

## Species diversity of Butterflies in South-Eastern part of Namdapha Tiger Reserve, Arunachal Pradesh, India

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### ABSTRACT

A detailed study on the butterfly species diversity was carried out at Namdapha Tiger Reserve, in Changlong district, Arunachal Pradesh, during 2008-2009. A total of 1415 individuals' butterflies belonging to 113 species covering, 5 families and 73 genera of order Lepidoptera were recorded during the study period and also 15 rare species were recorded in present study. The family Nymphalidae, represented by (48 species) was the most dominant followed by Papilionidae (24 species), Lycaenidae (17 species) Pieridae (16 species) and Hesperidae (8 species). From the conservation point of view, the study area is remained rich in flora and fauna species. The most represent families were Nymphalidae and the majority of the species collected were from the family of, Nymphalidae Papilionidae and Lycaenidae. Nymphalidae, Papilionidae, Lycaenidae, Pieridae and Hesperidae, represents (42.5%, 21.2%, 15.1%, 14.1% and 7.1%) respectively species sampled in all transects. Overall the family composition Nymphalidae represent 393 (48) individuals followed by Papilionidae 339 (24), Lycaenidae 320 (17), Peiridae 302 (16) and Hesperidae 61(8) were recorded during the study periods.

**Key words:** Butterfly, Species, Diversity, South-Eastern, Namdapaha Tiger Reserve Arunachal Pradesh