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Checklist of Papilionoidea fauna from Rajasthan, India (Insecta: Lepidoptera)

Jitendra Kumar, Prahlad Kumar Meena & Smriti Johari

Abstract

This study presents a comprehensive checklist of 204 species and subspecies, belonging to 101 genera across six families, derived from published literature on Papilionoidea fauna of Rajasthan, India. Notably, the checklist incorporates 21 species that are protected under the Wildlife (Protection) Amendment Act, 2022. This extensive inventory significantly enriches our knowledge of the diversity and distribution of Papilionoidea in Rajasthan.
Keywords: Insecta, Lepidoptera, Papilionoidea, Rajasthan, systematic, India.

Lista de control de la fauna de Papilionoidea de Rajastán, India (Insecta: Lepidoptera)

Resumen

Este estudio presenta una lista exhaustiva de 204 especies y subespecies, pertenecientes a 101 géneros de seis familias, derivadas de la literatura publicada sobre la fauna Papilionoidea de Rajastán, India. En particular, la lista incorpora 21 especies que están protegidas por la Ley de Enmienda (de Protección) de la Vida Silvestre de 2022. Este extenso inventario enriquece significativamente nuestro conocimiento de la diversidad y distribución de Papilionoidea en Rajastán.
Palabras clave: Insecta, Lepidoptera, Papilionoidea, Rajastán, sistemática, India.

Introduction

Rajasthan is India's largest state by area, covering 342,239 km², which accounts for about 10.4% of the country's total area. Approximately 61% of Rajasthan is desert, forming part of the Indian Thar Desert, hence it is often called 'Maru Pradesh'. Geographically, Rajasthan is situated in the northern and western hemispheres, predominantly north of the Tropic of Cancer, with coordinates ranging from 23º3' to 30º12' north latitude and 69º30' to 78º17' east longitude. It shares borders with five Indian states-Punjab, Haryana, Uttar Pradesh, Madhya Pradesh, and Gujarat and has an international border with Pakistan. The Aravalli range, a remnant of ancient Gondwanaland, runs from northeast to southwest, dividing the state into two main regions: the arid plain in the northwest and the semi-arid plain along with the southeastern plateau in the east (Sharma & Mishra, 2021). Rajasthan has a tropical dry climate with an average annual rainfall of 57.8 cm. The vegetation in Rajasthan ranges from dry tropical forests to desert thorn scrubs and grasslands.

Due to their extensive knowledge, Lepidoptera are considered especially important in evolutionary biology and as indicators of biodiversity and conservation (de Jong et al., 1996). In India, the order Lepidoptera comprises 13,124 species, including 1,379 Papilionoidea species (Singh et al. 2024). With its varied landscapes, Rajasthan is home to a wide range of species, though the information on their diversity is scattered. In an earlier effort, (Trigunayat, 2008) listed 125 species of Papilionoidea described from Rajasthan.

After that, (Das et al. 2023) most recently confirmed the presence of 124 species in Rajasthan. Apart from them over the years, the following researchers have made a substantial contribution to our understanding of Rajasthan's Papilionoidea fauna: MacPherson (1927), Kushwaha et al. (1963), Gupta & Thakur (1986), and Varshney & Gupta (1996) were among the primary contributors. More recently, Kazmi et al. (2003), Palot & Soniya (2000, 2001, 2005), Trigunayat & Singh (1998), Maulik (2004), Sharma (2011, 2012, 2013, 2014, 2018), Kulshrestha & Jain (2016), Ghorpade (2016), Jangid et al. (2016), Rajpurohit et al. (2017), Singh et al. (2017), Choudhary et al. (2019), Bhagat (2020), Khandal & Sharma (2020), Kaur et al. (2020), Meena (2020), Panwar (2020), Sundar et al. (2020), Tripathi & Koli (2020), Chandra et al. (2021), Gehlot et al. (2021), Sengupta (2021), Meena et al. (2021), Prajapat & Meena (2021), Prajapat et al. (2021), Prajapat et al. (2023) and Panwar & Patel (2023).

This study aims to consolidate fragmented information on Papilionoidea documented in Rajasthan and present the first comprehensive species inventory with distributional records within the state.

Materials and Methods

Study area

Rajasthan is located in the northwestern part of India between 23.3º N and 30.12º N latitudes and 69.30º E and 78.17º E longitudes.

Methods

The current checklist of Papilionoidea species in Rajasthan was assembled through a comprehensive examination of published literature. No specimens were collected during the study. The taxa are organized according to the updated classification system proposed by van Nieukerken et al. (2011). The checklist is organized systematically up to the subfamily level and then alphabetically. The scientific names of the described species and subspecies included herein have been updated from Funet.fi (Savela, 2024) and Lepindex (Beccaloni et al. 2024). In addition to the scientific names, the referenced sources and distribution of each species and subspecies have also been provided in the corresponding columns in Table 1. Reliable references were used to cross-check the known range of the species under consideration: Evans (1932), Wynter-Blyth (1957), Varshney & Smetacek (2015), and Kehimar (2016).

Results

The checklist incorporated 204 species and subspecies from 101 genera across six Papilionoidea families documented in the study area. A detailed list of reported species, their references, and distributional records within Rajasthan is provided (Table 1). The distribution by family reveals Lycaenidae as the most prevalent, with 61 species and subspecies (29.9%) across 5 subfamilies and 35 genera. The family Nymphalidae follows this with 57 species and subspecies (27.9%) across 8 subfamilies and 27 genera, Pieridae with 39 species and subspecies (19.1%) across 2 subfamilies and 16 genera, Hesperiidae with 32 species and subspecies (15.7%) across 3 subfamilies and 19 genera, Papilionidae with 14 species and subspecies (6.9%) in 1 subfamily and 3 genera, and Riodinidae with 1 species (0.5%) in 1 subfamily and 1 genus. Among these, 21 species (10.3%) are protected under India's Wildlife (Protection) Amendment Act, 2022 (Anonymous, 2022). Specifically, one species is listed under Schedule I, while 20 are listed under Schedule II of the above act (Table 1). In the protected category, the family Nymphalidae has the most representation with 9 species, followed by Lycaenidae with 6 species, Papilionidae with 3 species, and Pieridae with 3 species.

The checklist underscores the importance of Rajasthan as a hotspot for Papilionoidea diversity, with varying habitats supporting a wide range of species despite having inhospitable environmental conditions. Further studies are warranted to elucidate the ecological requirements of various species in Rajasthan.

Table 1. Systematic checklist of Papilionoidea from Rajasthan (India).

Scientific name	Reference(s)	Distribution	WPA-2022 status
Family PAPILIONIDAE Subfamily Papilioninae			
Graphium agamemnon agamemnon (Linnaeus, 1758)	MacPherson (1927), Kushwaha et al. (1963), Sharma (2014), Sharma & Dhadeech (2014), Jangid et al. (2016), Kulshrestha & Jain (2016), Choudhary et al. (2019), Bhagat (2020), Prajapat et al. (2023)	Ajmer, Jaipur, Jhalawar, Kota, Mount Abu, Pratapgarh, Sirohi, Udaipur	
Graphium agamemnon menides (Fruhstorfer, 1904)	Gupta & Thakur (1986)	Mount Abu, Pali, Udaipur	
Graphium doson (C. & R. Felder, 1864)	Sharma (2014), Sharma (2018), Prajapat et al. (2023)	Jaipur, Mount Abu, Udaipur	
Graphium nomius (Esper, 1799)	MacPherson (1927), Gupta & Thakur (1986), Kazmi et al. (2003), Gasse (2013), Varshney & Smetacek (2015), Bhagat (2020)	Jaipur, Jodhpur, Mount Abu, Kota	
Graphium sarpedon (Linnaeus, 1758)	Sharma (2012), Sharma (2014)	Mount Abu, Pali, Udaipur	Sch-II
Graphium teredon (C. & R. Felder, [1865])	Das et al. (2023)	Rajasthan	
Pachliopta aristolochiae (Fabricius, 1775)	MacPherson (1927), Kushwaha et al. (1963), Gupta & Thakur (1986), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat & Saxena (2009) Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Kulshrestha & Jain (2016), Ghorpade (2016), Jangid et al. (2016), Sharma (2018), Bhagat (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Alwar, Barmer, Bharatpur, Dholpur, Jaipur, Jaipur, Jhalawar, Jodhpur, Kota, Mount Abu, Pali, Pratapgarh, Rajsamand, Sirohi, Sriganganagar, Udaipur	
Pachliopta hector Linnaeus, 1758	MacPherson (1927), Trigunayat & Singh (1998), Sharma (2014), Ghorpade (2016), Jangid et al. (2016), Sharma (2018)	Ajmer, Bharatpur, Hanumangarh, Jaipur, Jodhpur, Mount Abu, Sirohi, Sriganganagar	Sch-II
Papilio demoleus Linnaeus, 1758	MacPherson (1927), Kushwaha et al. (1963), Gupta & Thakur (1986), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Sharma (2012), Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Kulshrestha & Jain (2016), Ghorpade (2016), Jangid et al. (2016), Rajpurohit et al. (2017), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Alwar, Barmer, Bharatpur, Bikaner, Churu, Dholpur, Jaipur, Jhalawar, Jodhpur, Kota, Mount Abu, Nagaur, Pali, Pratapgarh, Rajsamand, Sirohi, Udaipur	
Papilio machaon Linnaeus, 1758	Trigunayat & Singh (1998)	Jaipur	Sch-II

Papilio polymnestor Cramer, [1775]	Trigunayat (2008), Gehlot et al. (2021)	Jodhpur	
Papilio polyctor Boisduval, 1838	Sharma (2014)	Mount Abu	
Papilio polytes polytes (Linnaeus, 1758)	Kushwaha et al. (1963), Gupta & Thakur (1986), Trigunayat & Singh (1998), Palot & Soniya (2001), Trigunayat & Saxena (2009) Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Jangid et al. (2016), Rathoure (2016), Sharma (2018), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Bharatpur, Bikaner, Churu, Dholpur, Jaipur, Jalore, Jhunjhunu, Jodhpur, Mount Abu, Neem Ka Thana, Pali, Pratapgarh, Rajsamand, Sirohi, Sriganganagar, Udaipur	
Papilio polytes romulus Cramer, [1775]	MacPherson (1927), Gupta & Thakur (1986), Kazmi et al. (2003), Maulik (2004), Ghorpade (2016), Choudhary et al. (2019), Bhagat (2020)	Barmer, Bharatpur, Jhunjhunu, Jodhpur, Kota, Mount Abu, Udaipur	
Family PIERIDAE **Subfamily Pierinae**			
Appias albina (Boisduval, 1838)	Kulshrestha & Jain (2016), Ghorpade (2016), Jangid et al. (2016), Bhagat (2020)	Ajmer, Bharatpur, Jhalawar, Kota	Sch-II
Appias libythea (Fabricius, 1775)	MacPherson (1927), Trigunayat (2008), Gasse (2013), Varshney & Smetacek (2015), Jangid et al. (2016), Choudhary et al. (2019)	Ajmer, Mount Abu, Udaipur	
Aporia agathon (Gray, 1831)	Trigunayat (2008)	Bharatpur	
Belenois aurota (Fabricius, 1793)	MacPherson (1927), Kushwaha et al. (1963), Gupta & Thakur (1986), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Kulshrestha & Jain (2016), Ghorpade (2016), Jangid et al. (2016), Rajpurohit et al. (2017), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Kaur et al. (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Alwar, Bharatpur, Bundi, Churu, Dholpur, Dungarpur, Jaipur, Jhunjhunu, Jodhpur, Jhalawar, Mount Abu, Pali, Pratapgarh, Rajsamand, Sirohi, Udaipur	
Cepora nerissa nerissa (Fabricius, 1775)	MacPherson (1927), Kushwaha et al. (1963), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Gasse (2013), Sharma (2014), Sharma & Dhadeech (2014), Ghorpade (2016), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Prajapat et al. (2023)	Ajmer, Alwar, Barmer, Bharatpur, Bikaner, Dholpur, Jaipur, Jodhpur, Kota, Mount Abu, Pali, Pratapgarh, Sirohi, Sriganganagar, Udaipur	
Cepora nerissa evagete (Cramer, [1779])	Varshney & Smetacek (2015)	Rajasthan	
Cepora nadina (Lucas, 1852)	Trigunayat & Saxena (2009)	Dholpur	Sch-II

Colotis amata amata (Fabricius, 1775)	MacPherson (1927), Kushwaha et al. (1963), Gupta & Thakur (1986), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Gasse (2013), Sharma (2014), Varshney & Smetacek (2015), Jangid et al. (2016), Bhagat (2020), Kaur et al. (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Bharatpur, Churu, Dholpur, Jaipur, Jodhpur, Mount Abu, Kota, Pali, Udaipur	
Colotis amata modesta (Butler, 1876)	Singh et al. (2017)	Udaipur	
Colotis danae danae (Fabricius, 1775)	MacPherson (1927), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Gasse (2013), Ghorpade (2016), Jangid et al. (2016), Bhagat (2020), Kaur et al. (2020)	Ajmer, Bharatpur, Churu, Dholpur, Jaipur, Jodhpur, Jodhpur, Mount Abu, Kota	
Colotis danae dulcis (Butler, 1876)	Gupta & Thakur (1986), Ghorpade (2016)	Bharatpur	
Colotis etrida (Boisduval, 1838)	MacPherson (1927), Kushwaha et al. (1963), Gupta & Thakur (1986), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Gasse (2013), Sharma (2014), Varshney & Smetacek (2015), Ghorpade (2016), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Kaur et al. (2020), Prajapat et al. (2023)	Ajmer, Barmer, Bharatpur, Churu, Dholpur, Jaipur, Jalore, Jhalawar, Jodhpur, Mount Abu, Kota, Nagaur, Pali, Pilan, Sawai Madhopur, Udaipur	
Colotis eucharis (Fabricius, 1775)	Trigunayat & Singh (1998), Palot & Soniya (2001), Trigunayat (2008), Trigunayat & Saxena (2009) Sharma (2014), Sharma (2018), Prajapat et al. (2023)	Bharatpur, Dholpur, Jaipur, Jodhpur, Pali, Rajsamand, Sriganganagar, Udaipur	
Colotis fausta fausta (Olivier, 1804)	MacPherson (1927), Trigunayat & Singh (1998), Palot & Soniya (2001), Varshney & Smetacek (2015), Ghorpade (2016), Kaur et al. (2020), Prajapat et al. (2023)	Bharatpur, Churu, Jaipur, Jodhpur, Mount Abu	
Colotis fausta faustina (C. & R. Felder, [1865])	Gupta & Thakur (1986), Gasse (2013)	Jodhpur, Mount Abu	
Colotis fausta fulvia (Wallace, 1867)	Choudhary *et al.* (2019)	Udaipur	
Colotis phisadia (Godart, 1819)	Varshney & Smetacek (2015), Kaur et al. (2020)	Churu	

Colotis protractus Butler, 1876	MacPherson (1927), Gupta & Thakur (1986), Maulik (2004), Gasse (2013), Varshney & Smetacek (2015), Choudhary et al. (2019)	Jaisalmer, Jodhpur, Udaipur	
Colotis vestalis (Butler, 1876)	MacPherson (1927), Kushwaha et al. (1963), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Sharma (2014), Ghorpade (2016), Jangid et al. (2016), Choudhary et al. (2019), Bhagat (2020), Gehlot et al. (2021)	Ajmer, Alwar, Bharatpur, Jaipur, Jodhpur, Kota, Udaipur	
Delias eucharis (Drury, 1773)	MacPherson (1927), Kushwaha et al. (1963) Gupta & Thakur (1986), Trigunayat (2008), Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019), Prajapat et al. (2023)	Ajmer, Alwar, Bharatpur, Jaipur, Jodhpur, Mount Abu, Pali, Pratapgarh, Rajsamand, Sirohi, Udaipur	
Hebomoia glaucippe (Linnaeus, 1758)	Sharma (2014), Rajpurohit et al. (2017), Bhagat (2020)	Jodhpur, Kota, Sirohi	
Ixias marianne (Cramer, [1779])	MacPherson (1927), Kushwaha et al. (1963), Gupta & Thakur (1986), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Gasse (2013), Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Kulshrestha & Jain (2016), Jangid et al. (2016), Rathoure (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Prajapat et al. (2023)	Ajmer, Alwar, Barmer, Bharatpur, Bikaner, Dholpur, Jaipur, Jhalawar, Jodhpur, Mount Abu, Kota, Neem Ka Thana, Pali, Pratapgarh, Rajsamand, Sikar, Sirohi, Sriganganagar, Udaipur	
Ixias pyrene (Linnaeus, 1764)	MacPherson (1927), Kushwaha et al. (1963), Trigunayat & Singh (1998), Palot & Soniya (2001), Trigunayat (2008), Trigunayat & Saxena (2009), Gasse (2013), Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Varshney & Smetacek (2015), Ghorpade (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020)	Ajmer, Alwar, Bharatpur, Dholpur, Jaipur, Jodhpur, Mount Abu, Kota, Pali, Pratapgarh, Sirohi, Sriganganagar, Udaipur	
Leptosia nina (Fabricius, 1793)	Trigunayat & Singh (1998), Palot & Soniya (2001), Trigunayat (2008), Trigunayat & Saxena (2009) Sharma (2014), Sharma & Dhadeech (2014), Ghorpade (2016), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020)	Ajmer, Bharatpur, Dholpur, Jaipur, Kota, Pratapgarh, Rajsamand, Udaipur	

Pareronia valeria (Cramer, 1776)	Trigunayat (2008), Sharma (2014), Ghorpade (2016), Sharma (2018)	Ajmer, Bharatpur, Sirohi	
Pieris brassicae (Linnaeus, 1758)	Trigunayat & Singh (1998), Trigunayat (2008), Trigunayat & Saxena (2009) Sharma (2014), Sharma & Dhadeech (2014), Ghorpade (2016), Sharma (2018)	Ajmer, Barmer, Bharatpur, Churu, Dholpur, Jaipur, Jodhpur, Pratapgarh, Rajsamand, Sriganganagar, Udaipur	
Pieris canidia canidia (Linnaeus, 1768)	Trigunayat (2008), Trigunayat & Saxena (2009), Sharma (2014), Sharma (2018), Kaur et al. (2020)	Ajmer, Bharatpur, Churu, Dholpur, Jaipur, Rajsamand, Sirohi, Sriganganagar	
Pieris canidia indica Evans, 1926	Ghorpade (2016)	Bharatpur	
Pontia glauconome (Klug, 1829)	Mukherjee et al. (2021)	Jaisalmer	
Prioneris thestylis (Doubleday, 1842)	Kushwaha et al. (1963), Trigunayat (2008)	Udaipur	
Coliadinae			
Catopsilia pomona (Fabricius, 1775)	MacPherson (1927), Kushwaha et al. (1963), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma (2014), Sharma & Dhadeech (2014), Kulshrestha & Jain (2016), Ghorpade (2016), Jangid et al. (2016), Rajpurohit et al. (2017), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Bharatpur, Dholpur, Hanumangarh, Jaipur, Jhalawar, Jodhpur, Kota, Mount Abu, Pratapgarh, Sirohi, Sriganganagar, Udaipur	
Catopsilia pyranthe (Linnaeus, 1758)	MacPherson (1927), Kushwaha et al. (1963), Gupta & Thakur (1986), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Kulshrestha & Jain (2016), Ghorpade (2016), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Bharatpur, Dholpur, Jaipur, Jhalawar, Jhunjhunu, Jodhpur, Kota, Mount Abu, Pali, Pratapgarh, Rajsamand, Sirohi, Udaipur	
Colias fieldii Ménétriés, 1855	Trigunayat & Singh (1998), Trigunayat & Saxena (2009), Sharma (2014), Sharma & Dhadeech (2014), Ghorpade (2016), Sharma (2018)	Bharatpur, Dholpur, Jaipur, Pratapgarh, Sirohi, Sriganganagar	
Eurema andersoni (Moore, 1886)	Trigunayat (2008), Ghorpade (2016), Jangid et al. (2016),	Ajmer, Bharatpur	Sch-II
Eurema blanda (Boisduval, 1838)	Sharma (2014), Jangid et al. (2016), Sharma (2018)	Sirohi, Ajmer, Sriganganagar	
Eurema brigitta brigitta (Stoll, 1780)	Palot & Soniya (2001), Trigunayat & Saxena (2009), Jangid et al. (2016), Choudhary et al. (2019)	Ajmer, Bharatpur, Dholpur, Udaipur	

Eurema brigitta rubella (Wallace, 1867)	MacPherson (1927), Gupta & Thakur (1986), Trigunayat & Singh (1998), Trigunayat (2008), Ghorpade (2016), Choudhary et al. (2019)	Ajmer, Alwar, Bharatpur, Jodhpur, Udaipur	
Eurema hecabe (Linnaeus, 1758)	MacPherson (1927), Gupta & Thakur (1986), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma & Dhadeech (2013), Sharma & Dhadeech (2014), Sharma (2014), Kulshrestha & Jain (2016), Ghorpade (2016), Jangid et al. (2016), Rathoure (2016), Rajpurohit et al. (2017), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Alwar, Bharatpur, Dholpur, Dungarpur, Jaipur, Jhalawar, Jhunjhunu, Jodhpur, Mount Abu, Neem Ka Thana, Kota, Pali, Pratapgarh, Rajsamand, Sirohi, Sriganganagar, Udaipur	
Eurema laeta (Boisduval, 1838)	MacPherson (1927), Trigunayat & Singh (1998), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Gasse (2013), Sharma (2014), Varshney & Smetacek (2015), Ghorpade (2016), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Alwar, Bharatpur, Dholpur, Dungarpur, Jaipur, Jhalawar, Jodhpur, Kota, Mount Abu, Pali, Sriganganagar, Sirohi, Udaipur	
Familia NYMPHALIDAE **Subfamilia Danainae**			
Danaus chrysippus (Linnaeus, 1758)	MacPherson (1927), Kushwaha et al. (1963), Gupta & Thakur (1986), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Maulik (2004), Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Kulshrestha & Jain (2016), Ghorpade (2016), Jangid et al. (2016), Rathoure (2016), Rajpurohit et al. (2017), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Kaur et al. (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Alwar, Barmer, Bharatpur, Bhilwara, Churu, Dungarpur, Jaipur, Jalore, Jhalawar, Jhunjhunu, Jodhpur, Mount Abu, Kota, Nagaur, Neem Ka Thana, Pali, Pratapgarh, Rajsamand, Sriganganagar, Udaipur	

Danaus genutia (Cramer, 1779)	MacPherson (1927), Kushwaha et al. (1963), Gupta & Thakur (1986), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat & Saxena (2009), Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Ghorpade (2016), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Gehlot et al. (2021)	Ajmer, Alwar, Bharatpur, Bikaner, Chittorgarh, Dholpur, Dungarpur, Hanumangarh, Jaipur, Jhunjhunu, Jodhpur, Kota, Mount Abu, Pali, Pratapgarh, Rajsamand, Sirohi, Udaipur	
Euploea core Cramer, [1780])	MacPherson (1927), Kushwaha et al. (1963), Gupta & Thakur (1986), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat & Saxena (2009), Sharma & Dhadeech (2014), Sharma (2014), Ghorpade (2016), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020)	Ajmer, Barmer, Bharatpur, Dholpur, Jaipur, Jhunjhunu, Jodhpur, Kota, Mount Abu, Nagaur, Pali, Pratapgarh, Rajsamand, Sikar, Sirohi, Sriganganagar, Udaipur	
Parantica aglea (Stoll, 1782)	Trigunayat & Singh (1998), Sharma (2014), Kulshrestha & Jain (2016), Ghorpade (2016), Bhagat (2020)	Bharatpur, Jaipur, Jhalawar, Kota, Sirohi	
Tirumala limniace limniace (Cramer, [1775])	MacPherson (1927), Kushwaha et al. (1963), Trigunayat & Singh (1998), Palot & Soniya (2001), Trigunayat & Saxena (2009), Sharma (2014), Sharma & Dhadeech (2014), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Bharatpur, Dholpur, Jaipur, Jodhpur, Mount Abu, Pratapgarh, Sriganganagar, Udaipur	
Tirumala limniace leopardus (Butler, 1866)	Trigunayat & Singh (1998), Kazmi et al. (2003), Ghorpade (2016)	Bharatpur, Jaipur, Jodhpur, Sirohi	
Tirumala limniace exotica (Gmelin, 1790)	Sharma (2012)	Mount Abu	
Tirumala septentrionis (Butler, 1874)	Sharma (2014), Ghorpade (2016), Sharma (2018)	Bharatpur, Hanumangarh, Sriganganagar, Sirohi	
Satyrinae			
Lethe rohria rohria (Fabricius, 1787)	Trigunayat (2008), Sharma (2014)	Mount Abu	
Lethe rohria neelgheriensis (Guérin-Méneville, 1843)	MacPherson (1927), Gasse (2013), Varshney & Smetacek (2015)	Mount Abu	
Melanitis leda leda (Linnaeus, 1758)	Kushwaha et al. (1963), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma (2014), Sharma & Dhadeech (2014), Ghorpade (2016), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Gehlot et al. (2021)	Ajmer, Alwar, Barmer, Bharatpur, Dholpur, Hanumangarh, Jodhpur, Kota, Pali, Pratapgarh, Mount Abu, Sriganganagar, Udaipur	

Melanitis leda ismene (Cramer, [1775])	MacPherson (1927), Gupta & Thakur (1986), Trigunayat & Singh (1998), Ghorpade (2016)	Bharatpur, Jaipur, Jhunjhunu, Jodhpur, Mount Abu, Sirohi, Udaipur	
Melanitis phedima (Cramer, [1780])	MacPherson (1927), Gupta & Thakur (1986), Trigunayat & Singh (1998), Trigunayat (2008), Ghorpade (2016)	Ajmer, Bharatpur, Sirohi, Udaipur	
Melanitis zitenius (Herbst, 1796)	Trigunayat (2008)	Rajasthan	Sch-II
Mycalesis mineus mineus (Linnaeus, 1758)	MacPherson (1927), Palot & Soniya (2001), Trigunayat (2008), Sharma (2014), Sharma (2018), Bhagat (2020)	Alwar, Bharatpur, Jodhpur, Mount Abu, Kota	
Mycalesis mineus polydecta (Cramer, [1777])	Chandra et al. (2021)	Thar Desert (of Rajasthan)	
Mycalesis perseus (Fabricius, 1775)	Sharma (2014), Trigunayat & Saxena (2009), Rathoure (2016)	Dholpur, Neem Ka Thana, Sirohi	
Mycalesis visala Moore, [1858]	Trigunayat (2008)	Rajasthan	
Ypthima asterope (Klug, 1832)	MacPherson (1927), Trigunayat (2008), Sharma (2014), Jangid et al. (2016), Sharma (2018), Prajapat et al. (2023)	Ajmer, Alwar, Jaipur, Jodhpur, Mount Abu, Pali	
Ypthima baldus (Fabricius, 1775)	Trigunayat (2008), Sharma (2014), Sharma (2018)	Ajmer, Sriganganagar	
Ypthima huebneri Kirby, 1871	Trigunayat & Saxena (2009), Sharma (2014), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019)	Ajmer, Dholpur, Pali, Sirohi, Udaipur	
Heliconiinae			
Acraea violae (Fabricius, 1775)	Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Gasse (2013), Sharma (2014), Kulshrestha & Jain (2016), Ghorpade (2016), Jangid et al. (2016), Rathoure (2016), Bhagat (2020)	Ajmer, Banswara, Bharatpur, Churu, Dholpur, Jaipur, Jalore, Jhalawar, Jodhpur, Kota, Pali, Sriganganagar, Udaipur	
Argynnis hyperbius (Linnaeus, 1963)	MacPherson (1927), Trigunayat & Singh (1998), Trigunayat & Saxena (2009), Gasse (2013), Sharma (2014), Varshney & Smetacek (2015), Ghorpade (2016), Jangid et al. (2016), Sharma (2018)	Ajmer, Bharatpur, Dholpur, Jaipur, Jodhpur, Mount Abu	
Cupha erymanthis (Drury, 1773)	Sharma (2014)	Mount Abu	

Phalanta phalantha (Drury, [1773])	MacPherson (1927), Kushwaha et al. (1963), Gupta & Thakur (1986), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Ghorpade (2016), Jangid et al. (2016), Rathoure (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020)	Ajmer, Alwar, Barmer, Bharatpur, Churu, Dholpur, Jaipur, Jodhpur, Mount Abu, Kota, Neem Ka Thana, Pali, Pratapgarh, Sirohi, Sriganganagar, Udaipur	
Nymphalinae			
Hypolimnas bolina (Linnaeus, 1758)	MacPherson (1927), Kushwaha et al. (1963), Trigunayat & Singh (1998), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma (2014), Sharma & Dhadeech (2014), Ghorpade (2016), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Gehlot et al. (2021)	Ajmer, Bharatpur, Dholpur, Hanumangarh, Jaipur, Jodhpur, Mount Abu, Kota, Pratapgarh, Sriganganagar, Udaipur	
Hypolimnas misippus (Linnaeus, 1764)	MacPherson (1927), Kushwaha et al. (1963), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Ghorpade (2016), Rathoure (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Bharatpur, Dholpur, Bikaner, Jaipur, Jodhpur, Kota, Nagaur, Neem Ka Thana, Pali, Pratapgarh, Mount Abu, Udaipur	Sch-II
Junonia almana (Linnaeus, 1758)	MacPherson (1927), Kushwaha et al. (1963), Gupta & Thakur (1986), Trigunayat & Singh (1998), Palot & Soniya (2001), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Ghorpade (2016), Jangid et al. (2016), Rajpurohit et al. (2017), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Alwar, Barmer, Bharatpur, Churu, Dholpur, Hanumangarh, Jaipur, Jodhpur, Kota, Mount Abu, Pali, Pratapgarh, Mount Abu, Sriganganagar, Udaipur	

Junonia atlites (Linnaeus, 1963)	MacPherson (1927), Palot & Soniya (2001), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma (2014), Sharma & Dhadeech (2014), Kulshrestha & Jain (2016), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020)	Ajmer, Alwar, Bharatpur, Dholpur, Jaipur, Jhalawar, Kota, Pratapgarh, Mount Abu, Sriganganagar, Udaipur	
Junonia hierta (Fabricius, 1798)	MacPherson (1927), Kushwaha et al. (1963), Gupta & Thakur (1986), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Ghorpade (2016), Jangid et al. (2016), Rajpurohit et al. (2017), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Alwar, Bharatpur, Bundi, Churu, Dholpur, Jaipur, Jhunjhunu, Jodhpur, Mount Abu, Kota, Pali, Pratapgarh, Mount Abu, Sirohi, Udaipur	
Junonia iphita (Cramer, [1779])	Kushwaha et al. (1963), Trigunayat (2008), Sharma (2014), Sharma & Dhadeech (2014), Ghorpade (2016), Sharma (2018), Choudhary et al. (2019)	Ajmer, Alwar, Bharatpur, Hanumangarh, Jaipur, Pratapgarh, Sriganganagar, Sirohi, Udaipur	
Junonia lemonias lemonias (Linnaeus, 1758)	MacPherson (1927), Kushwaha et al. (1963), Trigunayat & Singh (1998), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Sharma & Dhadeech (2013), Sharma (2014), Sharma & Dhadeech (2014), Varshney & Smetacek (2015), Kulshrestha & Jain (2016), Ghorpade (2016), Jangid et al. (2016), Rajpurohit et al. (2017), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Alwar, Bharatpur, Jaipur, Jhalawar, Jodhpur, Kota, Mount Abu, Pali, Pratapgarh, Sirohi, Udaipur	
Junonia lemonias vaisya (Fruhstorfer, 1912)	Gupta & Thakur (1986), Varshney & Smetacek (2015)	Jodhpur, Mount Abu, Sirohi	
Junonia orithya orithya (Linnaeus, 1758)	MacPherson (1927), Kushwaha et al. (1963), Palot & Soniya (2001), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma & Dhadeech (2014), Kulshrestha & Jain (2016), Jangid et al. (2016), Rajpurohit et al. (2017), Choudhary et al. (2019), Bhagat (2020), Kaur et al. (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Bharatpur, Churu, Dholpur, Jaipur, Jhalawar, Jodhpur, Mount Abu, Kota, Pratapgarh, Udaipur	
Junonia orithya swinhoei Butler, 1885	Gupta & Thakur (1986), Gasse (2013), Ghorpade (2016)	Bharatpur, Jodhpur, Mount Abu, Sirohi, Udaipur	
Kaniska canace (Linnaeus, 1963)	Sengupta (2021)	Alwar	

Vanessa cardui (Linnaeus, 1758)	MacPherson (1927), Kushwaha et al. (1963), Trigunayat & Singh (1998), Kazmi et al. (2003), Trigunayat (2008), Sharma & Dhadeech (2014), Sharma (2014), Ghorpade (2016), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019), Prajapat et al. (2023)	Ajmer, Bharatpur, Hanumangarh, Jaipur, Jodhpur, Pali, Pratapgarh, Mount Abu, Sriganganagar, Udaipur	
Vanessa indica (Herbst, 1794)	Sharma (2014)	Mount Abu	
Limenitidinae			
Athyma perius (Linnaeus, 1758)	MacPherson (1927), Sharma (2014), Trigunayat (2008)	Mount Abu	
Euthalia aconthea (Cramer, [1777])	Trigunayat & Singh (1998), Trigunayat (2008), Sharma (2014), Gehlot et al. (2021)	Jaipur, Jodhpur, Udaipur	Sch-II
Moduza procris (Cramer, [1777])	Gehlot et al. (2021)	Jodhpur	
Neptis hylas hylas (Linnaeus, 1758)	Kushwaha et al. (1963), Trigunayat (2008), Sharma (2012), Sharma & Dhadeech (2013), Sharma (2014), Sharma (2018), Gehlot et al. (2021)	Ajmer, Barmer, Jaipur, Jodhpur, Mount Abu, Pali, Pratapgarh, Sirohi, Sriganganagar, Udaipur	
Neptis hylas varmona (Moore, 1872)	Jangid et al. (2016), Bhagat (2020)	Ajmer, Kota	
Neptis jumbah Moore, [1858]	Trigunayat (2008)	Rajasthan	Sch-II
Phaedyma columella (Cramer, [1780])	Trigunayat (2008)	Rajasthan	Sch-II
Symphaedra nais (Forster, 1771)	MacPherson (1927), Trigunayat (2008), Gasse (2013), Sharma (2014), Sharma & Dhadeech (2014), Varshney & Smetacek (2015), Jangid et al. (2016), Gehlot et al. (2021)	Ajmer, Jodhpur, Pratapgarh, Mount Abu, Udaipur	
Biblidinae			
Ariadne ariadne ariadne (Linnaeus, 1963)	Sharma (2014), Sharma & Dhadeech (2014), Sharma (2018)	Alwar, Bharatpur, Churu, Jalore, Jodhpur, Pratapgarh, Mount Abu, Sriganganagar, Udaipur	
Ariadne ariadne indica (Moore, 1884)	Sharma (2018)	Kota	
Ariadne merione merione (Cramer, [1777])	MacPherson (1927), Palot & Soniya (2001), Trigunayat & Saxena (2009), Sharma & Dhadeech (2013), Sharma (2014), Sharma (2018), Choudhary et al. (2019)	Alwar, Bharatpur, Dholpur, Pali, Mount Abu, Sriganganagar, Udaipur	
Ariadne merione tapestrina (Moore, 1884)	Ghorpade (2016)	Bharatpur	
Byblia ilithyia (Drury, [1773])	Trigunayat (2008), Jangid et al. (2016)	Ajmer	
Charaxinae			
Charaxes bernardus (Fabricius, 1793)	Gehlot et al. (2021)	Jodhpur	Sch-II

Charaxes solon (Fabricius, 1793)	MacPherson (1927), Kushwaha et al. (1963), Trigunayat (2008), Gasse (2013), Varshney & Smetacek (2015)	Kota, Mount Abu, Udaipur	Sch-II
Polyura agraria (Swinhoe, 1887)	Das et al. (2023)	Rajasthan	
Polyura athamas (Drury, 1773)	Kushwaha et al. (1963), Trigunayat (2008), Sharma (2014)	Sirohi, Udaipur	Sch-II
Polyura bharata (C. & R. Felder, [1867])	Das et al. (2023)	Rajasthan	
Apaturinae			
Dilipa morgiana (Westwood, 1850)	Jangid et al. (2016)	Ajmer	Sch-I
Family RIODINIDAE **Subfamily Nemeobiinae**			
Dodona durga (Kollar, [1844])	Sharma (2014), Sharma (2018)	Ajmer, Mount Abu, Jodhpur, Nagaur	
Family LYCAENIDAE **Subfamily Polyommatinae**			
Acytolepis puspa (Horsfield, 1828)	Sharma (2014), Jangid et al. (2016)	Ajmer	
Anthene lycaenina lycambes (Hewitson, 1878)	Trigunayat (2008), Chandra et al. (2021)	Rajasthan	Sch-II
Azanus jesous (Guérin-Méneville, 1849)	Trigunayat & Singh (1998), Trigunayat (2008), Sharma (2014), Jangid et al. (2016), Prajapat et al. (2023)	Ajmer, Jaipur	
Azanus ubaldus (Stoll, [1782])	MacPherson (1927), Trigunayat & Singh (1998), Palot & Soniya (2001), Trigunayat (2008), Gasse (2013), Ghorpade (2016), Jangid et al. (2016), Choudhary et al. (2019), Kaur et al. (2020), Prajapat et al. (2023)	Ajmer, Bharatpur, Bharatpur, Churu, Jaipur, Jodhpur, Udaipur	
Azanus uranus Butler, 1886	MacPherson (1927), Trigunayat & Singh (1998), Trigunayat (2008), Gasse (2013), Jangid et al. (2016), Kaur et al. (2020), Prajapat et al. (2023)	Ajmer, Churu, Jaipur, Jodhpur	
Castalius rosimon (Fabricius, 1775)	MacPherson (1927), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma (2014), Sharma & Dhadeech (2014), Kulshrestha & Jain (2016), Jangid et al. (2016), Sharma (2018), Choudhary et al. (2019), Bhagat (2020)	Ajmer, Alwar, Barmer, Dholpur, Hanumangarh, Jhalawar, Jodhpur, Kota, Pratapgarh, Mount Abu, Sriganganagar, Udaipur	
Catochrysops strabo (Fabricius, 1793)	MacPherson (1927), Trigunayat (2008), Sharma & Dhadeech (2014), Sharma (2014), Jangid et al. (2016), Sharma (2018)	Ajmer, Alwar, Bikaner, Jalore, Jodhpur, Pali, Pratapgarh, Mount Abu, Udaipur	
Celastrina huegelii (Moore, 1882)	Sharma (2014)	Mount Abu	
Chilades lajus (Stoll, [1780])	MacPherson (1927), Trigunayat (2008), Sharma (2014), Ghorpade (2016), Jangid et al. (2016), Choudhary et al. (2019)	Ajmer, Bharatpur, Jodhpur, Mount Abu, Udaipur	

Chilades parrhasius parrhasius (Fabricius, 1793)	Gasse (2013), Varshney & Smetacek (2015), Jangid et al. (2016)	Ajmer	
Chilades parrhasius minuta (Evans, 1932)	Trigunayat & Singh (1998)	Jaipur	
Cupido lacturnus (Godart, [1824])	Trigunayat (2008)	Rajasthan	
Euchrysops cnejus (Fabricius, 1798)	MacPherson (1927), Palot & Soniya (2001), Kazmi et al. (2003), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma (2014), Sharma & Dhadeech (2014), Ghorpade (2016), Jangid et al. (2016), Choudhary et al. (2019), Bhagat (2020), Kaur et al. (2020)	Ajmer, Bharatpur, Churu, Dholpur, Jaipur, Jodhpur, Kota, Pali, Pratapgarh, Mount Abu, Udaipur	
Freyeria putli (Kollar, [1844])	MacPherson (1927), Trigunayat & Singh (1998), Trigunayat & Saxena (2009), Ghorpade (2016)	Bharatpur, Dholpur, Jaipur, Jodhpur, Mount Abu	
Freyeria trochylus (Freyer, 1845)	Trigunayat (2008), Jangid et al. (2016), Choudhary et al. (2019), Kaur et al. (2020)	Ajmer, Bharatpur, Churu, Udaipur	
Jamides bochus (Stoll, 1782)	MacPherson (1927), Trigunayat (2008), Jangid et al. (2016)	Ajmer, Jodhpur	
Jamides celeno (Cramer, 1775)	Trigunayat (2008), Trigunayat & Saxena (2009), Sharma (2014), Jangid et al. (2016), Ghorpade (2016)	Ajmer, Bharatpur, Dholpur, Rajsamand	
Lampides boeticus (Linnaeus, 1767)	MacPherson (1927), Trigunayat (2008), Trigunayat & Saxena (2009), Sharma (2014), Sharma & Dhadeech (2014), Kulshrestha & Jain (2016), Ghorpade (2016), Jangid et al. (2016), Rajpurohit et al. (2017), Sharma (2018), Choudhary et al. (2019), Bhagat (2020), Kaur et al. (2020), Gehlot et al. (2021), Prajapat et al. (2023)	Ajmer, Barmer, Bharatpur, Churu, Dholpur, Jaipur, Jhalawar, Jodhpur, Mount Abu, Kota, Nagaur, Pali, Pratapgarh, Sriganganagar, Udaipur	
Leptotes plinius (Fabricius, 1793)	MacPherson (1927), Palot & Soniya (2001), Trigunayat (2008), Jangid et al. (2016), Ghorpade (2016), Choudhary et al. (2019), Bhagat (2020), Prajapat et al. (2023)	Ajmer, Bharatpur, Jaipur, Jodhpur, Mount Abu, Kota, Udaipur	
Luthrodes contracta (Butler, 1880)	Das et al. (2023)	Rajasthan	
Luthrodes ella (Moore, 1881)	Das et al. (2023)	Rajasthan	
Luthrodes pandava (Horsfield, [1829])	MacPherson (1927), Trigunayat & Singh (1998), Palot & Soniya (2001), Trigunayat (2008), Ghorpade (2016), Jangid et al. (2016), Choudhary et al. (2019), Kaur et al. (2020), Prajapat et al. (2023)	Ajmer, Bharatpur, Churu, Jaipur, Udaipur	
Megisba malaya malaya (Horsfield, [1828])	Trigunayat (2008)	Rajasthan	Sch-II
Megisba malaya sikkima Moore, 1884	Chandra et al. (2021)	Thar Desert (of Rajasthan)	

Neopithecops zalmora (Butler, [1870])	Trigunayat (2008)	Rajasthan	
Prosotas dubiosa indica (Evans, 1925)	Jangid et al. (2016)	Ajmer	Sch-II
Prosotas nora (C. Felder, 1860)	MacPherson (1927), Trigunayat (2008), Sharma (2014), Jangid et al. (2016)	Ajmer, Jodhpur	
Pseudozizeeria maha (Kollar, 1848)	MacPherson (1927), Palot & Soniya (2001), Trigunayat & Singh (1998), Trigunayat (2008), Ghorpade (2016), Jangid et al. (2016), Choudhary et al. (2019)	Ajmer, Bharatpur, Hanumangarh, Jaipur, Mount Abu, Sriganganagar, Udaipur	
Talicada nyseus (Guérin-Méneville, 1843)	Sharma (2014)	Mount Abu	
Tarucus balkanica (Freyer, 1844)	Das et al. (2023)	Rajasthan	
Tarucus callinara Butler, 1886	MacPherson (1927), Gupta & Thakur (1986), Choudhary et al. (2019), Kaur et al. (2020)	Churu, Jodhpur, Mount Abu, Udaipur	Sch-II
Tarucus extricatus Butler, 1886	Kazmi et al. (2003)	Jodhpur	
Tarucus indicus Evans, 1932	Trigunayat (2008), Gasse (2013), Varshney & Smetacek (2015)	Rajasthan	
Tarucus nara (Kollar, 1848)	Trigunayat (2008), Sharma (2014), Sharma & Dhadeech (2014), Varshney & Smetacek (2015), Jangid et al. (2016), Choudhary et al. (2019), Kaur et al. (2020), Prajapat et al. (2023)	Ajmer, Churu, Jaipur, Mount Abu, Pratapgarh, Udaipur	
Tarucus theophrastus (Fabricius, 1793)	MacPherson (1927), Palot & Soniya (2001)	Bharatpur, Jodhpur, Mount Abu	
Tarucus venosus Moore, 1882	Trigunayat (2008), Ghorpade (2016)	Bharatpur	
Zizeeria karsandra (Moore, 1865)	Trigunayat & Singh (1998), Trigunayat (2008), Sharma (2014), Ghorpade (2016), Jangid et al. (2016), Kaur et al. (2020)	Ajmer, Bharatpur, Churu, Jaipur	
Zizina otis otis (Fabricius, 1787)	Trigunayat (2008), Sharma (2014), Jangid et al. (2016), Choudhary et al. (2019)	Ajmer, Bharatpur, Mount Abu, Udaipur	
Zizina otis indica (Murray, 1874)	MacPherson (1927), Ghorpade (2016)	Bharatpur, Mount Abu	
Zizula hylax (Fabricius, 1775)	MacPherson (1927), Trigunayat & Singh (1998), Palot & Soniya (2001), Trigunayat (2008), Trigunayat & Saxena (2009), Ghorpade (2016), Jangid et al. (2016), Choudhary et al. (2019), Prajapat et al. (2023)	Ajmer, Bharatpur, Dholpur, Jaipur, Jodhpur, Mount Abu, Udaipur	
Theclinae			
Arhopala atrax (Hewitson, 1862)	Jangid et al. (2016)	Ajmer	
Arhopala amantes (Hewitson, 1862)	Trigunayat (2008)	Rajasthan	
Cigaritis acamas acamas (Klug, 1834)	Trigunayat (2008), Sharma (2014)	Alwar	
Cigaritis acamas hypargyros (Butler, 1886)	Gasse (2013), Chandra et al. (2021)	Rajasthan	
Cigaritis ictis (Hewitson, 1865)	MacPherson (1927), Trigunayat (2008), Gasse (2013), Varshney & Smetacek (2015)	Mount Abu	

Cigaritis lilacinus (Moore, 1884)	Sundar et al. (2020)	Southern Rajasthan	
Cigaritis vulcanus (Fabricius, 1775)	MacPherson (1927), Trigunayat (2008), Trigunayat & Saxena (2009), Gasse (2013), Ghorpade (2016), Jangid et al. (2016), Choudhary et al. (2019), Bhagat (2020)	Ajmer, Bharatpur, Dholpur, Mount Abu, Kota, Udaipur	
Deudorix isocrates (Fabricius, 1793)	MacPherson (1927), Kushwaha et al. (1963), Trigunayat (2008)	Mount Abu, Udaipur	
Pratapa deva (Moore, [1858])	Sharma (2014)	Aravalli range (of Rajasthan)	Sch-II
Rapala iarbus iarbus (Fabricius, 1787)	Trigunayat (2008), Tripathi & Koli (2020)	Bhilwara	
Rapala iarbus sorya (Kollar, 1848)	MacPherson (1927), Gasse (2013)	Mount Abu, Jodhpur	
Rapala manea (Hewitson, 1863)	Meena (2020)	Udaipur	
Rathinda amor (Fabricius, 1775)	Trigunayat (2008)	Rajasthan	
Surendra vivarna (Horsfield, [1829])	Trigunayat (2008)	Rajasthan	
Tajuria cippus (Fabricius, 1798)	Trigunayat (2008), Choudhary et al. (2019)	Udaipur	Sch-II
Zesius chrysomallus Hübner, 1821	Trigunayat (2008), Sharma (2014)	Mount Abu	
Miletinae			
Spalgis epius (Westwood, 1852)	Trigunayat (2008), Sharma (2014)	Ajmer	
Curetinae			
Curetis acuta acuta Moore, 1877	Trigunayat (2008), Rajpurohit et al. (2017)	Udaipur	
Curetis acuta dentata Moore, 1879	Trigunayat (2008)	Rajasthan	
Curetis thetis (Drury, [1773])	Trigunayat (2008)	Rajasthan	
Lycaeninae			
Heliophorus tamu (Kollar, [1844])	Trigunayat (2008)	Rajasthan	
Family HESPERIIDAE **Subfamily Hesperiinae**			
Arnetta vindhiana (Moore, [1884])	MacPherson (1927), Evans (1949), Gasse (2013), Varshney & Smetacek (2015)	Mount Abu	
Borbo cinnara (Wallace, 1866)	MacPherson (1927), Sharma (2014)	Ajmer, Mount Abu	
Caltoris kumara (Moore, 1878)	Palot & Soniya (2001), Trigunayat (2008), Ghorpade (2016)	Bharatpur	
Parnara bada (Moore, 1878)	MacPherson (1927), Trigunayat (2008), Ghorpade (2016)	Bharatpur, Mount Abu	
Parnara guttatus (Bremer & Grey, [1852])	Sharma (2014), Jangid et al. (2016), Sharma (2018)	Ajmer, Alwar, Barmer, Jodhpur, Pali, Sriganganagar	
Pelopidas conjuncta (Herrich-Schäffer, 1869)	Chandra et al. (2021)	Thar Desert (of Rajasthan)	
Pelopidas mathias (Fabricius, 1798)	MacPherson (1927), Evans (1949), Kushwaha et al. (1963), Kazmi et al. (2003), Sharma (2014), Jangid et al. (2016), Prajapat et al. (2023)	Ajmer, Barmer, Jaipur, Jodhpur, Mount Abu, Udaipur	

Potanthus dara (Kollar, [1844])	MacPherson (1927)	Mount Abu	
Potanthus pseudomaesa (Moore, [1881])	Evans (1949), Gasse (2013), Varshney & Smetacek (2015)	Mount Abu	
Suastus gremius (Fabricius, 1798)	MacPherson (1927), Palot & Soniya (2001), Trigunayat (2008), Trigunayat & Saxena (2009), Ghorpade (2016), Jangid et al. (2016), Bhagat (2020)	Ajmer, Bharatpur, Dholpur, Kota, Mount Abu	
Taractrocera maevius maevius (Fabricius, 1793)	Trigunayat & Singh (1998), Trigunayat (2008)	Bharatpur, Jaipur	
Taractrocera maevius sagara (Moore, [1865])	Ghorpade (2016)	Bharatpur	
Telicota augias (Linnaeus, 1963)	Chandra et al. (2021)	Thar Desert (of Rajasthan)	
Telicota bambusae (Moore, 1878)	Chandra et al. (2021)	Thar Desert (of Rajasthan)	
Udaspes folus (Cramer, [1775])	MacPherson (1927), Trigunayat & Singh (1998), Trigunayat (2008), Ghorpade (2016)	Bharatpur, Jaipur, Mount Abu	
Pyrginae			
Caprona ransonnetii (Felder, 1868)	MacPherson (1927)	Mount Abu	
Celaenorrhinus ambareesa (Moore, [1866])	Chandra et al. (2021)	Thar Desert (of Rajasthan)	
Coladenia indrani indrani (Moore, [1866])	Chandra et al. (2021)	Thar Desert (of Rajasthan)	
Coladenia indrani indra Evans, 1926	Khandal & Sharma (2020)	Sawai Madhopur	
Ernsta zebra (Butler, 1888)	Panwar (2020), Panwar & Patel (2023), Prajapat et al. (2023)	Ajmer, Chittorgarh, Dungarpur, Pali, Pratapgarh, Rajasamand, Sirohi, Udaipur	
Pseudocoladenia dan (Fabricius, 1787)	MacPherson (1927)	Mount Abu	
Sarangesa dasahara dasahara Moore, [1866]	MacPherson (1927), Choudhary et al. (2019)	Mount Abu, Udaipur	
Sarangesa dasahara adona (Evans, 1949)	Evans (1949), Gasse (2013), Varshney & Smetacek (2015)	Mount Abu	
Sarangesa purendra purendra Moore, 1882	MacPherson (1927), Jangid et al. (2016), Choudhary et al. (2019)	Ajmer, Mount Abu, Udaipur	
Sarangesa purendra pandra (Evans, 1949)	Evans (1949), Gasse (2013), Varshney & Smetacek (2015)	Mount Abu	
Sarangesa sati de Nicéville, 1891	de Niceville (1891), Khandal & Sharma (2020)	Sawai Madhopur	
Spialia galba (Fabricius, 1793)	MacPherson (1927), Sharma (2014), Jangid et al. (2016), Kaur et al. (2020)	Ajmer, Churu, Mount Abu	
Spialia doris evanida (Butler, 1880)	Meena et al. (2021)	Jaisalmer	
Coeliadinae			
Badamia exclamationis (Fabricius, 1775)	MacPherson (1927), Trigunayat (2008), Trigunayat & Saxena (2009), Ghorpade (2016), Choudhary et al. (2019)	Bharatpur, Dholpur, Mount Abu	
Hasora chromus (Cramer, 1780)	MacPherson (1927), Trigunayat & Saxena (2009), Jangid *et al.* (2016)	Ajmer, Dholpur, Mount Abu	
Hasora vitta vitta (Butler, 1870)	Trigunayat (2008)	Bharatpur	
Hasora vitta indica Evans, 1932	Ghorpade (2016)	Bharatpur	

Abbreviation used:

WPA-2022 = Wildlife (Protection) Amendment Act, 2022 of India.

Sch-I = Schedule-I; Sch-II = Schedule-II.

Discussion

The current study provides Rajasthan's first thorough inventory of Papilionoidea species, incorporating previously dispersed data and distributional records and considerably enhancing the state's known diversity. The checklist of 204 species and subspecies across 101 genera and six families marks a substantial increase from earlier records by Trigunayat (2008) and Das et al. (2023), who listed 125 and 124 species, respectively. However, as already indicated, both investigations mentioned above only included species data. This expansion underscores the rich biodiversity of Rajasthan's Papilionoidea and highlights the importance of continued research and conservation efforts.

Certain species were excluded from the list: *Kallima paralekta* (Horsfield, [1829]) of the Nymphalidae family, *Hesperilla ornata* (Leach, 1814), *Gegenes nostrodamus* (Fabricius, 1793), and *Spialia doris* (Walker, 1870) of the Hesperiidae family. *K. paralekta* is endemic to Indonesia and was reported from Jodhpur by Gehlot et al. (2021) based on photographic records without physical specimens. The genus *Kallima* Doubleday, 1849, includes four species in the Indian subcontinent: *K. horsfieldi, K. albofasciata, K. knyvetti*, and *K. inachus* (Varshney & Smetacek, 2015; Kehimkar, 2016). *H. ornata* was reported from Bikaner (Bhati & Srivastava, 2016), but this identification may be erroneous as *H. ornata* is typically found along the non-tropical eastern coast of Australia (Braby, 2004), making its presence in India doubtful. *G. nostrodamus* and *S. doris* were excluded because they were recorded from Deesa (Rajputana) (Evans, 1949), now part of Gujarat state.

A noteworthy aspect of the findings is the documentation of 21 species listed under Schedule I and II of the Wildlife (Protection) Amendment Act, 2022. The inclusion of protected species highlights Rajasthan's ecological significance and the necessity for stringent conservation measures in light of ongoing habitat loss and climate change.

Conclusion

This study significantly enhances our understanding of Papilionoidea diversity in Rajasthan, providing crucial baseline information for future ecological and conservation research. Further research should focus on detailed ecological studies to understand lesser-known species' habitat preferences and life cycles.

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Conflict of Interest

The authors declare that there is no known financial interest or personal relationship that could have influence the work presented in this article.

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