



## Discovery of two new species of Alucitidae (Lepidoptera) from Vietnam

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### Abstract

Two new species of Alucitidae, *Pteropteryx nigrifasciata* sp. nov. and *P. vietana* sp. nov., are described from Vietnam. Photographs of the facies and genitalia are presented.

**Key words:** Lepidoptera, Alucitidae, *Pteropteryx*, new species, Vietnam

### Introduction

Alucitidae is a small family of Lepidoptera that has curious multi-plumed wings; it comprises 186 described species worldwide (Gielis 2003, Byun 2006). Although Scoble (1992) stated that the family occurs primarily in temperate regions, recently many species have been recorded from the Afrotropical Region, i.e., 51 in the latest catalogue by Gielis (2003).

The most conspicuous characteristic of the family is the division of the fore- and hindwing usually into six feathery plumes or lobes; a few species have seven lobes in the hindwing (Holloway *et al.* 1987). Host plants reported for the family encompass at least eight families of dicotyledonous plants, including Caprifoliaceae, Bignoniaceae, and Rubiaceae. The larvae bore into buds, flowers, fruits, and shoots, or make galls on their hosts (Dugdale *et al.* 1999).

In North America, Landry and Landry (2004) recently reviewed 16 species of the *Alucita*, describing two new species from Canada. For the eastern Asian fauna, Gielis (2003) included five species described from China, one species from the Phillipines, and five species from Indonesia, but there is no recent comprehensive study of the group for that region. For northeastern Asia, three species were reported from Korea (Byun 2006), five from Japan (Hashimoto 1984), and four from the Russian Far East (Ustjuzhanin 1999). However, the family has been poorly investigated in southern Asia, including Vietnam and neighboring areas. During a collaborative expedition between Korean and Vietnam (2004–2006), the second author collected eleven specimens of Alucitidae, mainly from Cuc Phuong National Park and Tamdao National Park in the northern part of Vietnam (Fig. 1).

The purpose of the present study is to describe two new species of Alucitidae from Vietnam, which represent the first report of the family from this country. Types are deposited in the Center for Insect Systematics, Kangweon National University, Chuncheon, Province Kangweon 200–701, Korea, on indefinite loan from Vietnam.