

Bibliography of Petauristinae (Rodentia, Sciuridae)

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Received August 5, 1985

Introduction

Flying squirrels (Petauristinae) are found in America, Asia, and Europe, including 33 species grouped into 11 genera (Honacki et al., 1982). An unusually rich Petauristine fauna occurs in east and southeast Asia. Flying squirrels are nocturnal gliders and hide in the holes or leaf dreys during daytime (Walker, 1964). Most of them are confined to forested regions. The degree of herbivory of species is dependent on their body size; the smaller size species tend to be less herbivorous and the largest are the most herbivorous (Muul and Lim, 1978). There are only five other mammalian families that share the same niche as the Petauristiniae species (Thorington and Heaney, 1981). These are the scaly-tailed flying squirrels (Anomaluridae, Rodentia), the gliding possum (*Acrobates*, *Petaurus*, and *Schoinobates*, Marsupial) and flying lemurs (Cynocephalidae, Dermoptera).

Petauristiniae suffer from habitat loss by clear cutting of primary forests, especially in southeast Asia (Muul and Lim, 1978). In a series of studies on the biology of the giant flying squirrels in Taiwan we collected all the possible literature on flying squirrels which is compiled herein as a benefit to researchers interested in these animals.

Methods

We utilized "BIOSIS PREVIEWS" database (1969-1981) provided by the Science and Technology Information Center of the National Science Council, ROC to search for articles pertaining to flying squirrels. Other titles were found in current journals. Most original papers on the descriptions of the new species were not included, but, those of Taiwan, including *Petaurista petaurista grandis*, *P. alborufus lena*, and *Belomys pearsoni kaleensis*, were listed (Swinhoe, 1862; Thomas, 1907, 1908). Bibliography of original papers pertaining to the other species can be obtained from Walker's (1964) Mammals of the World (volume 3, pages 156-183).

Results

Relatively few papers have been published on the flying squirrels. One hundred and sixty-six articles or books were found and categorized into 7 subjects under each species (Table 1). Among the Petauristiniae, North American flying squirrel (*Glaucomys volans*) is studied most intensively. Nearly all of the papers were written in English; five were in Japanese and three in Chinese.

Behavior and Ecology:

Ando, M., and Y. Imaizumi. 1982. Habitat utilization of the white-cheeked giant flying squirrel, *Petaurista leucogenys*, in a small shrine grove. J. Mamm. Soc. Jap.,

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Table 1. Numbers of Papers pertaining to flying squirrels according to subjects

Species	Beh. & Eco.	Disease	Dist.	General biology	Gen.	Par.	Tax.	Total
<i>Glaucomys</i>								
<i>volans</i>	29	9	6	14	2	7	1	68
<i>sabrinus</i>	15	1		1	2	1	1	21
<i>Petaurista</i>								
<i>Petaurista</i>	2	2			3	6	3	16
<i>alborufus</i>	1	1		1		1	5	9
<i>leucogenys</i>	8			1		1		10
<i>magnificus</i>					1	6		7
<i>elegans</i>						2		2
<i>Pteromys</i>								
<i>volans</i>	4		1	3	1		1	10
<i>Belomys</i>								
<i>pearsoni</i>		1			1		2	4
<i>Hylopetes</i>								
<i>alboniger</i>				1	1	1		3
<i>lepidus</i>	1							1
<i>Pteromyscus</i>								
<i>pulverulentus</i>	1			1				2
<i>Petromys</i>								
<i>genibarbis</i>				2				2
<i>morris</i>							1	1
General (no specific)	2			1			8	11
Unknown*			1	3	1	1	2	8

*: Literature were not reviewed.

- 9: 70-81 (In Japanese, English abstract). Ando, M., and S. Shiraishi. 1983. The nest and nest building behavior of the Japanese flying squirrel, *Petaurista leucogenys*. Sci. Bull. Fac. Agric., Kyushu Univ., 38: 59-69 (In Japanese, English summary).
- Ando, M., and S. Shiraishi. 1984. Relative growth and gliding adaptations in the Japanese flying squirrel, *Petaurista leucogenys*. Sci. Bull. Fac. Agric., Kyushu Univ., 39: 49-57 (In Japanese, English summary).

Ando, M., K. Funakoshi, and S. Shiraishi. 1983. Use Patterns of nests by the Japanese giant flying squirrel, *Petaurista leucogenys*. Sci. Bull. Fac. Agric., Kyushu Univ., 38: 27-43 (In Japanese, English summary).

Ando, M., S. Shiraishi, T. A. Uchida. 1984. Field observation of the feeding behavior in the Japanese giant flying squirrel, *Petaurista leucogenys*. J. Fac. Agric., Kyushu Univ., 28: 161-175.

Avenoso, A. C. 1968. Selection and processing of nuts by the flying squirrel, *Glaucomys*

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Acknowledgements

We wish to thank Ling-Ling Lee, Hon-Tsen Yu, Liang-Gong Lin, Pao-Chang Kuo, and Hin-Kiu Mok for helping us obtain literature and we are appreciative of those authors who kindly sent us their papers. This work was partially supported by the National Science Council of the Republic of China.