

## Scientific Note

## On the occurrence of three new Lycaenid butterflies (Lepidoptera) from Jammu and Kashmir, India

Sobre la aparición de tres nuevas mariposas licénidas (Lepidoptera) de Jammu y Cachemira, India

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**Abstract.** The present communication deals with three butterfly species belonging to family Lycaenidae and subfamily Theclinae, recorded for the first time from different localities in a mountainous watershed in the Union Territory of Jammu and Kashmir during 2020. These include *Esakiozephyrus icana*, *Spindasis ictis* and *Tajuria jehana*. The information on their current extent and known occurrence will be helpful in updating the range distribution of butterflies in north-western Himalayas.

**Key words:** Elevational bands; lepidopteran fauna; mountainous landscapes; Neeru watershed; north-western Himalayas.

**Abstract.** La presente comunicación trata de tres especies de mariposas pertenecientes a la familia Lycaenidae y subfamilia Theclinae, registradas por primera vez en diferentes localidades en una cuenca montañosa en el Territorio de la Unión de Jammu y Cachemira durante 2020. Estas incluyen a *Esakiozephyrus icana*, *Spindasis ictis* y *Tajuria jehana*. La información sobre su presencia actual existente y conocida será útil para actualizar la distribución de las mariposas en el noroeste del Himalaya.

**Palabras clave:** Bandas de elevación; cuenca Neeru; fauna de lepidópteros; Himalaya noroccidental; paisajes montañosos.

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It is noteworthy that the mountainous landscapes of Jammu and Kashmir though offering a wide variety of lepidopteran habitats have been least explored for butterflies (Sharma & Sharma 2017). Neeru watershed, the part of upper Chenab catchment (Fig. 1) certainly positioned in the Oriental region (Price *et al.* 2003) comprises of low lying valleys, forested slopes, alpine rangelands and rugged rocky outcrops in different microclimatic regimes. The butterflies inhabiting these habitats show a variety of distributional patterns in different elevational bands. The region has quite recently emerged as a potential butterfly hotspot contributing several new species to the lepidopteran fauna of Jammu and Kashmir (Sharma & Sharma 2018a, 2018b, 2020).

During an occasional three days butterfly survey along an elevational gradient from

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September 1-3, 2020, we encountered three new Lycaenid butterflies belonging to subfamily Theclinae, *Esakiozephyrus icana* (Moore, 1875), *Spindasis ictis* (Hewitson, 1865) and *Tajuria jehana* (Moore, 1884) earlier not recorded from the geographical limits of Jammu and Kashmir. The species were photographed and their identities were confirmed following Varshney & Smetacek (2015), Kehimkar (2008, 2016), Smetacek (2016), Sondhi & Kunte (2018), besides the expert-curated online portal, Butterflies of India website (<https://www.ifoundbutterflies.org/>). The systematic account of the species is provided as per Varshney and Smetacek (2015).



**Figure 1.** Study area (Neeru watershed) showing locations of new butterfly records (inset is the map of Union Territory of Jammu and Kashmir, India). / Área de estudio (cuena Neeru) que muestra la ubicación de nuevos registros de mariposas (el recuadro es el mapa del Territorio de la Unión de Jammu y Cachemira, India).

***Esakiozephyrus icana* (Moore, 1875)** (Dull-green Hairstreak)

Current known occurrence until this reporting: India (Himachal Pradesh to Uttarakhand, Arunachal Pradesh), Nepal, Bhutan (Varshney & Smetacek 2015; Kehimkar 2016; Singh 2016; Singh & Sondhi 2016; van Gasse 2017; Sondhi & Kunte 2018; Anonymous 2021).

**Remarks.** On a bright sunny afternoon of 1.ix.2020, we observed a couple of relatively small dark brownish butterflies nectaring on the floral spikes of *Persicaria hydropiper* (Delabre, 1800) along a mountain trek towards Sunbain, upper Bhaderwah (32°53'41" N - 75°46'40" E, c. 3246 m), district Doda. The species was photographed and later identified as *Esakiozephyrus icana* (Moore, 1875) the Dull-green Hairstreak (Fig. 2) after consulting the keys and field guides (Kehimkar 2008; Varshney & Smetacek 2015; Kehimkar 2016; Sondhi & Kunte 2016, 2018), and the online web resources (<https://www.ifoundbutterflies.org/sp/3002/Esakiozephyrus-icana>). The species rare in India (Kehimkar 2016; Sondhi & Kunte 2018), has its western extent of occurrence restricted to Himachal Pradesh (Evans 1932; Sondhi & Kunte 2018; Anonymous 2021). Our sighting of *E. icana* is first record of the species from the UT of Jammu and Kashmir. As the species is legally protected in India under Schedule II of the Wildlife (Protection) Act, 1972, the conservation of its habitat is necessitated.

***Spindasis ictis* (Hewitson, 1865)** (Common Shot Silverline)

Current known occurrence until this reporting: India (Rajasthan northwards to Himachal Pradesh, eastwards to West Bengal, Odisha, Madhya Pradesh and southwards to Kerala), Pakistan, Sri Lanka (Varshney & Smetacek 2015; Kehimkar 2016; Singh 2016; van Gasse 2017; Boruah *et al.* 2018; Singh & Sondhi 2016; Flora *et al.* 2020; Kumar *et al.* 2020; Soman 2021).

**Remarks.** A silverline butterfly was spotted nectaring on flowers of *Rubus niveus* (Thunberg, 1813) near Galgander (33°07'49" N - 75°33'49" E, c. 920 m), district Doda on a sunny morning of 3.ix.2020. The individual was photographed in the field and identified as *Spindasis ictis* (Hewitson, 1865), Common Shot Silverline (Fig. 3) after consulting Kehimkar (2008, 2016), Varshney & Smetacek (2015), Sondhi & Kunte (2018) and online web resources (<https://www.ifoundbutterflies.org/sp/877/Spindasis-ictis>). The known western distribution of this species is from district Kangra of Himachal Pradesh (Soman 2021) and this reporting is thus the first from the Union Territory of Jammu and Kashmir.

***Tajuria jehana* (Moore, 1884)** (Indian Plains Blue royal)

Current known occurrence until this reporting: India (Himachal Pradesh to eastern Himalayas, north east, south to peninsular India), Sri Lanka (Varshney & Smetacek 2015; Kehimkar 2016; van Gasse 2017; Sondhi & Kunte 2018; Sengupta *et al.* 2021).

**Remarks.** While doing field surveys during a late morning of 3.ix.2020, we observed a medium sized two tailed butterfly sitting on a rocky boulder near Neeru stream, Galgander (33°07'35" N - 75°34'01" E, c. 940 m), district Doda. The species was photographed and later identified as *Tajuria jehana* (Moore, 1884), Indian Plains Blue royal after consulting the keys and field guides (Kehimkar 2008; Varshney & Smetacek 2015; Kehimkar 2016; Sondhi & Kunte 2018), and the online web resources (<https://www.ifoundbutterflies.org/sp/513/Tajuria-jehana>). The species had earlier been recorded by one of the authors on 18.viii.2019 from Surinsar (32°46'41" N - 75°02'01" E, c. 596 m) district Jammu (Figs. 4, 5). Uncommon

in India (Kehimkar 2016; Sondhi & Kunte 2018), the western distribution of the species is up to Himachal Pradesh (Sondhi & Kunte 2018; Sengupta *et al.* 2021) and thus a new record for UT of Jammu and Kashmir.



**Figures 2-5.** New Lycaenidae records from Jammu and Kashmir, India. 2. *Esakiozephyrus icana*, 3. *Spindasis ictis*, 4-5. *Tajuria jehana*. / Nuevos registros de Lycaenidae de Jammu y Cachemira, India. 2. *Esakiozephyrus icana*, 3. *Spindasis ictis*, 4-5. *Tajuria jehana*.

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