

found in the galls. In first half of February, the adults were seen wandering over the foliage of the plant. Thus, in winter months (December and January) of this locality, the development of this Psyllid slows down to pass the colder weather in nymphal stages. As soon as the warm weather sets in during February, the adults emerged from the fifth instars. During the rest of the year, i.e., from February to October, all the stages were seen.

*Distribution in Saharanpur* — Nakur (Sadholi, Kharibans, Gangoh), Deoband

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(Majri, Nomehra), Roorkee (Iqbalpur, Bhagwanpur, Haridwar, Jwalapur), Saharanpur (Panwarka, Behat, Rampur Maniharan, Kailashpur, Gagalheri).

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S. C. DHIMAN  
VINAY KUMAR

## 32. BUTTERFLIES FROM ANDAMAN ISLANDS WITH SOME NEW RECORDS

### INTRODUCTION

Andaman and Nicobar Islands, situated in the Bay of Bengal between  $6^{\circ}$  and  $14^{\circ}$ N; and between  $92^{\circ}$  and  $94^{\circ}$  E, have been explored by several naturalists in the past. A consolidated list of butterflies was published Ferrar (1948) in this *journal*. Since then many changes have been taken place in the islands due to deforestation, and refugee settlement. During a recent visit to the Island with Dr. Sálím Ali, from the last week of January to the first week of March in 1980, I collected several specimens of butterflies and other insects. In this paper the status of the species collected is compared with the status as reported by Ferrar (op. cit). The collection was made at Chirria Tapu, Ross Island, and Port Blair in South Andaman, Mayabunder, Tugapur and Interview Island in Middle Andaman and Northreef Island,

Aerial Bay (Diglipur) in North Andaman. One day was spent at Smith Island, Ross Island and Wharf Island all in the North Andaman. Though climatically the islands are more or less uniform there was difference in Vegetation. In some islands the tidal zone is occupied by thick impenetrable mangrove swamps and in others there are sandy beaches. In the latter the littoral or beach forest consists of some flowering bushes, Andaman bullet-wood and Pandanus trees. This zone is followed by semi-evergreen forest and Tropical climatic forest. It was observed that some Nymphalids and Pierids like, Maps, Wanderers, Orange Tips, regularly visit the seashore and settle on damp patches for a few seconds, while others like Sailers, Lacewings, Pansies, Blues confined themselves to the forested area. The Satyrs and Skippers remain within the forest.

ORDER LEPIDOPTERA

Family DANAIDAE

1. **Euploea andamanensis andamanensis** Atk.  
Andaman Crow  
As described by Ferrar, the species is very common throughout Gt. Andaman. Specimens were collected from Aerial Bay, Mayabunder and Chirria Tapu.
2. **Danaus chrysippus** (Lin.)  
Plain Tiger  
Not very common at Portblair as described earlier. A single specimen was collected from Portblair.

Family SATYRIDAE

3. **Orsotrioena medus medus** F.  
Nigger  
Common throughout Gt. Andaman as described earlier from December to March. Collected from Mayabunder.
4. **Melanites leda ismene** Crammer  
Common Evening Brown  
Very common throughout Andaman, I did not see a single specimen of *M. zitenius andamanica* recorded earlier from Andaman.

Family NYMPHALIDAE

5. **Apatura parisatis parisatis** Wd.  
Black Prince  
Rare, not recorded by Ferrar. Not rare in Burma. Specimen collected from Aerial Bay.
6. **Euthalia kesava** M.  
Powdered Baron  
Not rare, not recorded earlier. Collected from Mayabunder.
7. **Parthenos sylvia roepstorffii** C.  
Clipper  
Not rare as described earlier. Seen at

Diglipur, Mayabunder, Chirriatapu. Collected from Wharf Island near Aerial Bay.

8. **Neptis hylas andamana** M.  
Common Sailer  
Common throughout Andaman as described earlier by Ferrar collected from Chirriatapu, Mayabunder, Diglipur, Aerial bay.
9. **Neptis soma mananda** M.  
Sullied Sailer  
Common, collected from Aerial bay North Andaman.
10. **N. hordonia** Stoll  
Common Lascar  
Common, collected from Mayabunder.
11. **Cyrestis thyodamas andamanica** W.M. & de N. Common Map  
Not common as described earlier seen only at Chirriatapu. Regularly visits sea-shore and settles on damp patches.
12. **Hypolimnias bolina** L.  
Great Eggfly  
Not common in February, but Ferrar described it as common in September and October and again in June-July.
13. **Precis hierta** F.  
Yellow Pansy  
Very common. Found in areas cleared for settlement at Tugapur near Mayabunder and Diglipur.
14. **Precis almana almana** L.  
Peacock Pansy  
Common in open country, Collected from Diglipur.
15. **P. atlites** L.  
Grey Pansy  
As described earlier common in South Andaman. Collected from Chirria Tapu.
16. **Phalanta alcippe andamana** Pruh  
Small Andaman Leopard  
Not common in February, but Ferrar had seen these butterflies in clouds in April and again in October.

17. **Cethosia cyane** Drury  
Leopard Lacwing  
Not recorded by Ferrar. It is common at Chirria Tapu and Mayabunder, both sexes were collected. Earlier *C. biblis andamana* was recorded from andaman.

18. **Ergolis merione merione** Cr.  
Common Castor  
Not recorded earlier. Specimen collected from Diglipur.

Family ERYCINIDAE

19. **Abisara chela chela** De N.  
Spot Judy  
Specimen collected from Aerial Bay. Common in North Andaman. Not recorded by Ferrar.
20. **Castalius rosimon alarbus** Fr.  
Common Pierrot  
Very common throughout Andamans. Collected from Chirria Tapu and Mayabunder.
21. **Jamides celeno blairana** Evans  
Common Cerrulean  
As described by Ferrar very common throughout Andamans.
22. **Heliophorus epicles indicus** Fruh  
Purple Sapphire  
Collected at Mayabunder and Interview Island, near a stream. Common. Ferrar had collected it from Middle Andamans in June.
23. **Curetis saronis saronis** M.  
Burmese Sunbeam  
Common in North and middle Andamans. Specimens collected near streams from Interview Island.

24. **Loxura atymnus prabha** M.  
Yamfly  
Common. Specimens collected from Middle Andamans.

Family PIERIDAE

25. **Leptosia nina nina** F.  
Psyche  
Common in February whereas Ferrar collected them in June and December.
26. **Cepora nerissa dapha** M.  
Common Gull  
Very common in North Andaman. Ferrar writes 'On a brief visit to Tillanchong Nicobars in 1924 I took two DSF females. They may have been stragglers from Burma.'
27. **C. nerissa lichenosa** M.  
Common throughout Great Andamans.
28. **Catopsilia crocale pomona** F.  
Lemon Emigrant  
Common in February-March. Ferrar had collected specimens in October and April and described it as rare.
29. **Gandaca harina andamana** M.  
Tree Yellow  
Common throughout Andaman Islands.
30. **Eurema blanda silhetana** Wall.  
Common throughout Andamans.
31. **Ixias pyrene latifasciata** Butler  
Yellow Orange Tip  
Common throughout Andaman Islands.
32. **Ixias pyrene andamana** M.  
Common throughout Andaman Islands.
33. **Valeria ceylanica naraka** M.  
Very common. Collected from Chirria Tapu.

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