



## First record of the genus *Trichodes* Herbst (Coleoptera: Cleridae) from Pakistan

Zubair Ahmed<sup>1</sup> , Haseeb Ahmed Lalika<sup>2</sup> & Imran Khatri<sup>3</sup>

1- Department of Zoology, Federal Urdu University of Arts, Sciences & Technology, Karachi, Pakistan

2- Department of Entomology, The Islamia University of Bahawalpur, Punjab, Pakistan

3- Department of Entomology, Sindh Agriculture University, Tandojam, Sindh, Pakistan

✉ Zbrahmed36@gmail.com

<https://orcid.org/0009-0003-2692-8395>

✉ haseebahmedlalika@gmail.com

<https://orcid.org/0009-0005-5219-6820>

✉ imrankhatri.agri@gmail.com

<https://orcid.org/0000-0003-2646-4156>

**Abstract.** *Trichodes sedlaceki* sedlaceki Winkler is newly recorded from Beshgram, Chitral, KPK, Pakistan. Both the genus and the species are new to this region. Figures of the habitus and the aedeagus, along with a distributional map, are presented.

**Keywords:** *Trichodes sedlaceki* sedlaceki, Coleoptera, fauna, beetle, diversity

### Article History

*Received:*

20 November 2023

*Accepted:*

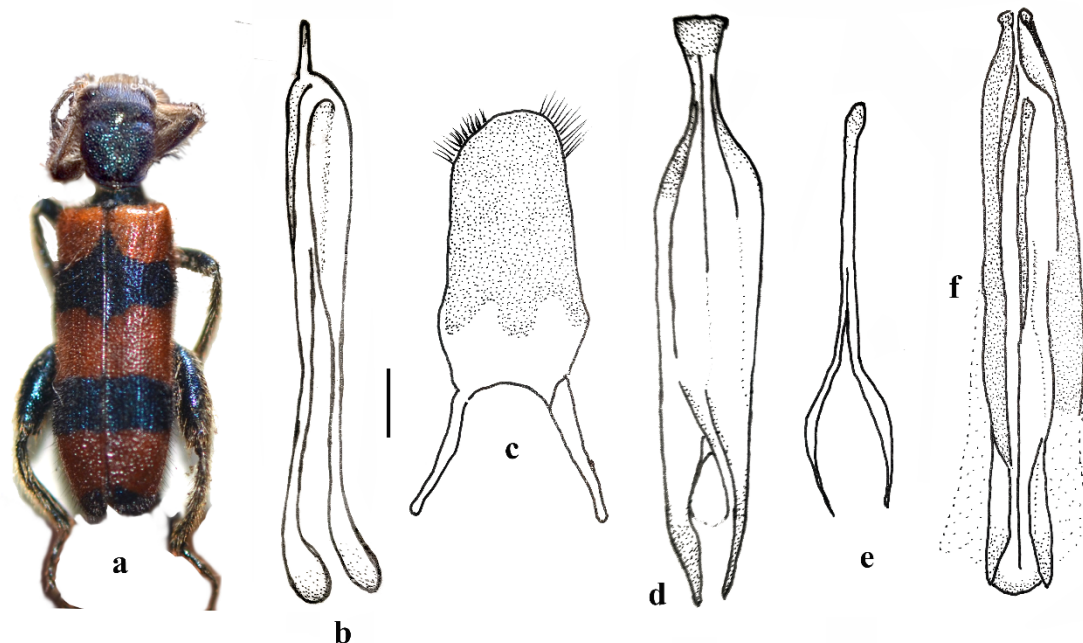
23 December 2023

*Subject Editor:*

Hiva Naserzadeh

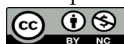
**Citation:** Ahmed, A., Ahmed Lalika, H. & Khatri, I. (2023) First record of the genus *Trichodes* Herbst (Coleoptera: Cleridae) from Pakistan. *J. Entomol. Soc. Iran*, 43 (4), 417–420.

The family Cleridae is a diverse group with 3,700 species (Gerstmeier, 2014) that are divided into four subfamilies (Gimmel *et al.*, 2019; Bartlett, 2021). These beetles can be recognized by their body structure, such as a head broader than the pronotum, a pronotum narrower than the elytra, and a body covered with long bristle-like hairs. These beetles are usually predators. For example, the larval stages of *Trichodes* depend completely on the eggs of grasshoppers or the cells of bees (Opitz, 2002; Knoll, 1951).



**Fig. 1.** *Trichodes sedlaceki sedlaceki* Winkler (scale bar 1mm) a) habitus dorsal view b) is the Phallus c) Pygidium d) Tegmen e) Spicular fork f) Tegmen. (Scale bar = 1 mm).

Corresponding author: Zubair Ahmed (E-mail: [zbrahmed36@gmail.com](mailto:zbrahmed36@gmail.com))



© 2023 by Author(s), Published by the Entomological Society of Iran

This Work is Licensed under Creative Commons Attribution-Non Commercial 4.0 International Public License.

Some members of the family infest the trees under the bark, produced galls or twigs deads in the cambium of wood; some of them attack in their adult form while some do so in their whole life stages (Mawdsley, 2002; George, 1924). *Trichodes* Herbst, 1792 is a genus that has 75 species and subspecies worldwide (Löbl & Smetana, 2007). There is no considerable study on clerids that includes Pakistan other than Hashmi & Tashfeen (1992).

This species, which is a new record for Pakistan, was collected from Beshgram. Figures of the habitus and the aedeagus, along with a distributional map, are presented (Fig. 1), (Fig. 2). It has been recorded of Palearctic from the Mediterranean region (names of the countries) and Middle East (Afghanistan, Oman, Saudi Arabia, United Arab Emirates, Yemen) and also Africa.

The identification was verified by Dr. Roland Gerstmeier (Zoologische Staatssammlung, Munich, Germany).

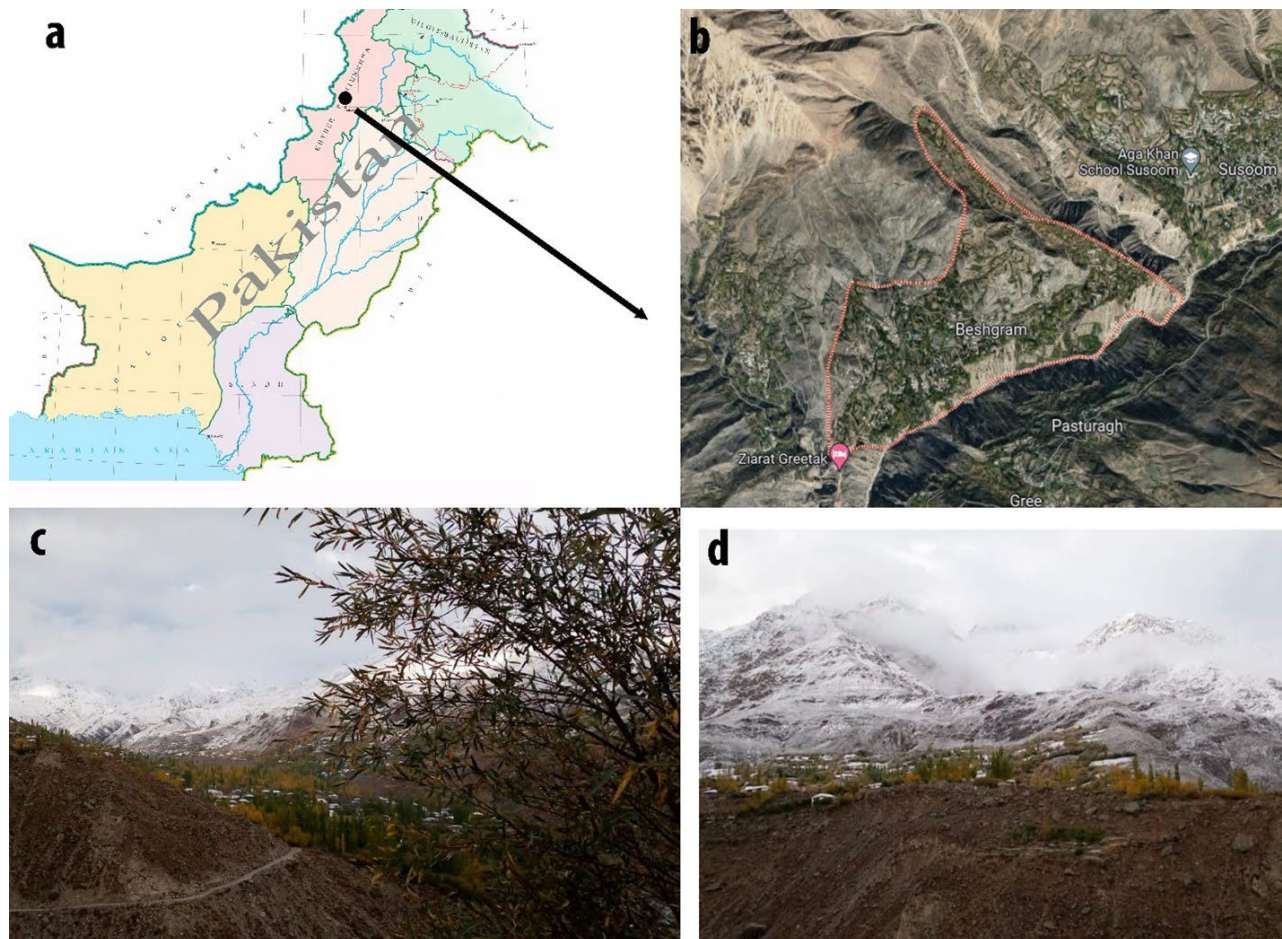


Fig. 2. a) Map of Pakistan b) Beshgram aerial view c, d) Beshgram ground view.

## Acknowledgment

The authors thank Luri Zappi (Istituto Tecnico Agrario “A. Serpieri” Italy) and W. Opitz (Florida State Collection of Arthropods) for their helpful information. We especially thank Roland Gerstmeier (Zoologische Staatssammlung, Munich, Germany) for determining the subspecies.

## REFERENCES

- Bartlett, J. S. (2021) A preliminary suprageneric classification for Clerinae (Coleoptera: Cleridae) based on molecular and morphological evidence, including a review of tegminal terminology. *Annales Zoologici* (Warszawa), 71(4), 737–766. <https://doi.org/10.3161/00034541ANZ2021.71.4.003>
- George St, R. A. (1924) Egg and first stage larva of *Tarsostenus univittatus* (Rossi), a beetle predacious on powder-post beetles. *Journal of Agricultural Research* 29: 49-51.

- Gerstmeier, R.** (2014) An overview of taxonomy and biology of the Cleridae (Coleoptera, Cleroidea, Cleridae). *Giornale Italiano di Entomologia* 13(59): 481-494.
- Gimmel, M. L., Bocakova, M., Gunter, N. L. & Leschen, R. A. B.** (2019) Comprehensive phylogeny of the Cleroidea (Coleoptera: Cucujiformia) *Systematic Entomologist*, 44, 527–558. <https://doi.org/10.1111/syen.12338>
- Hashmi, A. & Tashfeen, A.** (1992) Coleoptera of Pakistan. *Proceedings of Pakistan Congress of Zoology*, 12, 133-170.
- Knull, J. N.** (1951) The checkered beetles of Ohio (Coleoptera: Cleridae). *Ohio Biological Survey Bulletin*, 8(42), 268-350.
- Löbl, I. & Smetana, A.** (2007) *Catalogue of Palaearctic Coleoptera*. Vol 4. Elateroidea - Derodontoidea - Bostrichoidea Lymexyloidea - Cleroidea - Cucujoidea. Apollo Books Denmark. 971 Pp. [https://doi.org/10.1163/9789004260894\\_004](https://doi.org/10.1163/9789004260894_004)
- Mawdsley, J. R.** (2002) Ecological notes on species of Cleridae (Coleoptera) associated with the prairie flora of central North America. *Great Lakes Entomologist*, 35, 15-22. <https://doi.org/10.22543/0090-0222.2056>
- Opitz, W.** (2010) Classification, natural history, phylogeny, and subfamily composition of the Cleridae and generic content of the subfamilies (Coleoptera: Cleroidea). *Entomologica Basiliensia et Collectionis Frey*, 32, 31-128.
- Opitz, W.** (2002) Family 73. Cleridae. p. 267-280. In: R. H. Arnett, Jr., M. C. Thomas, P. E. Skelley, and J. H. Frank (eds.). *American Beetles*, Vol. 2. CRC Press; Boca Raton, FL. 861 p. <https://doi.org/10.1201/9781420041231>

## اولین گزارش از جنس *Trichodes* Herbst (Coleoptera: Cleridae) از پاکستان

زبیر احمد<sup>۱</sup>، حسیب احمد لالیکا<sup>۲</sup> و عمران ختری<sup>۳</sup>

۱- گروه جانورشناسی، دانشگاه فدرال اردو هنر، علوم و تکنولوژی، کراچی، پاکستان

۲- گروه حشره شناسی، دانشگاه اسلامی باهاولپور، پنجاب، پاکستان

۳- گروه حشره شناسی، دانشگاه کشاورزی سند، تندو جام، سند، پاکستان

✉ zbrahmed36@gmail.com

✉ haseebahmedlalika@gmail.com

✉ imrankhatri.agri@gmail.com

<https://orcid.org/0009-0003-2692-8395>

<https://orcid.org/0009-0005-5219-6820>

<https://orcid.org/0000-0003-2646-4156>

تاریخچه مقاله

دریافت: ۱۴۰۲/۰۸/۲۹ | پذیرش: ۱۴۰۲/۱۰/۰۲ | دبیر تخصصی: هیوا ناصر زاده

### چکیده

در این نوشتار، گونه *Trichodes sedlaceki* sedlaceki Winkler برای فون پاکستان گزارش می شود. نمونه های این زیرگونه سخت بالپوش از منطقه پاشگرام، چیترال واقع در استان خیبرپختونخوا جمع شده است. در گزارش جاری، تصاویر زیستگاه حشره به همراه آداگوس و نقشه پراکنش آن ارائه شده است.

**کلمات کلیدی:** *Trichodes sedlaceki* sedlaceki، سخت بالپوشان، Cleridae، پاکستان، اولین گزارش

نویسنده مسئول: زبیر احمد (پست الکترونیک: zbrahmed36@gmail.com)

**Citation:** Ahmed, A., Ahmed Lalika, H. & Khatri, I. (2023) First record of the genus *Trichodes* Herbst (Coleoptera: Cleridae) from Pakistan. *J. Entomol. Soc. Iran*, 43 (4), 417–420. <https://doi.org/10.61186/jesi.43.4.10>