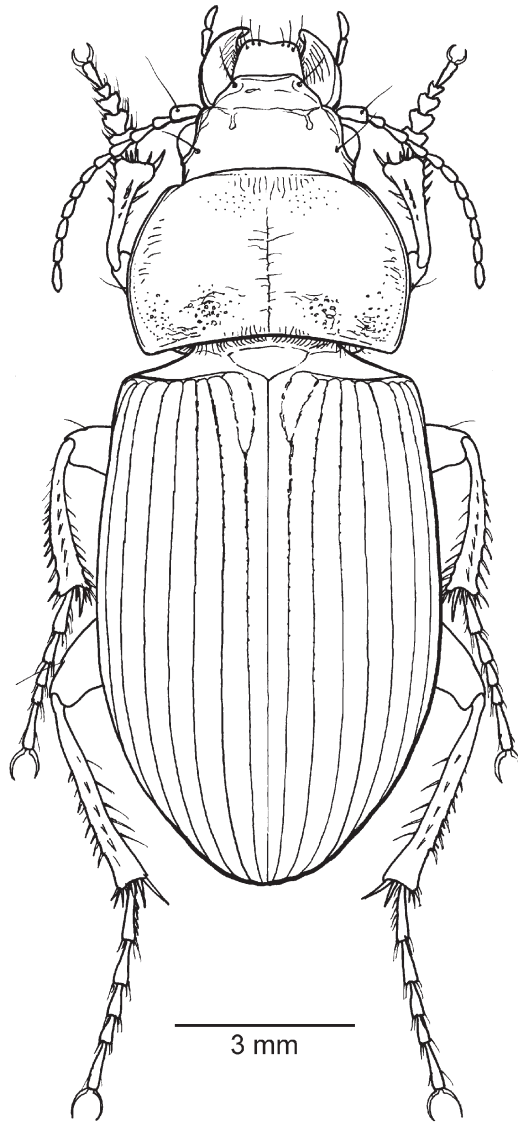
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Cfg fci wu 0 O g f k p n d g o g f k w o / u k | g f \* n g p i v j 603264033 mm, width 302631030 mm; hqlq/ v { rg 6053 cp f 3052 o o +. nghv uk f g u j c m q y n { g o c t i k p e v g d g h q t g c r g z f q t u c n n { \* H k i u 6 c p f 7 + 0 C r g z q h o g f k p n d g e n q p i c v g c p f p c t t q y c d q x g \* t c v k q q h n g p i v j l y k f v j ? 305563046; hqlq type 3066+. unki j vn { ewtxgf vq nghv 0 Tki j v rctc o gtg y kv j nqpi j qm \* Hki u 5 cp f 7 + 0

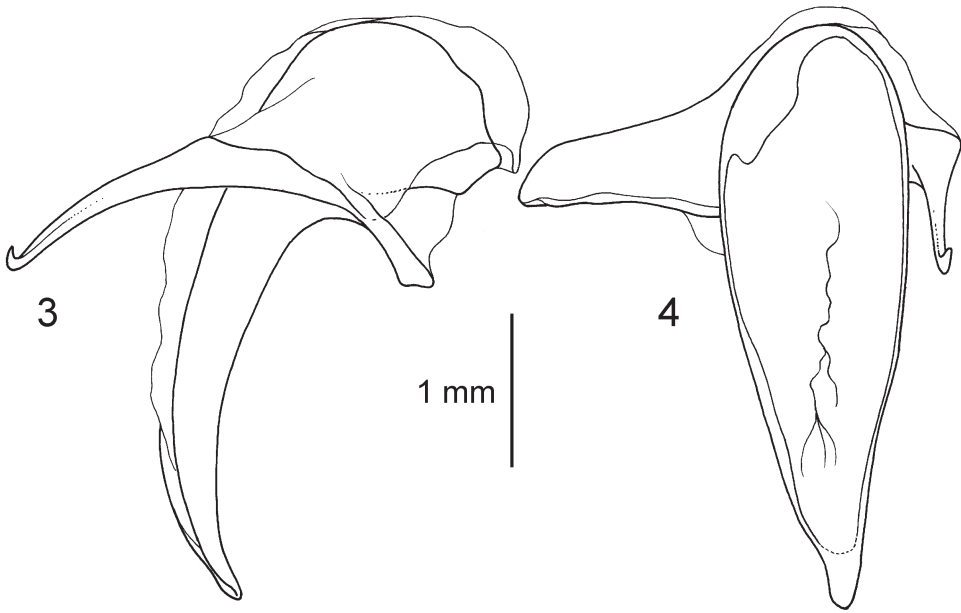
Uv { nk ncti g. ncv uv { nq o gtg vqi w g / u j c r g f \* Hki u 32 cp f 33 + 0

**Differential diagnosis.** *Zabrus skoupyi* sp. nov. is a distinct species with a unique body shape. Kv ku gcu kn { f k u v k p i w k u j c d n g h t q o c m u r g e k g u q h v j g u w d i g p w u Pelor from northwestern Greece by kvu xgt { fkhgtgpv jcdkwu cp f v j g z v t g o g n { p c t t q y n c v g t c n d g c f q h r t q p q w o 0 V j g o q u v u k o k n c t species, *Z. peristericus* Crhndgem. 3; 23. fkhgtu kp jcxkpi v j g r t q p q w o o o q t g p c t t q y g f v q y c t f r q u v g t k t c p i n g u . r t q p q w o o y k f g u v d g h q t g q t c v o k f f n g . n c v g t c n o c t i k p u q h r t q p q w o o u n k i j v n { u k p w c v g v u v t c k i j v d g h q t g r q u v g t k t c p i n g u 0 Z. peristericus fkhgtu kp v j g u j c r g q h v j g c g f g c i w u \* Hki 0 ; - c r g z q h o g f k c p n d g q h Z. peristericus ku dtqc f g t . c p f k v u n c t i g t c x g t c i g u k | g \* 350 : 6390 mm, cxgtc i g 3704 o o . n ? 57 + 0 V j g v y q u { o r c v t k e u r g e k g u f k h h g t c u h q m q y u Z. albanicus Crhndgem. 3; 26 u 0 n c v 0 k p j c x k p i r t q p q w o c p f g n { v t c d t q c f g t . r q u v g t k t c p i n g u q h r t q p q w o o q t g u j c t r . c p f k p v j g u j c r g q h c g f g c i w u \* Hki 0 8 - o g f k c p n d g q h Z. albanicus is shorter and narrower); *Z. brevicollis* Uejcw o . 3 : 79 k p j c x k p i r t q p q w o c p f g n { v t c d t q c f g t . r t q p q w o o o q t g p c t t q y g f v q y c t f r q u v g t k t c p i n g u . k p v j g u j c r g q h c g f g c i w u \* Hki 0 9 - c r g z q h o g f k c p n d g q h Z. brevicollis ku u j q t v g t c p f d t q c f g t . c p f n c t i g t u k | g \* 360963 : 04 o o + 0 V j g t g o c k p k p i u r g e k g u h t q o p q t t h / y g u v g t p I t g g e g f k h h g t g u r g e k c n n { k p v j g h q m q y k p i e j c t c e v g t u Z. aetolus Schaum, 1864 s. lat. kp jcxkpi r t q p q w o c p f g n { v t c d t q c f g t . r q u v g t k t c p i n g u q h r t q p q w o o y k v j f k u v k p e v c r g z . c p f k p v j g u j c r g q h c g f g c i w u \* Hki 0 : - c r g z q h o g f k c p n d g q h Z. aetolus is broader); *Z. ganglbaueri* Crhndgem. 3; 28 u 0 n c v 0 k p j c x k p i r t q p q w o c p f g n { v t c o w e j d t q c f g t . c p f r t q p q w o o y k f g u v close to its base; *Z. graecus* Fglgcp. 3 : 4 : u 0 n c v 0 k p j c x k p i r t q p q w o c p f g n { v t c o w e j d t q c f g t . and pronotum not narrowed posteriad; *Z. incrassatus* C j t g p u . 3 : 36 + k p j c x k p i r t q p q w o c p f elytra much broader; *Z. spinipes* \* Hcdtkewu. 39 ; + u 0 n c v 0 k p j c x k p i r t q p q w o c p f g n { v t c o w e j d t q c f g t . g n { v t c c n o q u v u o q q v j \* y k v j q w v f k u v k p e v u v t k c g . c p f n c t i g t u k | g \* 380 : 62205 mm 0

**Distribution and habitat.** *Zabrus skoupyi* sp. nov. was repeatedly found in the Grammos Qtqu O q w p v c k p u . p q t v j q t p q t v j y g u v q h v j g x k m c i g q h C g v q o k n k v u c . c v v j g d q t f g t d g v y g g p G r k t w u c p f Y g u v O c e g f q p k e r g t r j g t k g u \* Hki 0 3 + 0 V j g k p f k x k f w c n u y g t g e q m n g e v g f k p c n r k p g o g c f q y u p g c t u p q y / L g n f u a t a p a t i t u d g q i e a 0 200062200 m a s 0 0 Z. *Zabrus skoupyi* sp. nov. most likely inhabits only a small area.



Hki<sup>0</sup>4<sup>0</sup>*Zabrus skoupyi* sp. nov., holotype, habitus, dorsal view.  
Obr. 2. *Zabrus skoupyi* ur<sup>0</sup>pqx<sup>0</sup>.jqnqv{ rwu."jcdkvwu."fqtu<sup>a</sup>np<sup>f</sup>rqjngf<sup>0</sup>

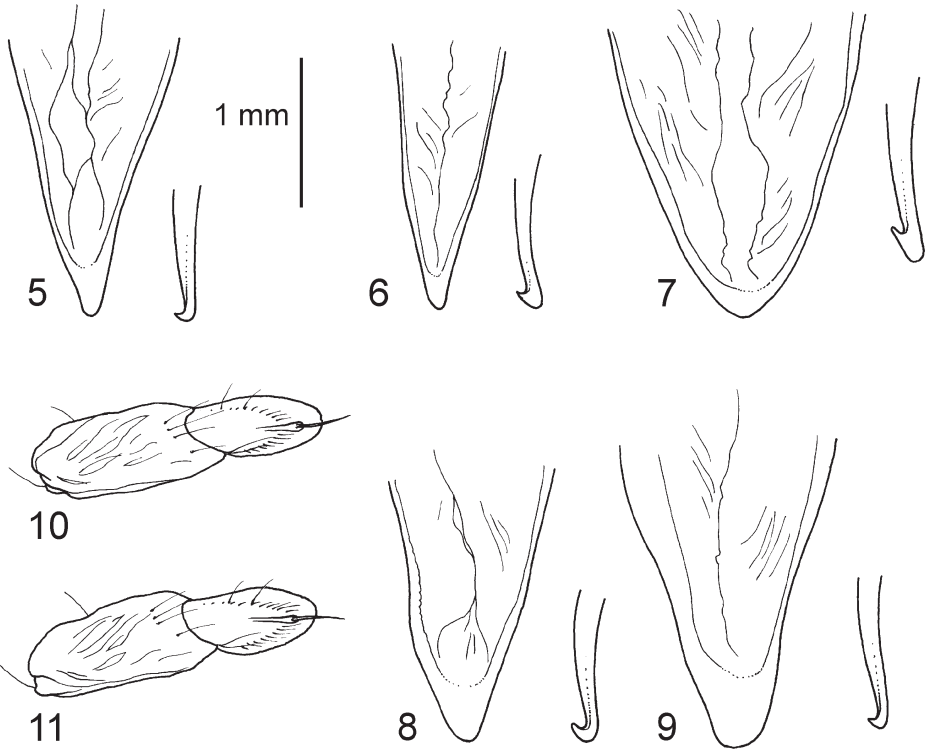


Hki u<sup>5</sup>-4. *Zabrus skoupyi* ur<sup>0</sup>pqx<sup>0</sup>. "jq<sup>0</sup>qv { rg<sup>0</sup>5<cgfgci wu< o gfkcp"iqdg"cpf"tki jv"rtc o gtc. ncvgtcn"xlgy =6<cgfgci wu< median lobe and parameres, dorso-apical view.

Obr. 3-4. *Zabrus skoupyi* ur<sup>0</sup>pqx<sup>0</sup>. "jq<sup>0</sup>qv { rrw<sup>0</sup>5<cgfgci wu< rgpku" c"rtcx<sup>a</sup>"rtc o gtc. "dq p<sup>0</sup> r qjngf =6<cgfgci wu< rgpku" c"rtc o gt {."fqtuqcrkm<sup>a</sup>np<sup>0</sup> r qjngf<sup>0</sup>

K"kf gpkŁgf"vjgug"urgekgu"qh"vjg"uw digpwu" *Pelor* from alpine and subalpine zones of the Grammos Oros Mountains and nearby mountain areas in northwestern Greece: *Z. aetolus* u<sup>0</sup>ncv<sup>0</sup>"\*Xqtcu"Qtqu"Oqwpvckpu."Xgt o kqp"Qtqu"Oqwpvckpu."Xgtpqp"Qtqu"Oqwpvckpu."Vtkmctkq"Oqwpvckpu."U o qnkmcu"Qtqu"Oqwpvckpu."cpf"Xqtkc"Rkpfqu" o qwpvckp"tcp i g."Mcv<sup>a</sup>tc"Rcuu+=*Z. albanicus* u<sup>0</sup>ncv<sup>0</sup>"\*Xgtpqp"Qtqu"MQwptaips, Gtammqs Qrqs MQwptaips, Smqlikas Qrqs Oqwpvckpu."cpf" Pqvk"Rkpfqu" o qwpvckp"tcp i g."y guv"qh"Vt<sup>0</sup>mcnc+*Z. brevicollis* (Grammos Oros Mountains); *Z. incrassatus* \*V{ oŁ"Oqwpvckpu."Ncm o qu"l?"Rgtkuvgtkl"Qtqu"Oqwpvckpu}; *Z. peristericus* \*V{ oŁ"Oqwpvckpu."Ncm o qu"l?"Rgtkuvgtkl"Qtqu"Oqwpvckpu."Vsqwmgka MQwptaips."cpf" Pqvk"Rkpfqu" o qwpvckp"tcp i g."y guv"qh"Vt<sup>0</sup>mcnc+; apd *Z. skoupyi* sp. nov. (Grammos Qtqu"Oqwpvckpu+<sup>0</sup>Htgwfg"3; ; ;+" o gpvkppgf"vjg"qeewtgpeg"qh"*Z. brevicollis*"kp"vjg"Mcva tc"Rcuu"cpf"tjg Smqlikas Qrqs MQwptaips<sup>0</sup> Speieis *Z. graecus*, *Z. incrassatus* and *Z. spinipes* are more common in the steppe and forest zones.

**Notes.** *Z. albanicus* was not yet recorded from Greece. It is a widely distributed polytypic urgekgu" jkvjgtvq"mpqyp"htq o" Cndcpc."Mquqxq"cpf"vjg" Tgrwdnke"qh" Oceg fapkc"\*Crhngdem" 3; 26." I cp indcwtg" 3; 37." Oc cp" 3; 5; ." J kgmg" 3; ; 3." Htgwfg" 3; ; ; ." I w<sup>2</sup>qti wkgx" 4229." gve<sup>0</sup>+<sup>0</sup> Ugttcq ("Cp fAlct"\*4225+"nkuvgf"*Z. albanicus jablanicensis* Oc cp." 3; 5; ; "kpeqtgenv {"htq o" Dqupkc"cpf" J gt | g i qxkpc<sup>0</sup>V jku"uw dur gekgu" y cu" fguetkdgf"htq o" vjg" Lcndcpc" Oqwpvckpu"cv"vjg" dqtfgt"dg v y ggp" Cndcpc"cpf"vjg" Tgrwdnke"qh" Oceg fapkc"\*ugg" Oc cp" 3; 5; ; "cpf"vjg"v { rg"ugtkgu" kp"vjg" Pcvkqpcn" Owugw o." Rtcj c<sup>0</sup>



Hki u"7–11. *Zabrus* spp. 5–; <cgfgciwu< o gfkcp"nqdg" fqtuq/crkecn"xlgy+"cpf"tki jv" rctc o gtc"ncvgtcn"xlgy+=32."33< stylus, ventral view. 5, 10, 11: *Z. skoupyi* sp. nov. (5: paratype No. 1; 10: paratype No. 5; 11: paratype No. 6); 6: *Z. albanicus* Crhngdgem." I tggcg."Pqyk"Rkpfqu" o qwpvckp"tcp i g"pgct"Rgtvq"Ånkqp" Y"qh"Vt"mncnc+=9<"*Z. brevicollis* Schaum, I tggcg."Rctpcuuqu"Qtqu" Oqwpvckpu. Umk"egpvtw o=": <*Z. aetolus* Uejcw o." I tggcg."Xqtkc"Rkpfqu" o qwpvckp"tcp i g."Mcv"tc" Rcuu="; <*Z. peristericus* Crhngdgem." I tggcg."Vuqw o gtmc" Oqwpvckpu"pgct" Cvj c o "pkqp) Obr. 5–11. *Zabrus* spp. 5–; <cgfgciwu< r gpku" fqtuqcrkm"np" r qjngf+"c" rtxc" rctc o gtc"dq p" r qjngf+=32."33<uv{nwu." xgpvt"np" r qjng f"7."32."33<*Z. skoupyi* ur"p"pqxl"7< rctcv{ r wu" 0"3-32< rctcv{ r wu" 0"7-33< rctcv{ r wu" 0"8+=8<*Z. albanicus* Crhngdgem." gemq."jqtum"2" r"u o q" Pqyk"Rkpfqu" r"t" Rgtvq"Ånkqp" \* " r c f p " q f" Vt"mncnc+=9<"*Z. brevicollis* Schaum, gemq." r q j q " Rctpcuuqu" Qtqu. Umk"egpvtw o=": <*Z. aetolus* Uejcw o." gemq." jqtum"2" r"u o q" Xqtkc"Rkpfqu." r t u o {m" Mcv"tc="; <*Z. peristericus* Crhngdgem." gemq." r q j q " Vuqw o gtmc" r"t" Cvj c o "pkqp)

Vjg"vczppq o { "qh" Dcnmcp"urgekqu"qh" vjg" uwdi gpwu" *Pelor* is very complicated. The status of many subspecies is unclear as there is not an accurate description of variability across the distribution of the species. That is why I mostly do not use the subspecies names of polytypic species in this study.

**Name derivation.** Fgfkcevgf." ykvj" i tgcv" rncuwtg." vq" F"l" Xncfk o { "t" Umqwr . " fiknkc" \*E | ge j" Republic), one of collectors of the new species and specialist in *Zabrus*.

CEMPQ YNGF I OGPVU"K" c o "qdnki g f"vq"U" Dgpg fkmw" Rn | g + "hqt" r t q x k f k p i " j k u" o c v g t k n . c p f " c m " e q m g e v q t u " o g p v k q p g f " k p " O c v g t k n " c p f " o g v j q f u " h q t " v j g " m k p f " i q c p " q h " u r g e k o g p u " q h " v j g " i g p w u " Z a b r u s " h t q o " v j g k t " e q m g e v k q p u " l " v j c p m " X " U m q w r " " \* f i k n k c " = h q t " c " f k u e w u k q p " q p " u q o g " r t q d i n g o u " q h " v c z p p q o { . " c p f " L " T " f l k " m c " \* E | g e j " W p l x g t u k v { " q h " N k h g " U e k g p e g u . " R t c j c " = h q t " v g e j p k e c n " j g n r " y k v j " v j g " o c p w u e t k r " U r g e k n " v j c p m u " i q " v q " L " X g n e " \* M n c f p q = " h q t " f t c y k p i " v j g " L i w t g u )

TGHGTGPEGU

CRHGNDGEMX03; 26<Die Käferfauna der Balkanhalbinsel, mit Berücksichtigung Klein-Asiens und der Insel Kreta. Erster Band: Familienreihe Caraboidea. R. Friedländer und Sohn, Berlin, 422 pp.

HTGWFG\*J03; ; <Tgxkqpf'fgt' |wt\*^A+ I cwwpi "ö \ cdtwuö'Encktxkmg'3:28'igj'4tgpfp' Ctvgp'ok'Dguvko owpivudcgmgp' (Col. Carabidae). 3. Teil. *Atti dei Museo Civico di Storia Naturale di Trieste* 42: 71–153.

ICP I NDCAWGT\*N03; 37<Tgxkqpf'fgt' I cwwpi " \ cdtwu' Encktd' Münchener Koleopterologische Zeitschrift 4: 87–137.

IW | QT I WKGX'D04229<; 0'Dkqiqitcrj { 'qh'vjg'Gpfgoke'Ectcdkfcg\*Eqngqrvgtc+'kp'vjg'Egpytnc'cpf'Gcuvgtp'Dcn/ mcp'Rgpkpuwnc0Rr04; 965780'kp<HGV'X0 ( 'RQRQX'C0'gfu<'Biogeography and Ecology of Bulgaria0Urtkipgt.' Dordrecht, 687 pp.

JKGMG'H03; ; 3<Fkg'Ectcdkfcg'gkpgt'Uc o o gntgkug'pcej'0c | g f q p k g p \* k p u g e v c < E q n g q r v g t c < 0'Acta Musei Macedonici Scientiarum Naturalium 16: 71–101.

OC CP'L03; 5; < \ qqigqitcLem" c" u { u v g o c i k e m " u w f l g " q " E c t c d k f g e j " I q n g - p k e g / r n c p k p { " x " l k f p l " L w i q u n c x k k l " F l g ' E c t c d k f g p h c w p c " f g t " I q n g - p k e c / R n e p k p c 0 " U d q t p f m " 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 u g c " x " R t c | g 17: 137–150 (in Czech and German).

UGTTCPQ'L0 ( ' C P F - L C T ' C 0 4 2 2 5 < U w d v t k d g " \ c d t k p c D a p g m k . " 3 : 3 2 0 ' R r 0 7 8 : 6 7 9 5 0 ' K p < N " D N ' K 0 ( ' U O G V C P C ' C 0 (eds): *Catalogue of Palaearctic Coleoptera. Volume 1. Archostemata – Myxophaga – Adephaga*. Crqmq'Dqqmu.' Uvgpwtw.' : 3 ; ' r r l

UQWJTP

X"rt^eklg"rqru^p"pqx "ftwj"uv gxn| mc"Zabrus (*Pelor*) *skoupyi*"ur0"pqx0|g'ugxgtq| ^rcfp|jq" gemc0'fiklg"x"rqjq | I t c o o q u p c c n r k p u m e j " n q w m ^ e j " x " p c f o q u m 2 " x - e g " 4 2 2 2 6 4 4 2 2 " o g v t 0 " P q x " f t w j " d { n " q r c m q x c p " u d f t a p " x " d n f | m q u v k " u p j q x e j " r q n f 0 " F q u w f " d { n q " | p ^ a o q " | " r g x p k p u m 2 " ^ a u k " u g x g t q | ^ a r c f p | j q " g e m c " q u o " v c z q p \* " f t w j " p g d q " r q f f t w j " + x " r q f t q f w " *Pelor* Bonelli, 1810 (rod *Zabrus* Clairville, 1806): *Z. aetolus matejkai* Oc cp."3; 62\* "rqjq | Xgtokqp"Qtqu+="Z. *aetolus purkynei* Oc cp."3; 62\* "v { r q x ^ a " n q m c n k v c " p c " j q g " M c l o c m c n p c " p c " u r q n g p 2 " j t c p k e k " g e m c " c " T g r w d n k m { " O c m g f q p k g + = " Z . b r e v i c o l l i s S c h a u m , 3 : 7 9 \* u g x g t q | ^ a r c f p | c " u v g f p | " g e m q + = " Z . g a n g l b a u e r i g a n g l b a u e r i C r h g n d g e m . " 3 ; 2 8 \* C n d ^ a p k g " c " u g x g t q | ^ a r c f p | " g e m q + = " Z . g r a e c u s s u b t i l i s U e j c w o . " 3 ; 8 4 \* u g x g t q | ^ a r c f p | c " u v g f p | " g e m q + = " Z . i n c r a s s a t u s \* C j t g p u . " 3 ; 3 6 + \* D c m m ^ p u m " r q n q q u v t q x + = " Z . p e r i s t e r i c u s C r h g n d g e m . " 3 ; 2 3 \* r q j q | " N c m o q u " Q t q u + a Z . s p i n i p e s i n s i g n i s I 0 " O A n n g t . " 3 ; 5 4 \* g e m q + 0 " Z . ( P . ) s k o u p y i " u r 0 " p q x 0 | I g " e j c t c m v g t k u v k e m " f t w j " u " I g f k p g p o " v x c t g o " v n c 0 " Q f " x - g e j " f t w j " r q f t q f w " *Pelor* " f q u w f " | p ^ a o e j " | g " u g x g t q | ^ a r c f p | j q " g e m c " I g " u p c f p q " t q | g | p c v g n p " r t q " u x l " x g n o k " q f n k - p " x | j n g f " c " p g q d { g l p " A | m " r q u v t c p p f " n g o " - v f w 0 " P g l r q f q d p l - f " f t w j " Z . ( P . ) p e r i s t e r i c u s u g " n k - f " v x c t g o " - v f w . " m v g t " I g " r g f " | c f p | o k " t q j { " x f e g " | A f l g p " c " I g " p g l - k t - f " r g f " u v g f g o " p g d q " w r t q u v g f . " r q u v t c p p f | o k " q m t c l k " - v f w . " m v g t 2 " l u q w " r g f " | c f p | o k " t q j { " u n c d " x { m t q l g p 2 " c f l " t a x p 2 . " v x c t g o " c g f g c i w \* - r k e g " r g p k u w " Z . p e r i s t e r i c u s I g " - k t - f " c " x v - f " r t o t p q w " x g n k m q u v 0 " Q u v c v p p f " f t w j { " o c l f " - v f v " c " m t q x m { " - k t - f . " c u v q " x g n o k " x t e | p 0 " F c n - f " t q | n k - q x c e f " | p c m { " l u q w " w x g f g p { " x " c p i n k e m 2 o " v g z v w 0 " V c z q p q o k g " d c m m ^ p u m e j " f t w j " r q f t q f w " *Pelor* I g " x g n o k " u n q f l v ^ a 0 " U v c w u " o p q j c " r q f f t w j " I g " p g l c u p . " r t q v f l g " e j { d f f m n c f p 2 " r q r k u { " x c t k c d k n k v { " x " t ^ a o e k " t q | - f " g p f " f t w j 0 " \ v e j v q " f x q f " c w v q t " v 2 q u v w f k g " x - k p q w " p g r q w f l x ^ a " r q f f t w j q x ^ a " I o 2 p c " w " r q n { v { r k e m e j " f t w j 0 " R t ^ e g " q d u c j w l g " p q x 2 " A f c l g " q " t q | - f " g p f " f t w j " Z . ( P . ) a e t o l u s S c h a u m , 1 8 6 4 s . l a t . , Z . ( P . ) a l b a n i c u s " C r h g n d g e m . " 3 ; 2 6 " u 0 " h c v 0 . " Z . ( P . ) b r e v i c o l l i s S c h a u m , 1 8 5 7 a Z . ( P . ) p e r i s t e r i c u s C r h g n d g e m . " 3 ; 2 3 " x " u g x g t q | ^ a r c f p | o " g e m w 0 Z . ( P . ) a l b a n i c u s u 0 " n c w 0 " I g " p q x " f t w j " r t q " g e m q 0