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**CICADA (HOMOPTERA: CICADOIDEA) FAUNA OF
TABIN WILDLIFE RESERVE, LAHAD DATU,
SABAH: A PRELIMINARY RECORD**

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ABSTRACT

A total of nine cicada species in six genera under two families (Cicadidae: seven species in four genera and Tibicinidae: two species in two genera) presented herewith known a preliminary record of the cicada fauna of Tabin Wildlife Reserve, Lahad Datu, Sabah. The nine species were *Chremistica* sp., *Orientopsaltria alticola* (Distant), *Orientopsaltria hollowayi* Duffels & Zaidi, *Orientopsaltria phaeophila* (Walker), *Platylomia abdulla* (Distant), *Platylomia spinosa* (Fabricius), *Pomponia decem* (Walker) (Cicadidae), *Nelcyndana tener* (Stal), *Muda obtusa* (Walker) (Tibicinidae). These were based on light-trapping specimens over two occasions (4-16.iii.1998; 17-21.x.2000) that were presently kept in the repository of Universiti Malaysia Sabah.

ABSTRAK

Sejumlah sembilan spesies riang-riang dalam enam genus di bawah dua famili (Cicadidae: tujuh spesies dalam empat genus dan Tibicinidae: dua spesies dalam dua genus) yang dipersembahkan di sini merupakan rekod awal fauna riang-riang bagi Rezab Hidupan Liar Tabin, Lahad Datu, Sabah. Sembilan spesies tersebut adalah: *Chremistica* sp., *Orientopsaltria alticola* (Distant), *Orientopsaltria hollowayi* Duffels & Zaidi, *Orientopsaltria phaeophila* (Walker), *Platylomia abdulla* (Distant), *Platylomia spinosa* (Fabricius), *Pomponia decem* (Walker) (Cicadidae), *Nelcyndana tener* (Stal), *Muda obtusa* (Walker) (Tibicinidae). Ini didasarkan pada spesimen daripada dua pensampelan (4-16.iii.1998; 17-21.x.2000) perangkap cahaya yang telah tersimpan kini dalam repositori Universiti Malaysia Sabah.

INTRODUCTION

In Lahad Datu, Sabah, there are two prominent conservation areas, i.e. Danum Valley Conservation Area (under the jurisdiction of Sabah Foundation) and Tabin Wildlife Reserve (under the jurisdiction of Sabah Wildlife Department). The biodiversity of the latter is comparatively less reported than the former. This includes the aesthetic insects, namely cicadas.

To date, there has been no published record of cicadas from Tabin Wildlife Reserve. Recently (in January 2004), however, we had an opportunity to examine all the cicada specimens from the reserve that have been deposited in the Borneeensis Collection of the Institute for Tropical Biology and Conservation, Universiti Malaysia Sabah (UMS). They were then identified using standard references (e.g. Moulton 1923; Duffels & Zaidi 1999; Beuk 1999) and classified in accordance to that of Duffels and van der Laan (1985). They were then found to constitute a total of 9 cicada species in six genera under two families (Cicadidae: seven species in four genera and Tibicinidae: two species in two genera). The specimens of these nine species were found to be obtained from the reserve through light-trappings on two occasions (4-16.iii.1998; 17-21.x.2000).

Comparison of records indicated that *Chremistica* sp. has been previously recorded elsewhere in Sabah but misidentified as *Chremistica germana* (Distant) (see Zaidi & Azman, 2003). It is, however, now found to fit the description of the proposed *Chremistica hollowayi* n. sp. (Salmah 2002) (Table 1).

This paper enumerates the above mentioned cicada species thus-far recorded for Tabin Wildlife Reserve, in the form of species checklist (Appendix 1) and a summary table (Table 1).

Table 1 Cicadas obtained from Tabin Wildlife Reserve (through two occasions)

	No. of specimens (m:f)	
	(4-1(4-16.ii.1998)	2(17-21.x.2000)
Cicadidae		
1. <i>Chremistica</i> sp. #	1:1	-
2. <i>Orientopsaltria alticola</i> (Distant)	1:7	-
3. <i>Orientopsaltria hollowayi</i> <i>Duffels & Zaidi</i>	0:1	-
4. <i>Orientopsaltria phaeophila</i> (Walker)	1:1	-
5. <i>Platylomia abdulla</i> (Distant)	1:0	-
6. <i>Platylomia spinosa</i> (Fabricius)	0:2	-
7. <i>Pomponia decem</i> (Walker)	2:2	-
Tibicinidae		
8. <i>Nelcyndana tener</i> (Stal)	-	1:2
9. <i>Muda obtusa</i> (Walker)	-	0:1

Note. The species marked # = a previously recorded species elsewhere in Sabah but misidentified as *Chremistica germana* (Distant) (see Zaidi & Azman, 2003) which is now found to fit the description of the proposed *Chremistica hollowayi* n. sp. (Salmah 2002).

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Appendix 1. Checklist of cicadas from Tabin Wildlife Reserve, Lahad Datu, Sabah.

Family Cicadidae

1. *Chremistica* sp.

Materials examined: SABAH, Lahad Datu, Tabin Km 21, 4-16.iii.1998, light trap, 1 male, 1 female.

Remarks: This has been previously recorded in Sabah but misidentified as *Chremistica germana* (Distant) (see Zaidi & Azman 2003), which is now found to fit the description of the proposed *Chremistica hollowayi* n. sp. (Salmah 2002).

2. *Orientopsaltria alticola* (Distant)

Cosmosaltria alticola Distant, 1905, Trans. Ent. Soc. London.: 200 [North Borneo, Mt. Kinabalu (type, male)]. - Moulton, 1923, J. Fed. Mal. St. Mus., 11:91 (Borneo, Sarawak).

Orientopsaltria alticola: Duffels, 1983, Pac. Ins. Mon., 39:9. - Duffels & Zaidi, 1999, Tijdschrift voor Entomologie 142(2):265 [Borneo (Sabah, Sarawak, Brunei, Kalimantan); Peninsular Malaysia (Pahang)]. - Zaidi & Azman 2003, Serangga, 8(1-2):105 (Sabah).

Materials examined: SABAH, Lahad Datu, Tabin, km 21, 4-16.iii.1998, Light Trap, 1 male, 7 females.

3. *Orientopsaltria hollowayi* Duffels & Zaidi

Orientopsaltria hollowayi Duffels & Zaidi 1999, Tijdschrift voor Entomologie 142(2):245 [Holotype, male (Sarawak, BNHM), Paratypes, males, females (Sabah, Sarawak)]. - Zaidi & Azman 2003, Serangga, 8(1-2): 105 (Sabah).

Material examined: SABAH, Lahad Datu, Tabin, Km 21, 4-16.iii.1998, Light Trap, 1 female.

4. *Orientopsaltria phaeophila* (Walker)

Dundubia phaeophila (Walker), 1850, List homop. Ins. 1:52 [328
Corea (male, type)].

Cosmopsaltria phaeophila. Distant, 1890, Monog. Orient. Cicad.
3:68.

Orientopsaltria phaeophila. Duffels, 1983., Pac. Inc. Mon. 39:10.
- Duffels & Zaidi 1999, Tijdschrift voor Entomologie
Malaysia (Pahang, Johore). Zaidi & Azman 2003, Serangga,
8(1-2):105 (Sabah).

Materials examined: SABAH, Lahad Datu-Tabin, Km 21, 4-
16.iii.1998, Light Trap, 1 male, 1 female.

5. *Platylomia abdulla* (Distant)

Orientopsaltria abdulla Distant, 1881, Trans.R. Ent. Soc. Lond. :
639 (Malay Peninsula, Perak, Penang; Singapore).

Platylomia abdulla: Pringle, 1956, Endeavor 15(58): Fig.2. - Beuk,
1999, Oriental Insects 33:60 (Singapore; Malaysia,
Peninsular Malaysia, Sabah, Sarawak; Brunei; Indonesia,
Kalimantan, Sumatra, Java). - Zaidi & Azman 2003,
Serangga, 8(1-2):106 (Sabah).

Material examined: SABAH, Lahad Datu, Tabin, km 21, 4-
16.iii.1998, Light Trap, 1 male.

6. *Platylomia spinosa* (Fabricius)

Tettigonia spinosa Fabricius, 1787, mant. Insect. Ryngota, 2:266
[Sumatra (type,male)].

Platylomia spinosa: Distant, 1906, Cat. Hom. Cicad., 1:58
(Philippines, Borneo, Sumatra, Malay Peninsula). -
Moulton, 1923, J. fed. Mal. St. Mus., 11:98 [New Guinea
(males, BuM), Philippines, Sumatra, Borneo (Sarawak),
Malay Peninsula, Singapore]. - Zaidi *et al.*, 2000. Serangga
5(1):211 (Sabah).

Materials examined: SABAH, Lahad Datu-Tabin, Km 21, 4-16.iii.1998, Light Trap, 2 females.

7. *Pomponia decem* (Walker)

Dundubia decem Walker, 1857, Journ. & Proc. Linn. Soc. London, Zool. 1:141 [Sarawak (type, female)].

Pomponia decem: Moulton, 1923, J. Fed. Mal. St. Mus., 11:109 (Borneo, Sarawak, Banguay I; Malay Peninsula). – Zaidi & Azman 2003, Serangga, 8(1-2):106 (Sabah).

Materials examined: SABAH, Lahad Datu, Tabin km 21, 4-16.iii.1998, Light Trap, 2 males, 2 females.

Family Tibicinidae

8. *Nelcyndana tener* (Stal)

Tibicen tener Stal, 1870, Ofv. Kongl. Vet.-Akad. Forhandl., Arg., 27:716 (Philippines). – Distant, 1892, Monog. Orient. Cicad., 6:130 (Philippines).

Nelcyndana tener: Moulton, 1923, J. Fed. Mal. St. Mus., 11:157 (Philippines; North Borneo, Sandakan; Sarawak, Tutau River). – Zaidi & Azman 2003, Serangga, 8(1-2):106 (Sabah).

Materials examined: SABAH, Lahad Datu, Tabin Wildlife Reserve, light trap, 17-21.x. 2000, Ito Gen, 1 male, 2 females.

9. *Muda obtusa* (Walker)

Cephaloxys obtusa Walker, 1858, List Homop. Supp.:37 [Java (type, male)].

Muda obtusa: Distant, 1897, Ann. Mus. Civ. Genov. 37:384.- Moulton, 1923, J. Fed. Mal. St. Mus., 11:158 (Malay Peninsula, Penang; Borneo; Banguay Island; Sumatra; Java). – Zaidi & Azman 2003, Serangga, 8(1-2):106 (Sabah).

Material examined: SABAH, Lahad Datu, Tabin Wildlife Reserve, 17-21.x.2000, Light Trap, Ito Gen, 1 female.