

# Butterflies of Wildlife Institute of India Campus, Chandrabani, Dehradun



Manish Bhardwaj  
&  
V.P. Uniyal



भारतीय वन्यजीव संस्थान  
Wildlife Institute of India

©Wildlife Institute of India, 2012

Photo credits:

Manish Bhardwaj & V.P. Uniyal

---

Citation:

Bhardwaj, M. & Uniyal, V.P. (2012). Butterflies of Wildlife Institute of India Campus, Chandrabani, Dehradun. Wildlife Institute of India, Dehradun, India. 21 pages.



## **Introduction**

Butterflies (Lepidoptera: Rhopalocera) form an easily recognizable biotic component of the ecosystem, as they are visibly attractive and colorful. The ecological role of butterflies in an ecosystem is not only as herbivores, but also as important pollinators. Besides their attractiveness, butterflies are of interest because they can also be used to monitor environmental conditions. Change in butterfly abundance may indicate change in habitat conditions. There are about 180,000 described species of Lepidoptera, around 10% of all described species of living organisms. In butterflies (Papilionidae and Hesperioidea), there are about 17,500 described species, or 1% of known organisms (Vane-Wright, 2003). In India there are about 1,501 species of butterflies are present (Kehimkar, 2008).

Butterflies being sensitive to disturbance and good surrogate for biodiversity assessment present a good candidate for long term monitoring. This study provides baseline status of Lepidoptera (Butterflies) at Wildlife Institute of India (WII) campus in Chandrabani area. The campus besides its own area has got a reserved forest that expands between 77° 57' 50" E to 77° 58' 45" E longitude and 30° 16' 40" N to 30° 17' 15" N and at an altitude of 600m. The campus covers an area of ca. 89 ha of natural and semi-natural vegetation represented by a mosaic of natural scrub, woodland, and various succession stages of Sal forest including riparian swamp and grassy blanks which has been heavily disturbed in the past. During the documentation conducted in different seasons a total of 90 butterflies from five families e.g. Hesperioidea (10); Papilionidae (9); Pieridae (15); Lycaenidae (16) and Nymphalidae (40) were reported from the campus (Table 1).



**Table 1. List of Butterflies recorded in Wildlife Institute of India, Chandrabani Campus, Dehradun**

| S.no                        | Common name          | Scientific name                               | Abundance status | WPA* Status |
|-----------------------------|----------------------|-----------------------------------------------|------------------|-------------|
| <b>Family: HesperIIDae</b>  |                      |                                               |                  |             |
| 1                           | Indian Skipper       | <i>Spialia galba</i> (Fabricius)              | 2                | -           |
| 2                           | Spotted Small Flat   | <i>Sarangesa purendra</i> Moore               | 3                | -           |
| 3                           | Small Branded Swift  | <i>Pelopidas mathias</i> (Fabricius)          | 3                | -           |
| 4                           | Spotted Angle        | <i>Caprona agama</i> (Moore)                  | 2                | -           |
| 5                           | Golden Angle         | <i>Caprona ransonnetti</i> (C. & R. Felder)   | 4                | -           |
| 6                           | Common Grass Dart    | <i>Tatrocera mavevius</i> (Fabricius)         | 2                | -           |
| 7                           | Common Dartlet       | <i>Oriens goloides</i> (Moore)                | 3                | -           |
| 8                           | Great Swift          | <i>Pelopoides assamensis</i> (de Nicéville)   | 3                | -           |
| 9                           | Giant Redeye         | <i>Gangara thyrasis</i> (Fabricius)           | 2                | -           |
| 10                          | Grass Demon          | <i>Udaspes folus</i> (Cramer)                 | 1                | -           |
| <b>Family: Papilionidae</b> |                      |                                               |                  |             |
| 11                          | Glassy Bluebottle    | <i>Graphium cloanthus</i> Westwood            | 3                | -           |
| 12                          | Common Jay           | <i>Graphium doson</i> (C. & R. Felder)        | 2                | -           |
| 13                          | Spot Swordtail       | <i>Graphium nomius</i> (Esper)                | 2                | -           |
| 14                          | Common Mime          | <i>Papilio clytia</i> (Linnaeus)              | 2                | I           |
| 15                          | Common Mormon        | <i>Papilio polytes</i> Linnaeus               | 1                | -           |
| 16                          | Red Helen            | <i>Papilio heleneus</i> Linnaeus              | 4                | -           |
| 17                          | Lime Butterfly       | <i>Papilio demoleus</i> Linnaeus              | 1                | -           |
| 18                          | Common Rose          | <i>Atrophaneura aristolochiae</i> (Fabricius) | 3                | -           |
| 19                          | Crimson Rose         | <i>Atrophaneura hectr</i> (Linnaeus)          | 3                | I           |
| <b>Family: Pieridae</b>     |                      |                                               |                  |             |
| 20                          | Small Grass Yellow   | <i>Eurema brigitta</i> (Cramer)               | 1                | -           |
| 21                          | Common Grass Yellow  | <i>Eurema hecabe</i> Linnaeus                 | 2                | -           |
| 22                          | Common Emigrant      | <i>Catopsilia pomona</i> (Fabricius)          | 1                | -           |
| 23                          | Small Orange Tip     | <i>Colotis etrida</i> (Boisduval)             | 2                | -           |
| 24                          | White Orange Tip     | <i>Ixias marianne</i> (Cramer)                | 3                | -           |
| 25                          | Mottled Emigrant     | <i>Catopsilia pyranthe</i> Linnaeus           | 1                | -           |
| 26                          | Common Wanderer      | <i>Pareronia valeria</i> (Cramer)             | 3                | -           |
| 27                          | Striped Albatross    | <i>Appias libythea</i> (Fabricius)            | 3                | -           |
| 28                          | Large Cabbage White  | <i>Pieris brassicae</i> (Sparrman)            | 1                | -           |
| 29                          | Indian Cabbage White | <i>Pieris canidia</i> (Linnaeus)              | 1                | -           |
| 30                          | Common Gull          | <i>Cepora nerissa</i> (Fabricius)             | 2                | II          |



|                            |                      |                                          |   |    |
|----------------------------|----------------------|------------------------------------------|---|----|
| 31                         | Hill Jezebel         | <i>Delias belladonna</i> (Fabricius)     | 4 | -  |
| 32                         | Common Jezebel       | <i>Delias eucharis</i> (Drury)           | 1 | -  |
| 33                         | Psyche               | <i>Leptosia nina</i> (Fabricius)         | 1 | -  |
| 34                         | Pioneer              | <i>Leptosia nina</i> (Fabricius)         | 1 | -  |
| <b>Family: Lycaenide</b>   |                      |                                          |   |    |
| 35                         | Common Gem           | <i>Poritia hewitsoni</i> Moore           | 4 | II |
| 36                         | Large Oak Blue       | <i>Arhopala amantes</i> (Hewitson)       | 2 | -  |
| 37                         | Common Acacia Blue   | <i>Surendra quercetorum</i> Moore        | 3 | -  |
| 38                         | Yamfly               | <i>Loxura atymnus</i> (Stoll)            | 2 | -  |
| 39                         | Common Onyx          | <i>Horaga onyx</i> (Moore)               | 4 | -  |
| 40                         | Orchid Tit           | <i>Chliaria othona</i> (Hewitson)        | 4 | -  |
| 41                         | Guava Blue           | <i>Deudorix isocrates</i> (Fabricius)    | 2 | -  |
| 42                         | Common Pierrot       | <i>Castalius rosimon</i> (Fabricius)     | 1 | -  |
| 43                         | Common Cerulean      | <i>Jamides celeno</i> (Cramer)           | 2 | -  |
| 44                         | Pea Blue             | <i>Lampides boeticus</i> (Linnaeus)      | 2 | II |
| 45                         | Pale Grass Blue      | <i>Pseudozizeeria maha</i> (Kollar)      | 1 | -  |
| 46                         | Tiny Grass Blue      | <i>Zizula hylax</i> (Fabricius)          | 2 | -  |
| 47                         | Red Pierrot          | <i>Talicauda nyseus</i> Guerin-Meneville | 2 | -  |
| 48                         | Common Hedge Blue    | <i>Actolepis puspa</i> (Horsfield)       | 2 | -  |
| 49                         | Malayan              | <i>Megisba malaya</i> (Horsfield)        | 2 | -  |
| 50                         | Plum Judy            | <i>Abisara echerius</i> (Stoll)          | 1 | -  |
| <b>Family: Nymphalidae</b> |                      |                                          |   |    |
| 51                         | Common Beak          | <i>Libythea lepita</i> (Moore)           | 2 | II |
| 52                         | Blue Tiger           | <i>Tirumala limniace</i> (Cramer)        | 2 | -  |
| 53                         | Dark Blue Tiger      | <i>Tirumala septentrionis</i> (Butler)   | 1 | -  |
| 54                         | Striped Tiger        | <i>Danaus genutia</i> (Cramer)           | 1 | -  |
| 55                         | Plain Tiger          | <i>Danaus chrysippus</i> (Linnaeus)      | 1 | -  |
| 56                         | Glassy Tiger         | <i>Parantica aglea</i> (Stoll)           | 2 | -  |
| 57                         | Striped Blue Crow    | <i>Euploea mulciber</i> (Cramer)         | 4 | IV |
| 58                         | Common Crow          | <i>Euploea core</i> (Cramer)             | 1 | -  |
| 59                         | Common Nawab         | <i>Polyura athamas</i> (Drury)           | 3 | -  |
| 60                         | Great Nawab          | <i>Polyura eudamippus</i> (Doubleday)    | 4 | -  |
| 61                         | Bamboo Treebrown     | <i>Lethe europa</i> (Fabricius)          | 3 | -  |
| 62                         | Banded Treebrown     | <i>Lethe confusa</i> Aurivillius         | 3 | -  |
| 63                         | Common Evening Brown | <i>Melanitis leda</i> (Fabricius)        | 1 | -  |
| 64                         | Common Palmfly       | <i>Elymnias hypermnestra</i> (Linnaeus)  | 2 | -  |
| 65                         | Common Bush Brown    | <i>Mycalesis perseus</i> (Fabricius)     | 1 | -  |
| 66                         | Common Threering     | <i>Ypthima asterope</i> (Klug)           | 3 | -  |



|    |                   |                                       |   |   |
|----|-------------------|---------------------------------------|---|---|
| 67 | Common Fiverring  | <i>Ypthima baldus</i> (Fabricius)     | 4 | - |
| 68 | Tawny Coster      | <i>Acraea violea</i> (Fabricius)      | 2 | - |
| 69 | Rustic            | <i>Cupha erymanthis</i> (Drury)       | 2 | - |
| 70 | Common Leopard    | <i>Phalanta phalantha</i> (Drury)     | 1 | - |
| 71 | Commander         | <i>Moduza procris</i> (Cramer)        | 3 | - |
| 72 | Common Lascar     | <i>Pantpporia hordonia</i> (Stoll)    | 2 | - |
| 73 | Common Sailer     | <i>Neptis hylas</i> (Moore)           | 1 | - |
| 74 | Baronet           | <i>Euthalia nais</i> (Forster)        | 1 | - |
| 75 | Common Map        | <i>Cyrestis thyodamas</i> (Boisduval) | 2 | - |
| 76 | Tabby             | <i>Pseudergolis wedah</i> (Kollar)    | 2 | - |
| 77 | Popinjay          | <i>Stibochiona nicea</i> (Gray)       | 4 | - |
| 78 | Common Castor     | <i>Ariadne merione</i> (Cramer)       | 2 | - |
| 79 | Painted Courtesan | <i>Euripes consimilis</i> (Westwood)  | 2 | - |
| 80 | Common Jester     | <i>Symbrenthia hippoclus</i> (Cramer) | 2 | - |
| 81 | Painted Lady      | <i>Cynthia cardui</i> (Linnaeus)      | 2 | - |
| 82 | Blue Pansy        | <i>Junonia orithya</i> (Linnaeus)     | 1 | - |
| 83 | Yellow Pansy      | <i>Junonia hierta</i> (Linnaeus)      | 1 | - |
| 84 | Grey Pansy        | <i>Junonia atlites</i> (Linnaeus)     | 2 | - |
| 85 | Chocolate Pansy   | <i>Junonia iphita</i> (Cramer)        | 3 | - |
| 86 | Peacock Pansy     | <i>Junonia almana</i> (Linnaeus)      | 1 | - |
| 87 | Lemon Pansy       | <i>Junonia lemonias</i> (Linnaeus)    | 2 | - |
| 88 | Orange Oakleaf    | <i>Kallima inachus</i> (Boisduval)    | 4 | - |
| 89 | Danaid Eggfly     | <i>Hypolimnas misippus</i> (Linnaeus) | 3 | I |
| 90 | Great Eggfly      | <i>Hypolimnas bolina</i> (Linnaeus)   | 3 | - |

**Legends:**

- 1 Abundant or very common
- 2 Common
- 3 Fairly common
- 4 Uncommon

**\*Status as in Indian Wildlife Protection Act (1972)**

- I Protection under Schedule I category
- II Protection under Schedule II category

**References**

- Kehimkar, I. 2008. The book of Indian butterflies. Bombay Natural History Society. Oxford University Press. 497pp.
- Vane-Wright, R.I. 2003. Indifferent philosophy versus Almighty Authority: on consistency, consensus and unitary taxonomy. *Systematic Biodiversity* 1, 3-11.



**PLATE – 1**  
**Hesperiidae**



**Indian Skipper**  
***Spialia galba* (Fabricius)**



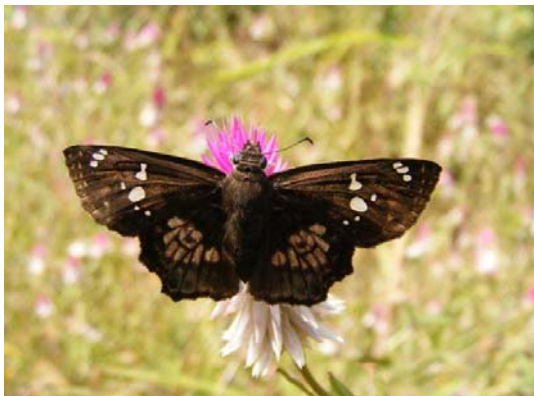
**Spotted Small Flat**  
***Sarangesa purendra* Moore**



**Small Branded Swift**  
***Pelopidas mathias* (Fabricius)**



**Spotted Angle**  
***Caprona agama* (Moore)**



**Golden Angle**  
***Caprona ransonnetti* (C. & R. Felder)**



**Common Grass Dart**  
***Tatrocera mavevius* (Fabricius)**



**PLATE -2**  
**Hesperiidae**



**Common Dartlet**  
***Oriens goloides* (Moore)**



**Great Swift**  
***Pelopides assamensis* (de Niceville)**



**Common Redeye**  
***Matapa aria* (Moore)**



**Grass Demon**  
***Udaspes folus* (Cramer)**



**PLATE – 3**  
**Papilionidae**



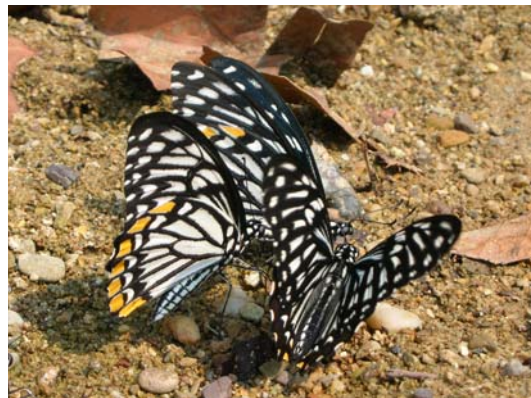
**Glassy Bluebottle**  
*Graphium cloanthus* (Linnaeus)



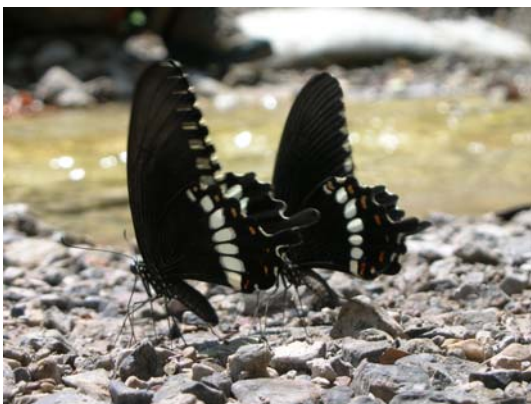
**Common Jay**  
*Graphium doson* (C. & R. Felder)



**Spot Swordtail**  
*Graphium nomius* (Esper)



**Common Mime**  
*Papilio clytia* (Linnaeus)



**Common Mormon**  
*Papilio polytes* Linnaeus



**Red Helen**  
*Papilio heleneus* Linnaeus



**PLATE – 4**  
**Papilionidae**



**Lime Butterfly**  
*Papilio demoleus* Linnaeus



**Common Rose**  
*Atrophaneura aristolochiae* (Fabricius)



**Crimson Rose**  
*Atrophaneura hector* (Linnaeus)



**PLATE – 5**  
**Pieridae**



**Three Spot Grass Yellow**  
*Eurema blanda* (Boisduval)



**Common Grass Yellow**  
*Eurema hecabe* Linnaeus



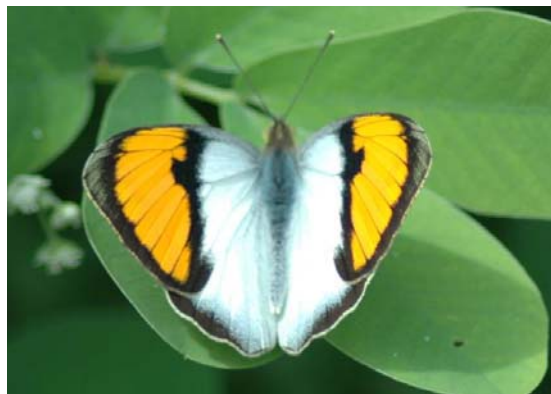
**Common Emigrant**  
*Catopsilia pomona* (Fabricius)



**Mottled Emigrant**  
*Catopsilia pyranthe* Linnaeus



**Small Orange Tip**  
*Colotis etrida* (Boisduval)



**White Orange Tip**  
*Ixias Marianne* (Cramer)



**PLATE – 6**  
**Pieridae**



**Common Wanderer**  
*Pareronia valeria* (Cramer)



**Striped Albatross**  
*Appias libythea* (Fabricius)



**Large Cabbage White**  
*Pieris brassicae* (Sparrman)



**Indian Cabbage White**  
*Pieris canidia* (Linnaeus)



**Common Gull**  
*Cepora nerissa* (Fabricius)



**Hill Jezebel**  
*Delias belladonna* (Fabricius)



**PLATE – 7**  
**Pieridae**



**Common Jezebel**  
***Delias eucharis* (Drury)**



**Psyche**  
***Leptosia nina* (Fabricius)**



**Pioneer**  
***Belenois aurota* (Fabricius)**



**PLATE – 8**  
**Lycaenidae**



**Common Gem**  
*Portia hewitsoni* (Hewitson)



**Large Oak Blue**  
*Arhopala amantes* (Hewitson)



**Common Acacia Blue**  
*Surendra quercetorum* Moore



**Yamfly**  
*Loxura atymnus* (Stoll)



**Common Onyx**  
*Horaga onyx* (Moore)



**Orchid Tit**  
*Chilaria othona* (Hewitson)



**PLATE – 9**  
**Lycaenidae**



**Guava Blue**  
*Deudorix isocrates* (Fabricius)



**Common Pierrot**  
*Castalius rosimon* (Fabricius)



**Common Cerulean**  
*Jamides celeno* (Cramer)



**Pea Blue**  
*Lampides boeticus* (Linnaeus)



**Pale Grass Blue**  
*Pseudozizeeria maha* (Kollar)



**Tiny Grass Blue**  
*Zizula hylax* (Fabricius)



**PLATE -10**  
**Lycaenidae**



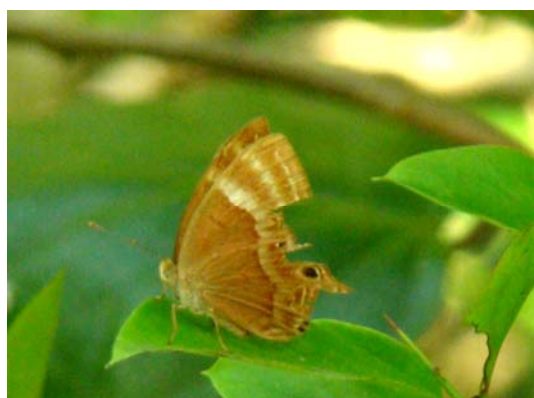
**Red Pierrot**  
*Talicada nyseus* Guerin-Meneville



**Common Hedge Blue**  
*Actyolepis puspa* (Horsefield)



**Malayan**  
*Megisba malaya* (Horsfield)



**Plum Judy**  
*Abisara echerius* (Stoll)



**PLATE -10**  
**Nymphalidae**



**Common Beak**  
*Libythea lepita* (Moore)



**Blue Tiger**  
*Tirumala limniace* (Cramer)



**Dark Blue Tiger**  
*Tirumala septentrionis* (Butler)



**Striped tiger**  
*Danaus genutia* (Cramer)



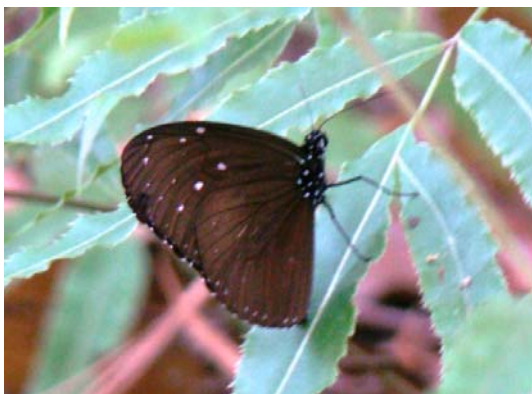
**Plain Tiger**  
*Danaus chrysippus* (Linnaeus)



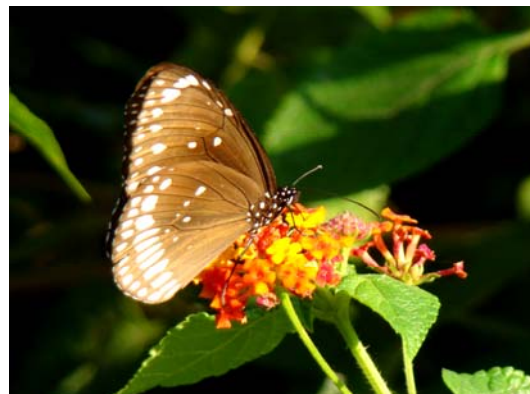
**Glassy Tiger**  
*Paranitica aglea* (Stoll)



**PLATE -11**  
**Nymphalidae**



**Striped Blue Crow**  
*Euploea mulciber* (Cramer)



**Common Crow**  
*Euploea core* (Cramer)



**Common Nawab**  
*Polyura athamus* (Drury)



**Great Nawab**  
*Polyura eudamippus* (Doubleday)



**Bamboo Treebrown**  
*Lethe europa* (Fabricius)



**Banded Treebrown**  
*Lethe confusa* Aurivillius



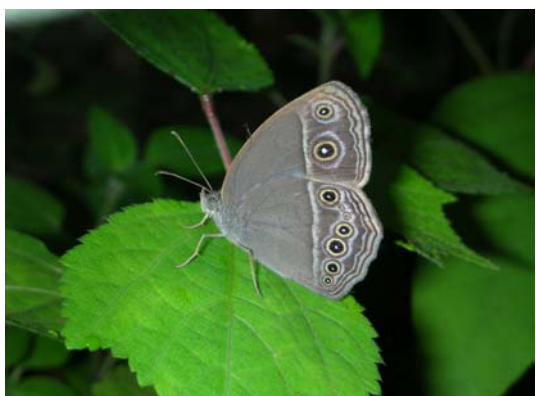
**PLATE -12**  
**Nymphalidae**



**Common Evening Brown**  
*Melantis leda* (Fabricius)



**Common Palmfly**  
*Elymnias hypermnestra* (Linnaeus)



**Common Bushbrown**  
*Mycalesis perseus* (Fabricius)



**Common Threering**  
*Ypthima asterope* (Klug)



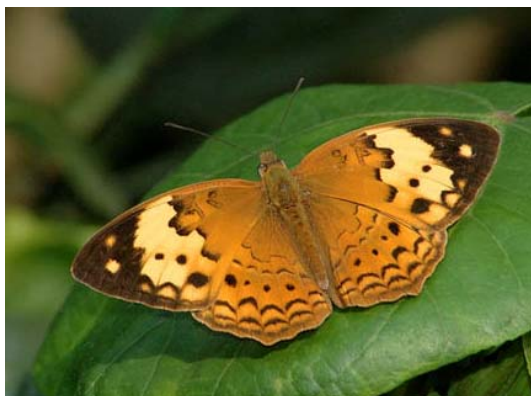
**Common Fivering**  
*Ypthima baldus* (Fabricius)



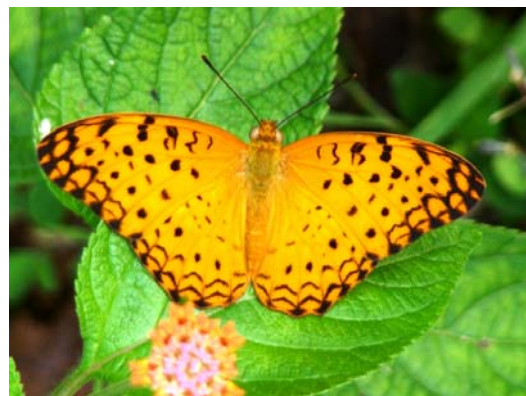
**Tawny Coster**  
*Acraea violea* (Fabricius)



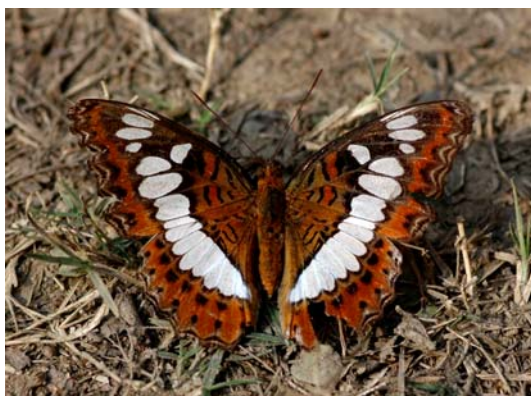
**PLATE -13**  
**Nymphalidae**



**Rustic**  
***Cupha erymanthis* (Drury)**



**Common Leopard**  
***Phalanta phalantha* (Drury)**



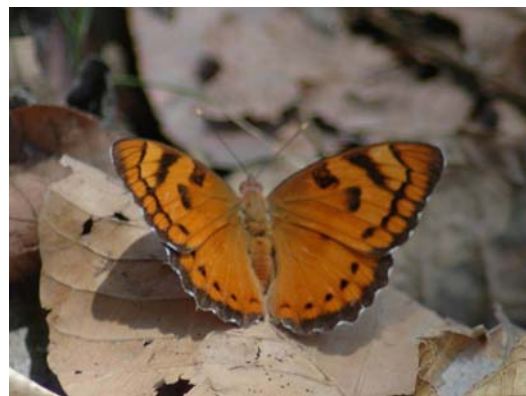
**Commander**  
***Moduza procris* (Cramer)**



**Common Lascar**  
***Pantpporia hordonia* (Stoll)**



**Comman Sailer**  
***Neptis hylas* (Moore)**



**Baronet**  
***Euthalia nais* (Stoll)**



**PLATE -14**  
**Nymphalidae**



**Common Map**  
*Cyrestis thyodamas* (Boisduval)



**Tabby**  
*Pseudergolis wedah* (Kollar)



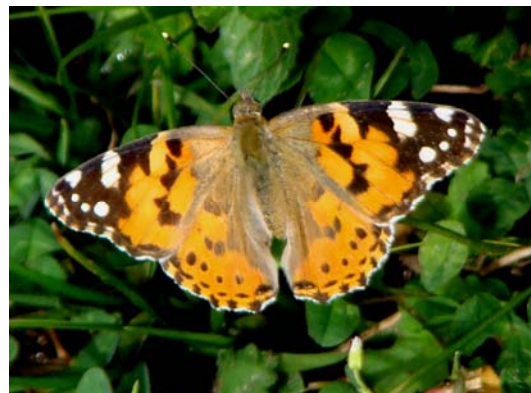
**Popinjay**  
*Stibochiona nicea* (Grey)



**Common Castor**  
*Ariadne merione* (Cramer)



**Common Jester**  
*Symbrenthia hippoclus* (Cramer)



**Painted Lady**  
*Cynthia cardui* (Linnaeus)



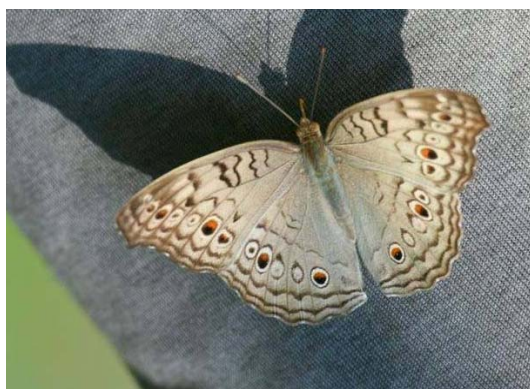
**PLATE -15**  
**Nymphalidae**



**Blue Pansy**  
*Junonia almana* (Linnaeus)



**Yellow Pansy**  
*Junonia lemonias* (Linnaeus)



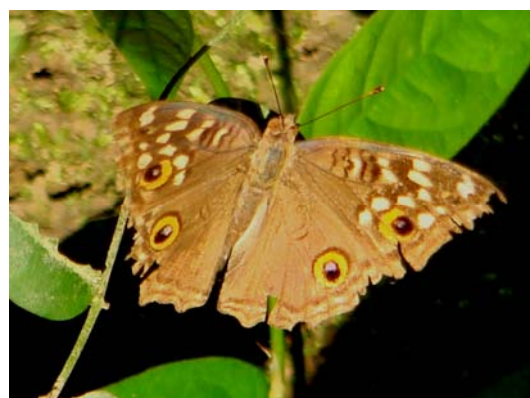
**Grey Pansy**  
*Junonia almana* (Linnaeus)



**Chocolate Pansy**  
*Junonia lemonias* (Linnaeus)



**Peacock Pansy**  
*Junonia almana* (Linnaeus)



**Lemon Pansy**  
*Junonia lemonias* (Linnaeus)



**PLATE -15**  
**Nymphalidae**



**Orange Oakleaf**  
*Kallima inachus* (Boisduval)



**Danaid Eggfly**  
*Hypolimnasthis misippus* (Linnaeus)



**Great Eggfly**  
*Hypolimnasthis bolina* (Linnaeus)