

1st Butterfly Survey at Ratapani Wildlife Sanctuary, 2021

The 1st butterfly survey was organized in Ratapani Wildlife Sanctuary, Madhya Pradesh from 10th to 12th September 2021. The survey was a collaborative effort of the M.P. Forest Department, TINSA Ecological Foundation (a Bhopal-based NGO), and Wild Warriors (an Indore-based NGO).

The event commenced on 10th September 2021, with the arrival of the participants from different states. The orientation was conducted the same day followed by the introduction to the methodology adopted for the survey by Ms. Pinal Patel, President (President), TINSA Ecological Foundation, followed by the importance of the butterflies and their ecological importance by Mr. Sameer Kumar (Vice-president), TINSA Ecological Foundation. Mr. Vijay Kumar, DFO, Obedullahganj, briefed the volunteers about the survey and their expectations from the survey, and the takeaways for the participants from one of the first surveys conducted in the Ratapani WLS. The chief guest for the day was Mr. Aseem Shrivastava (APCCF). Mr. N.S. Dungriyal (Retd. APCCF), Mr. K. Raman (APCCF) and Mr. Shubhranjan Sen (APCCF) also joined the volunteers to enhance their zeal and enthusiasm during the survey.

Study area

Ratapani Wildlife Sanctuary is located in the Raisen district of Madhya Pradesh, which is a part of the Vindhyan Range in Central India. Ratapani WLS has one of the finest teak forests in the state. The total forest area is 825.90 sq km.

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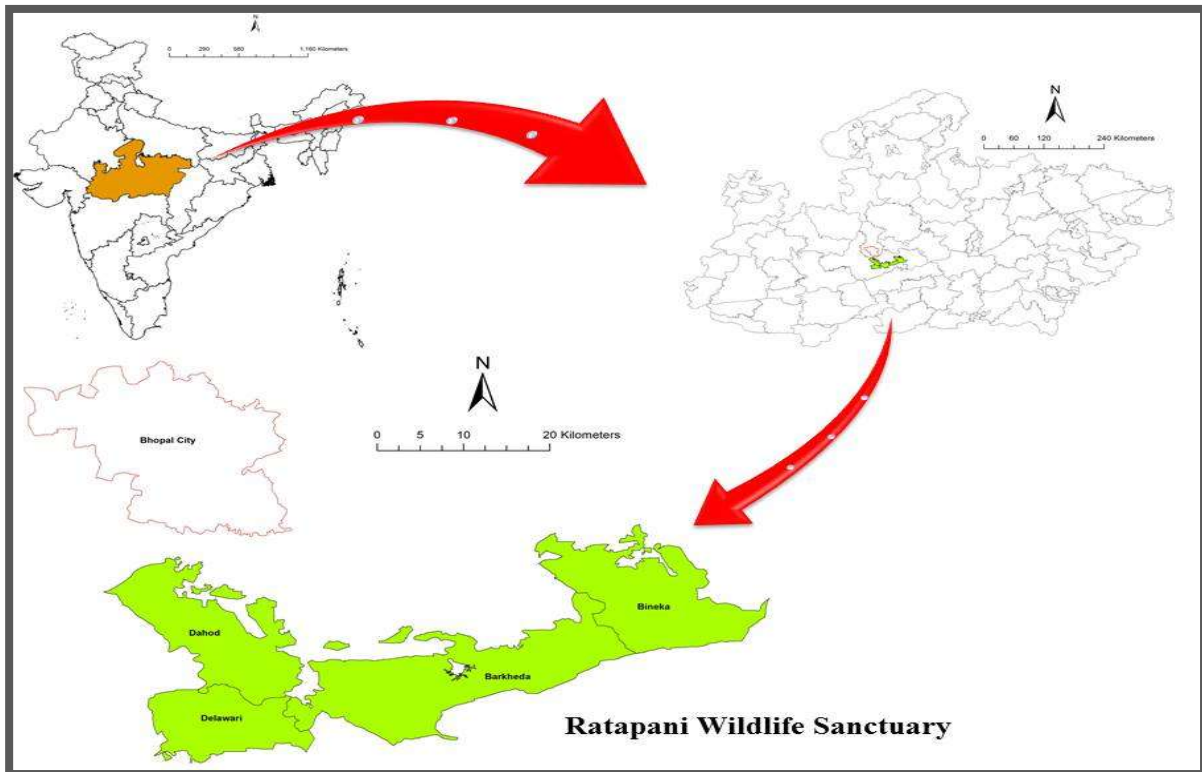


Figure 1- Study area: Ratapani Wildlife Sanctuary, Madhya Pradesh

The forest of Ratapani is dry deciduous and moist deciduous type, with teak (*Tectona grandis*) as the main tree species. About 55% of the area is covered by teak. The remaining mixed forests consist of various dry deciduous species. The sanctuary is rich in flora and fauna and a wide variety of birds and mammals call it their home. The total forest area is 825.90 square kilometers (318 sq mi) and the landscape is undulating, with hills, plateaus, valleys, and plains. Carnivores in the sanctuary include the tiger, leopard, dhole, hyena, jackal, and fox, and the herbivores include chital, sambar, nilgai, four-horned antelope, langur, and wild boar, and primates: langur and rhesus macaque. The omnivorous sloth bear is also seen often. Smaller animals, like squirrels, mongooses, gerbils, porcupines, hares, etc. are of common occurrence. Among reptiles, important species include different kinds of lizards, chameleons, snakes, etc. Among snakes, cobra, python, viper, krait, etc. are common. More than 150 species of birds are seen here.

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Objectives

The butterfly survey was one of the attempts of its kind. The objective was:

- To establish baseline data of butterflies in Ratapani Wildlife Sanctuary.
- To promote public awareness for butterflies.

Survey Design

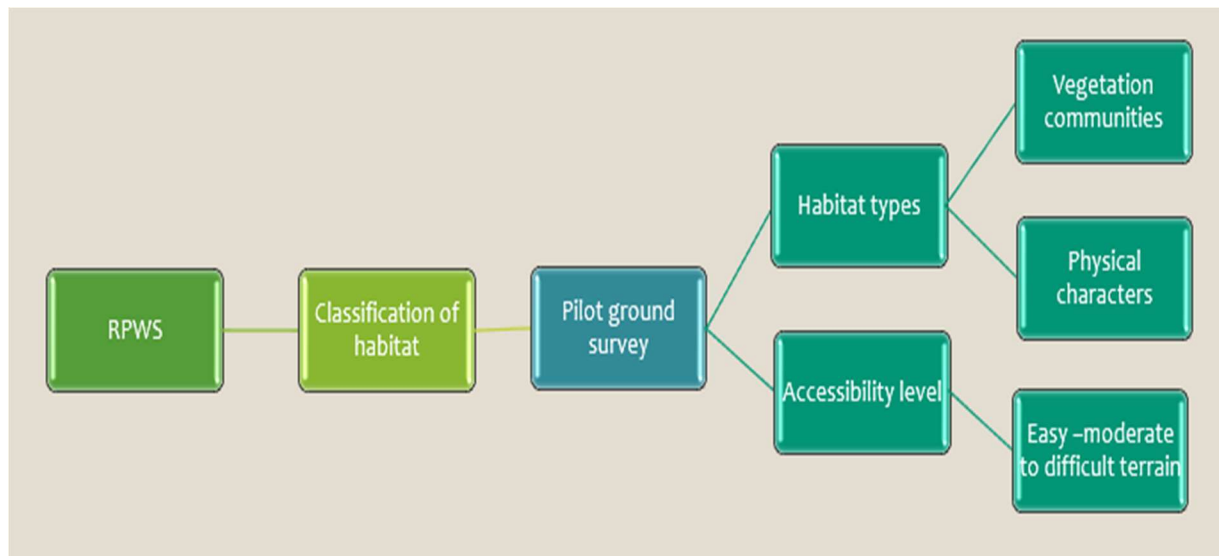


Figure 2 Study design

The butterfly survey was designed using scientific a scientific approach. The survey design was an attempt to incorporate scientific data collection methods into the citizen science initiative to get the best of the possible scenario. Sampling units were various trails identified in the four ranges of the sanctuary. Trails were identified with the help of the forest ground staff and google earth imagery. The final selection of the trails was based on the number of volunteers, accessibility of trails from camps, and butterfly diversity at these trails during the pilot survey. Habitat types were also considered while setting up trails and selecting the same. Trails were categorized into different categories depending on the physical characters, vegetation structure and composition, and difficulty level of trails. These trails were then allocated to different volunteer groups considering their level of expertise, fitness level, age, and accommodation available at camps. Each team was created in such a manner that each team has one expert, one photographer/wildlife enthusiast, and one amateur.

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A total of 88 nature enthusiasts from 14 states volunteered in the survey. The participants were divided into 34 teams with 2-3 volunteers (an expert, a photographer, and an amateur) in each team accompanied by forest staff. The teams were allotted different camps in the four ranges. Each team had to cover a maximum of 3 and a minimum of 2 trails in two mornings and an evening session on 11th and 12th September 2021. The Kml file of the trails was provided to the teams in advance which they followed on the Locus map application on their mobile phones for navigation.

Butterfly Survey Method

The butterfly sampling was done using the “Pollard’s walk”, a type of transect walk primarily used for butterfly surveys, where the observers record butterflies within a 2.5-meter band on both sides of a transect while walking at a slow and steady pace and 5- meters ahead of the walk.

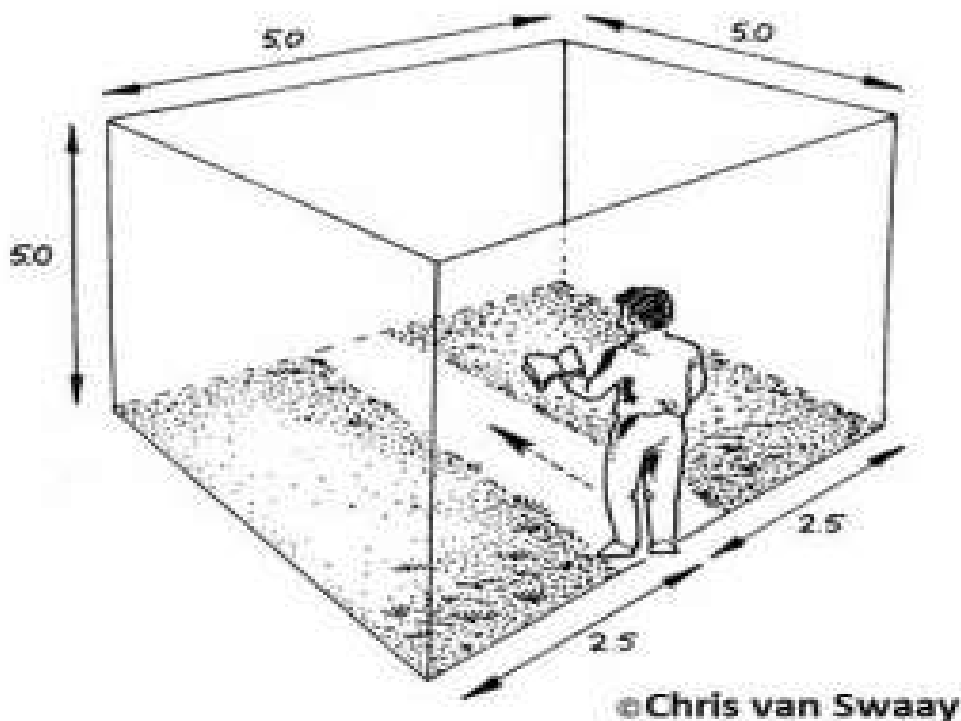


Figure 3-Illustration of Pollard's walk

The observations were recorded in the datasheet provided which entailed the details of the butterfly species, their count, activity pattern, and remarks on the host plant species.

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Conclusion ceremony

At the end of the survey, a checklist of 103 species of butterflies was obtained which had a few important records of species found in the study area, namely Crimson rose, Plum Judy, Double-branded plum Judy, Common short Silverline, Common Red flash, Vindhyan bob, Painted Jezebel, Common tree brown, etc. Grass Jewel (size ranges from 15- 22 mm), the smallest butterfly was sighted in the survey. The survey concluded with certificate distribution and keynotes from the chief guests, Mr. K. Raman (APCCF), Mr. Sanjay Shukla (APCCF), and Mr. Ramnish Geer (Joint Director, CBI), and a vote of thanks by the DFO, Mr. Vijay Kumar.

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Appendix I: Media Coverage

दैनिक भास्कर रायसेन 12-09-2021

रातापानी में मिली चॉकलेट पेन्सी और प्लेन टाइगर प्रजाति की तितलियां

1971 के बाद 55 नई प्रजातियां मिली **ये है लेमन पेन्सी** देश में 1622 प्रजातियां इनमें से 360 अम्र में



गोहरगंज। तितलियों की प्रजातियों के संरक्षण के लिए शनिवार से शुरू हुए सत्रों के पहले दिन 55 प्रजातियां मिली हैं। 1971 के बाद यह पहला मौका जब नई प्रजाति की तितलियां देखी गईं हैं। वन विभाग व 100 विशेषज्ञों की टीम ने रातापानी अभयारण्य के ओबेदुल्लाखान वन मंडल के 2 किमी के एरिया में 100 ट्रेक बनाकर तितलियों का सर्वे किया। सर्वे दल के सदस्य तितली विशेषज्ञ मेहुल सिंह तोमर ने बताया कि तितली हमारे पर्यावरण के लिए बहुत महत्वपूर्ण है, क्योंकि इनकी मौजूदगी वातावरण में स्वच्छता का प्रतीक है। भारत में लगभग 1622 प्रजातियां पाई जाती हैं, जिनमें से 360 से अधिक प्रजाति मुख्यरूप से पाई जाती हैं। **ये प्रजातियां मिली**

कॉमन ग्रास यलो, क्रियामन रोज, कॉमन जेजेबल, प्लेन टाइगर, वेरोनेट, चॉकलेट पेन्सी, ब्लू पेन्सी, ग्रेट एफफ्लाई प्रमुख हैं। वन्य प्राणी संरक्षण अधिनियम 1972 के तहत संरक्षित प्रजातियां जैसे कॉमन पावरट, ग्राम ब्लू, कॉमन गल, डेनेट एफफ्लाई इत्यादि भी पाई गईं हैं।

50 वर्ष **मध्य स्वदेश**

पहली बार तितली गिन **विभागीय अमले के साथ 100 वॉलिटियर्स ने किया 50 प्रतिशत से ज्यादा सर्वे**

पहली बार तितली गिन एर क्षेत्र विभाग

तितलियों की प्रजाति के संरक्षण के लिए तिनसा इकोलॉजिकल फाउंडेशन ने किया सर्वे कुछ दुर्लभ प्रजाति की मिली तितलियां

मध्य स्वदेश ■ ओबेदुल्लाखान **चुनील सेरिया**

जलवायु परिवर्तन के प्रति संवेदनशील रहने वाली तितलियों के संरक्षण और उनकी प्रजाति पहचानने के उद्देश्य से ओबेदुल्लाखान वन मंडल में तितलियों का सर्वे चल रहा है। इस तीन दिवसीय सर्वे के बारे में बताया गुरु तितली विशेषज्ञ मेहुल सिंह तोमर ने बताया कि तितली हमारे पर्यावरण के लिए बहुत महत्वपूर्ण है क्योंकि इनकी मौजूदगी वातावरण में स्वच्छता का प्रतीक है भारत में लगभग 1622 प्रजातियां पाई जाती हैं जिनमें से तक्रियम 360 से अधिक प्रजाति

खाद्य श्रृंखला में हर जानवर एक दूसरे पर निर्भर है। यह सर्वे रातापानी अभयारण्य क्षेत्र के 872 वर्ग किलोमीटर में किया जाएगा। विभागीय अमले के साथ देश के 80 तितली विशेषज्ञ भी शामिल हैं। तितलियों की गणना करने के लिए दो किलोमीटर के सौ ट्रेक बनाए गए हैं जिन पर चलकर सभी के विशेषज्ञों ने आज सेशन में लगभग 50 प्रतिशत काम पूरा कर लिया है इस सर्वे में लगी टीम के सदस्य तितलियों का फोटो खींचकर उनकी प्रजाति को सूचीबद्ध करेंगे इसके बाद सत्यापन और गिनती होगी। सर्वेक्षण में एकत्र ज्ञात बाद के वर्षों के सर्वेक्षण का आधार बनेंगे।

दैनिक भास्कर रायसेन 13-09-2021

दो दिन में मिलीं तितलियों की 103 प्रजातियां, 20 साल बाद दिखी पचमढ़ी बुशब्राउन तितली

सर्वेक्षण: रातापानी अभयारण्य में 80 विशेषज्ञों में 20 महिला विशेषज्ञ, दो दिन से तितलियों की प्रजातियों का पता लगा रहे हैं

भारत संवाददाता। गोहरगंज

आसानी से नहीं दिख पाती है, लेकिन रातापानी में यह आसानी से मिली है। दो दिन के सर्वेक्षण में 103 प्रजातियों की तितलियां मिली हैं, जो अपने आप में एक सपना है। तिनसा फाउंडेशन की अध्यक्ष पीनल फेटल ने कहा कि हमने उम्मीद नहीं की थी कि इस तरह की सफलता हमें यहां मिलेगी। तितलियों का सर्वे काफी चुनौतीपूर्ण रहा है, लेकिन यह दिखी गई है, जो आसानी से नहीं दिखती, जिसमें एनामलस नवाब, स्माल लेपर्ड, कॉमन शॉट सिल्वर लाइन प्रजाति की तितली शामिल है। इस प्रकार की तितलियां जंगल के बहुत अंदर तक होती हैं और

यहां दुर्लभतम प्रजाति की पचमढ़ी बुशब्राउन है, जो लगभग 20 सालों के बाद रातापानी में देखने को मिली है, इस सर्वेक्षण की यह बड़ी सफलता माना जा सकती है।



| | | |
|---|--|---|
| राउंडेड पेट्रो | बरोनेट | कॉमन लेपर्ड |
|  |  |  |
| एगलेड पाइरेट | चॉकलेट पेन्सी | कॉमन मॉरमॉन |
|  |  |  |

Appendix II: Activities During the Butterfly Survey



Inaugural Session: Day 1



Closing Ceremony: Day3

Registered Address:

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TINSA ECOLOGICAL FOUNDATION

(Enabling sustainable Environment, Society and Development)

CIN: U73100MP2021NPL057410



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Email: tinsafoundation@gmail.com

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Teams During the Butterfly Survey: Day 2

Appendix III: List of Butterflies observed during the survey

| S No. | Family | Species | Scientific Name | Conservation Importance | |
|-------|-------------|-------------------------|------------------------------|-------------------------|-----------------------|
| | | | | IUCN | WPA 1972 |
| 1 | Hesperiidae | Brown Awl | <i>Badamia exclamationis</i> | | |
| 2 | | Ceylon Swift | <i>Parnara bada</i> | | |
| 3 | | Common Banded Awl | <i>Hasora chromus</i> | | |
| 4 | | Common Branded Swift | <i>Pelopidas subochracea</i> | | |
| 5 | | Conjoined Swift | <i>Pelopidas conjuncta</i> | | |
| 6 | | Grass Demon | <i>Udaspes folus</i> | | |
| 7 | | Indian Dartlet | <i>Oriens goloides</i> | Not evaluated | |
| 8 | | Indian Grizzled Skipper | <i>Spialia galba</i> | Not evaluated | |
| 9 | | Indian Palm Bob | <i>Suastus gremius</i> | Not evaluated | |
| 10 | | Rice Swift | <i>Borbo cinnara</i> | Not evaluated | |
| 11 | | Tri-colour Pied Flat | <i>Coladenia indran</i> | | |
| 12 | | Vindhyan Bob | <i>Arnetta vindhiana</i> | | |
| 13 | Lycaenidae | Angled Pierrot | <i>Caleta decidia</i> | Least Concern | |
| 14 | | Common Cerulean | <i>Jamides celeno</i> | | |
| 15 | | Common Guava Blue | <i>Deudorix isocrates</i> | Not evaluated | |
| 16 | | Common Hedge Blue | <i>Acytolepis puspa</i> | Not evaluated | |
| 17 | | Common Line blue | <i>Prosotas nora</i> | | |
| 18 | | Common Pierrot | <i>Castalius rosimon</i> | Not evaluated | Schedule I - Part IV |
| 19 | | Common Shot Silverline | <i>Cigaritis ictis</i> | | |
| 20 | | Common Silverline | <i>Cigaritis vulcanus</i> | Not evaluated | |
| 21 | | Dark cerulean | <i>Jamides bochus</i> | | |
| 22 | | Dark Grass Blue | <i>Zizeeria karsandra</i> | Least Concern | |
| 23 | | Forget-me-not | <i>Catochrysops strabo</i> | Not evaluated | |
| 24 | | Gram Blue | <i>Euchrysops cnejus</i> | Not evaluated | Schedule II - Part II |
| 25 | | Grass Jewel | <i>Freyeria trochylus</i> | Least Concern | |
| 26 | | Indian Cupid | <i>Chilades parrhasius</i> | Not evaluated | |
| 27 | | Leaf blue | <i>Amblypodia anita</i> | | |
| 28 | | Lesser Grass Blue | <i>Zizina otis</i> | Not evaluated | |
| 29 | | Lime blue | <i>Chilades lajus</i> | | |
| 30 | | Pale Grass Blue | <i>Pseudozizeeria maha</i> | Not evaluated | |

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| | | | | | |
|----|-------------|------------------------|---------------------------|----------------------------|-----------------------|
| 31 | | Pea Blue | <i>Lampides boeticus</i> | Least Concern | Schedule II - Part II |
| 32 | | Plains Cupid | <i>Chilades pandava</i> | Not evaluated | |
| 33 | | Red Pierrot | <i>Talicauda nyseus</i> | Not evaluated | |
| 34 | | Red Flash | <i>Rapala iarbus</i> | | |
| 35 | | Rounded Pierrot | <i>Tarucus extricatus</i> | | |
| 36 | | Striped Pierrot | <i>Tarucus nara</i> | | |
| 37 | | Tailless Lineblue | <i>Prosotas dubiosa</i> | | Schedule II - Part II |
| 38 | | Tiny Grass Blue | <i>Zizula hylax</i> | Not evaluated | |
| 39 | | Zebra Blue | <i>Leptotes plinius</i> | Not evaluated | |
| 40 | | Dull Babul Blue | <i>Azonus uranus</i> | | |
| 41 | Nymphalidae | Angled Castor | <i>Ariadne ariadne</i> | Not evaluated | |
| 42 | | Anomalous Nawab | <i>Charaxes agrarius</i> | Not evaluated | |
| 43 | | Baronet | <i>Euthalia nais</i> | Not evaluated | |
| 44 | | Black Rajah | <i>Charaxes solon</i> | Not evaluated | |
| 45 | | Blue Tiger | <i>Tirumala limniace</i> | Not evaluated | |
| 46 | | Blue Pansy | <i>Junonia orithya</i> | Not evaluated | |
| 47 | | Chocolate Pansy | <i>Junonia iphita</i> | Not evaluated | |
| 48 | | Commander | <i>Modusa procris</i> | | |
| 49 | | Common Nawab | <i>Polyura athamas</i> | | |
| 50 | | Common Baron | <i>Euthalia aconthea</i> | Not evaluated | |
| 51 | | Common Leopard | <i>Phalanta phalantha</i> | Not evaluated | |
| 52 | | Common Bushbrown | <i>Mycalesis perseus</i> | | |
| 53 | | Common Castor | <i>Ariadne merione</i> | Not evaluated | |
| 54 | | Common Crow | <i>Euploea core</i> | Least Concern | Schedule IV |
| 55 | | Common evening brown | <i>Melanitis leda</i> | Not evaluated | |
| 56 | | Common Four-ring | <i>Ypthima huebneri</i> | Not evaluated | |
| 57 | | Common Sailor | <i>Neptis hylas</i> | Not evaluated | |
| 58 | | Common Three ring | <i>Ypthima asterope</i> | | |
| 59 | | Common Treebrown | <i>Lethe rohria</i> | | |
| 60 | | | Danaid Eggfly | <i>Hypolimnys misippus</i> | Not evaluated |
| 61 | | Dark-branded Bushbrown | <i>Mycalesis mineus</i> | Not evaluated | Schedule II - Part II |
| 62 | | Glassy Tiger | <i>Parantica aglea</i> | Not evaluated | Schedule II - Part II |
| 63 | | Great Eggfly | <i>Hypolimnys bolina</i> | Not evaluated | |
| 64 | | Grey Pansy | <i>Junonia atlites</i> | Not evaluated | |
| 65 | | Lemon Pansy | <i>Junonia lemonias</i> | Not evaluated | |

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|-----|-------------------------|---------------------------|---------------------------------|--------------------------|----------------------|-----------------------|
| 66 | | Long-brand Bushbrown | <i>Mycalesis visala</i> | | | |
| 67 | | Painted Lady | <i>Vanessa cardui</i> | Not evaluated | | |
| 68 | | Peacock Pansy | <i>Junonia almana</i> | Least Concern | | |
| 69 | | Plain Tiger | <i>Danaus chrysippus</i> | Least Concern | | |
| 70 | | Short-banded Sailer | <i>Phaedyma columella</i> | | Schedule I - Part IV | |
| 71 | | Striped Tiger | <i>Danaus genutia</i> | Not evaluated | | |
| 72 | | Tawny Coster | <i>Acraea terpsicore</i> | Not evaluated | | |
| 73 | | Yellow Pansy | <i>Junonia hierta</i> | | | |
| 74 | Papilionidae | Common Bluebottle | <i>Graphium sarpedon</i> | | | |
| 75 | | Common Jay | <i>Graphium doson</i> | Not evaluated | | |
| 76 | | Common Mime | <i>Papilio clytia</i> | | Schedule I - Part IV | |
| 77 | | Common Mormon | <i>Papilio polytes</i> | Not evaluated | | |
| 78 | | Common Rose | <i>Pachliopta aristolochiae</i> | Least Concern | | |
| 79 | | Common Swallowtail | <i>Papilio machaon</i> | | | |
| 80 | | Crimson Rose | <i>Pachliopta hector</i> | Least Concern | Schedule I - Part IV | |
| 81 | | Indian Spot-swordtail | <i>Graphium nomius</i> | | | |
| 82 | | Lime Butterfly | <i>Papilio demoleus</i> | Not evaluated | | |
| 83 | | Tailed Jay | <i>Graphium agamemnon</i> | Not evaluated | | |
| 84 | | Pieridae | Common Albatross | <i>Appias albina</i> | | |
| 85 | | | Common Gull | <i>Cepora nerissa</i> | Not evaluated | Schedule II - Part II |
| 86 | | | Common Emigrant | <i>Catopsilia pomona</i> | Not evaluated | |
| 87 | | | Common grass Yellow | <i>Eurema hecabe</i> | Not evaluated | |
| 88 | Common Jezebel | | <i>Delias eucharis</i> | Not evaluated | | |
| 89 | Common Wanderer | | <i>Pareronia valeria</i> | | | |
| 90 | Large Cabbage White | | <i>Pieris brassicae</i> | | | |
| 91 | Mottled Emigrant | | <i>Catopsilia pyranthe</i> | Not evaluated | | |
| 92 | One-spot grass yellow | | <i>Eurema andersonii</i> | | | |
| 93 | Painted Jezebel | | <i>Delias hyparete</i> | Not evaluated | | |
| 94 | Pioneer | | <i>Belenois aurota</i> | Not evaluated | | |
| 95 | Psyche | | <i>Leptosia nina</i> | | | |
| 96 | Small Grass Yellow | | <i>Eurema brigitta</i> | Not evaluated | | |
| 97 | Spotless Grass Yellow | | <i>Eurema laeta</i> | Not evaluated | | |
| 98 | Three-spot Grass Yellow | | <i>Eurema blanda</i> | | | |
| 99 | White ornage tip | | <i>Ixias marianne</i> | Not evaluated | | |
| 100 | Yellow orange tip | | <i>Ixias pyrene</i> | Not evaluated | | |
| 101 | Double-banded Judy | <i>Abisara bifasciata</i> | Not evaluated | | | |

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| | | | | | |
|-----|------------|--------------------|---------------------------|---------------|--|
| 102 | Riodinidae | Double-banded Judy | <i>Abisara bifasciata</i> | Not evaluated | |
| 103 | | Plum Judy | <i>Abisara echerius</i> | Not evaluated | |

Appendix IV: Pictures of Butterflies observed during the survey

| | |
|---|--|
|  |  |
| <p>Gray Pansy. © Anshuman Sharma</p> | <p>Tawny coster. © Anshuman Sharma</p> |
|  |  |
| <p>Black Rajah. ©Gavrav Nigam</p> | <p>Tri-coloured Pied flat ©Radheshyam baghel</p> |

Registered Address:

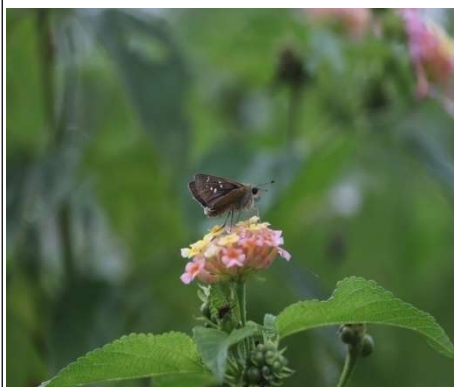
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Anomalous Nawab © Gaurav Nigam



Double banded Plum Judy ©Amod



Rice swift. ©Akash



White orange tip ©Adarsha Mukherjee



Peacock pansy ©Geeta yadav



Common Silverline ©Geeta yadav

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Gram Blue ©Amit kumar



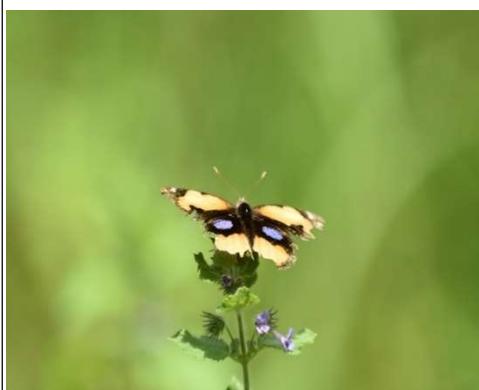
Angled Pierrot © Harvinder Singh



Lime butterfly © Harwinder Singh



Common sailor ©Harwinder Singh



Yellow pansy © Harwinder Singh



Common Evening Brown©Surendra

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Common Jezebel © Surendra



Common Pierrot © Surendra



Indian Grizzled Skipper © Surendra



Greater Eggfly © Surendra



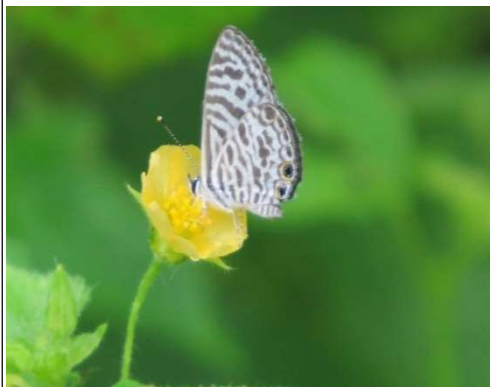
Long-Brand Bushbrown © Anup Prakash



Tiny Grass Blue © Anup Prakash

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Zebra Blue © Anup Prakash



Grass Demon © Anup Prakash



Common Crow © Anup Prakash



Common Baronet © Anup Prakash



Chocolate Pansy © Anup Prakash



Common Mormon © Pallavi Vaze

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Blue Pansy © Pallavi Vaze



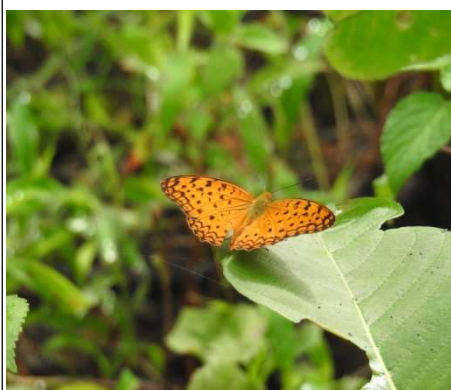
Commander © Pallavi Vaze



Crimson Rose © Sameer



Common Redflash © Sameer



Common leopard butterfly © Shailesh



Common Emigrant © Sameer

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Common Gull © Rakesh Ahlawat



Blue Tiger © Rakesh Ahlawat

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