

**WING VARIATION IN TRIBE LIMENITIDINI (NYMPHALIDAE:  
LIMENITIDINAE) FROM SARAWAK, MALAYSIA**

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**ABSTRACT**

This study describes and compares the wing pattern variation among species of the tribe Limenitidini. A total of 34 species representing 13 genera of the tribe Limenitidini wing were examined and illustrated, where pattern elements of the nymphalid ground plan (NGP) are labelled in color. In general, the ventral wing surface tends to have more visible pattern elements than the dorsal wing surface. Elements *c* (basal symmetry system), *d* (proximal band of central symmetry system), *f* (discal band of central symmetry system) and *I* (parafocal element) are the common pattern elements found among species examined of this tribe. UPGMA were constructed to show the similarity distance between the species of tribe Limenitidini in terms of pattern elements on the ventral wing surface. The sexual dimorphism and colour resemblance among species in this study are also discussed.

**Keywords:** Automated identification, nymphalid ground plan, trailing band, Sarawak

**ABSTRAK**

Kajian ini menerangkan dan membandingkan variasi corak sayap antara spesies dalam suku Limenitidini. Sejumlah 37 spesies dari 13 genus telah diperiksa dan diilustrasi, di mana elemen corak pelan asas nymphalid (NGP) telah dilabel menggunakan warna. Secara amnya, lebih banyak elemen corak dapat dikenal pasti pada permukaan sayap ventral daripada permukaan sayap dorsal. Elemen *c* (simetri sistem basal), *d* (jalur proksimal pada pertengahan sistem simetri), *f* (jalur diskal pada pertengahan sistem simetri) dan *I* (elemen parafokal) adalah elemen yang paling banyak dijumpai di kalangan spesies dalam suku yang dikaji ini. Nilai jarak persamaan elemen corak pada permukaan sayap ventral yang terdapat dalam suku Limenitidini ini telah dibentuk menggunakan UPGMA. Dimorfism seksual dan persamaan warna di kalangan spesies dalam kajian ini turut dibincangkan.

**Kata kunci:** Pengecaman automatik, pelan asas nymphalid, jejak garisan, Sarawak