

Table 1: Climate data of Çanakkale Meteorology Station (BICKICI & BALAS 2010), representative of the near Çardak Lagoon area.

Parameter	Value
Annual mean temperature	14.9 °C
Mean temperature of January (coldest month)	6.3 °C
Mean temperature of July (hottest month)	25.0 °C
Mean annual rainfall	595.6 mm
Rainfall in December, the month of maximum rainfall	103.3 mm
Rainfall in August, the month of lowest rainfall	4.1 mm
Sea water temperature in summer	24 °C
Sea water temperature in winter	7 °C

*Podarcis tauricus* (PALLAS, 1814),  
new to the Anatolian part of the  
Province of Çanakkale, Turkey

Three out of 23 species of *Podarcis*, namely *P. muralis* (LAURENTI, 1768), *P. siculus* (RAFINESQUE-SCHMALTZ, 1810), and *P. tauricus* (PALLAS, 1814), are known to extend their range into the territory of Turkey (SINDACO & JEREMČENKO 2008; BARAN et al. 2012, UETZ et al. 2016).

The distribution of the chiefly south-east European species *P. tauricus* is well described by various compilatory publications (GASC et al. 1997; BÖHME et al. 2009; BARAN et al. 2012; BÜLBÜL et al. 2015). The first records from Turkey stem from its European part at Istanbul (SCHREIBER 1912; CYRÉN 1924; ANDRÉN & NILSON 1976); subsequently, various Thracian localities were added (CLARK & CLARK 1973; BAŞOĞLU & BARAN 1977; FRANZEN 1990; ÇEVİK 1999; TOK & ÇIÇEK 2014). The first Anatolian record (Beykoz, İstanbul) was published by BIRD (1936), another one (Polenezköy, İstanbul) by BODENHEIMER (1944) and MERTENS

(1952). Further records of the species refer to northwestern Anatolia (BARAN 1977; NILSON et al. 1988; BERGMAN & NORSTRÖM 1990; FRANZEN 1990; TEYNIÉ 1991; BARAN et al. 1992; MULDER 1995; SINDACO et al. 2000; BÜLBÜL et al. 2015). All specimens of the European and Anatolian parts of Turkey were assigned to the widespread nominate race already by MERTENS (1952), which was later confirmed by POULAKAKIS et al. (2005) with molecular studies. The distribution of *P. tauricus* in Turkey is shown in BÜLBÜL et al. (2015). In the present note, the authors report a new Turkish record locality of this species from Anatolian Çanakkale.

Six adult specimens of *P. tauricus* were seen at the banks of the Lagoon of Çardak (Province of Çanakkale, Turkey) on March 08, 2016, two of which, a female (Fig. 1) and a male, were collected according to the guidelines of the university's ethics committee (2016/03–01), anesthetized (ether), preserved (70 % ethanol) and stored in the collection of the Zoology Museum at the Biology Department in the Faculty of Arts and Science at Çanakkale Onsekiz Mart University (ZM-COMU 1-2016). The specimens are in full agreement with *P. t. tauricus* in terms of coloration and pholidosis (see data in BAŞOĞLU & BARAN 1977; ÇEVİK 1999; BARAN & ATATÜR 1998; BÜLBÜL et al. 2015). The new record extends the known distribution area of the species across the Hellespont.

The lagoon (40°22'51" - 40°23' 36"N and 26°42'45" - 26°44'18"E), which occupies an area of 1.2 square kilometers, is lo-



Fig. 1: Female *Podarcis tauricus* (PALLAS, 1814), from the Çardak Lagoon, Çanakkale (ZM-COMU 1-2016).

cated at the northeastern coast of the Çanakkale Strait (Dardanelles), separating Europe and Asia. This locality exhibits the characteristics of a transition zone between Mediterranean and Black Sea climate types. Climate data collected during 32 years at Çanakkale Meteorology Station are shown in Table 1.

The Çardak Lagoon was declared a “Natural site” by the Turkish Ministry of the Environment in 1996 (ÇALIŞKAN et al.

2011). The soil of the terrestrial habitat of the lagoon is sandy and salty, *Juncus acutus* (Spiny rush) being the dominant shrub vegetation in the area (Fig. 2).

REFERENCES: ANDRÉN, C. & NILSON, G. (1976): Observations on the herpetofauna of Turkey in 1968-1973.- *British Journal of Herpetology*, London; 5: 575-584. BARAN, İ. (1977): Anadolu *Lacerta taurica* örneklerinin taksonomik durumu.- *Ege Üniversitesi Fen Fakültesi Dergisi (Ser B) C1*: 302-307. BARAN, İ. & ATATÜR, M. K. (1998): Turkish herpetofauna (amphibians & reptiles). Ankara (Republic of Turkey



Fig. 2: Habitat of *Podarcis tauricus* (PALLAS, 1814), at the Çardak Lagoon, the new record locality in the Anatolian part of the Province of Çanakkale, Turkey.

- Ministry of Environment), pp. 14, 214. BARAN, İ. & ILGAZ, Ç. & AVCI, A. & KUMLUTAŞ, Y. & OLGUN, K. (2012): Türkiye amfibi ve sürüngenleri [Amphibians and reptiles of Turkey]. Ankara (TÜBİTAK Popüler Bilim Kitapları), pp. 208. BARAN, İ. & YILMAZ, İ. & KETE, R. & DURMUŞ, H. (1992): Batı ve orta Karadeniz Bölgesinin herpetofaunası.- Turkish Journal of Zoology, Ankara; 16: 275-288. BAŞOĞLU, M. & BARAN, İ. (1977): Türkiye sürüngenleri. Kısım I. Kaplumbağa ve kertenkeleler.- Ege Üniversitesi Fen Fakültesi Kitaplar Serisi, İzmir; 76: VI, 272. BERGMANN, J. & NORSTRÖM, M. (1990): Neues über *Podarcis taurica* (PALLAS, 1814) in der asiatischen Türkei.- Salamandra, Rheinbach; 26: 85-86. BİÇKİCİ, B. & BALAS, L. (2010): Kıyı lagünleri hidrodinamiği; pp. 1267-1276. In: BALAS, L. (Ed.): Türkiye'nin kıyı ve deniz alanları. VIII. Ulusal Kongresi Bildiriler Kitabı, Trabzon, May 2010. BIRD, C. G. (1936): The distribution of reptiles and amphibians in Asiatic Turkey with notes on a collection from the vilayets of Adana, Gaziantep and Malatya.- Annals and Magazine of Natural History, Zoology, Botany and Geology, London; 18: 257-281. BODENHEIMER, F. S. (1944): Introduction into the knowledge of the Amphibia and Reptilia of Turkey.- Revue de la Faculté des Sciences de l'Université d'Istanbul, Istanbul; (B) 9: 1-94, pts. I-X. BÜLBÜL, U. & KURNAZ, M. & EROĞLU, A. İ. & KOÇ, H. & KUTRUP, B. (2015): A new locality record of *Podarcis tauricus tauricus* (PALLAS, 1814) (Squamata: Lacertidae) from the western Black Sea region of Turkey.- Turkish Journal of Zoology, Ankara; 39: 981-986. CLARK, R. J. & CLARK, E. D. (1973): Report on a collection of amphibians and reptiles from Turkey.- Occasional Papers of the California Academy of Sciences, San Francisco; 104: 1-62. CYRÉN, O. (1924): Klima und Eidechsenverbreitung. Eine Studie der geographischen Variation und Entwicklung einiger Lacerten, insbesondere unter Berücksichtigung der klimatischen Faktoren.- Meddelanden från Göteborgs Musei Zoologiska Avdelning, Göteborg; 29: 1-97. ÇALIŞKAN, V. & SAMSA, Ş. & ÖZTÜRK, M. Z. & TOSUNOĞLU, M. (2011): A proposal for the utilization of Çardak Lagoon (Northwest Anatolia) and its vicinity through wetland management.- Management in Education, Milton Keynes; 7 (3): 332-340. ÇEVİK, İ. E. (1999): Trakya'da yaşayan kertenkele türlerinin taksonomik durumu (Lacertilia: Anguidae, Lacertidae, Scincidae).- Turkish Journal of Zoology, Ankara; 23: 23-35. FRANZEN, M. (1990): Die Eidechsenfauna (Lacertidae) der Türkei.- Die Eidechse. Beiträge zur Kenntnis der Lacertiden, Mannheim; 1: 3-9. GASC, J. P. & CABELA, A. & CRNOBRNJIA-ISAİLOVIC, J. & DOLMEN, D. & GROSSENBACHER, K. & HAFFNER, P. & LESURE, J. & MARTENS, H. & MARTINEZ-RICA, J. P. & MAURIN, H. & OLIVEIRA, M. E. & SOFIANIDOU, T. S. & VEITH, M. & ZUIDERWIJK, A. (1997): Atlas of amphibians and reptiles in Europe. Paris (Societas Europea Herpetologica and Museum National d'Histoire Naturelle), pp. 493. MERTENS, R. (1952): Amphibien und Reptilien aus der Türkei.- İstanbul Üniversitesi Fen Fakültesi Mecmuası, İstanbul; (B) 17: 40-75. MULDER, J. (1995): Herpetological observations in Turkey (1987-1995).- Deinsea, Rotterdam; 2: 51-66. NILSON, G. & ANDRÉN, C. & FLARDH, B. (1988): Die Vipern in der Türkei.- Salamandra, Rheinbach; 24: 215-247. POULAKAKIS, N. & LYMBERAKIS, P. & VALAKOS, E. & PAFILIS, P. & ZOUROS, E. & MYLONAS, M. (2005): Phylogeography of the Balkan wall lizard (*Podarcis taurica*) and its relatives inferred from mitochondrial DNA sequences.- Molecular Ecology, Oxford; 14: 2433-2443. SCHREIBER, E. (1912): Herpetologia Europaea. Eine systematische Bearbeitung der Amphibien und Reptilien welche bisher in Europa aufgefunden sind. 2nd edition. Jena (Gustav Fischer), pp. X, 960. SINDACO, R. & JEREMČENKO, V. K. (2008): The reptiles of the western Palearctic. 1. Annotated checklist and distributional atlas of the turtles, crocodiles, amphibians and lizards of Europe, North Africa, Middle East and Central Asia. Latina (Edizioni Belvedere), pp. 579. SINDACO, R. & VENCHI, A. & CAPPANETO, G. M. & BOLOGNA, M. A. (2000): The reptiles of Anatolia. A checklist and zoogeographical analysis.- Biogeographia, Bologna; 21: 441-554. TEYNIÉ, A. (1991): Observations herpétologiques en Turquie, 2ème Partie.- Bulletin de la Société Herpétologique de France, Paris; 58: 20-29. TOK, C. V. & ÇIÇEK, K. (2014): Amphibians and reptiles in the province of Çanakkale (Marmara Region, Turkey).- Herpetozoa, Wien; 27: 65-76. UETZ P. & FREED, P. & HOŠEK, J. (eds.) (2016): The reptile database. WWW database available at < <http://www.reptile-database.org> > [last accessed: November 16, 2016].

KEY WORDS: Reptilia: Squamata: Sauria: Lacertidae; *Podarcis tauricus*, new record locality, Çardak Lagoon, Province of Çanakkale, Anatolia, Turkey

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