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SHORT COMMUNICATION

LIST OF ASSASIN BUGS (HEMIPTERA:REDUVIIDAE) FROM INDONESIA IN THE ENTOMOLOGY MUSEUM OF RESEARCH CENTER FOR BIOLOGY OF INDONESIAN INSTITUTE OF SCIENCES

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INTRODUCTION

The Reduviidae is the largest family of predaceous land Heteroptera. They are abundant, occur worldwide and can be found in a variety of habitats (Ambrose P. 1999). They range in size from relatively small and extremely delicate insects of only a few millimetres in length within 4-40 mm (Lilieik. 2004). All reduviids are predators and are referred to as 'assassin bugs'. Assassin bugs may not be useful as predators of specific pests as they are polyphagous but they are valuable predators in situations where a variety of insect pests occur. They kill more prey than they need to satiate themselves by their behaviour of indiscriminate killing. Thus assassin bugs are important mortality factor and deserve to be conserved and augmented for their utilization in biocontrol programmes (Ambrose, 1991; 2003).

In Indonesia, reduviid predators such as *Rhynocoris fuscipes*, *R. flavus* and *R. marginellus* are very often reported as predators of insect pest in tobacco, corn and cotton crops (Lilieik. 2004). This paper reviews information on taxonomic status of the Reduviidae from Indonesia based on collection specimens in Entomology Museum of research center for biology of the Indonesia Institute of Sciences (LIPI), Indonesia.

LIST OF REDUVIIDAE SPECIMENS

The list of assasin bug specimens is given in Table 1 which comprised of all Reduviidae species collection from entomology museum of Bogor including the number of specimen examined, codes, localities and divided into higher taxonomic unit which the genera in bold caps while the species in *Italic*. Overall, a total of 2019 specimens comprising of 189 species and 59 genera are listed.

Table 1. Reduviidae specimens from Indonesia in in the Entomology Museum of research center for biology in Indonesian Institute of Science (LIPI).

| Genus | Species/ Morphospecies | No.of Individuals | Locality |
|-----------------------------|---------------------------|----------------------|--|
| <i>Pristhesancus</i> | <i>P. pumeticeps</i> | 2 | New Guinea |
| | <i>P. wallacei</i> | 1 | New Guinea |
| | <i>Pristhesancus sp.1</i> | 3 | New Guinea |
| | <i>Pristhesancus sp.2</i> | 3 | West Irian |
| | <i>Pristhesancus sp.3</i> | 2 | West Irian |
| | <i>Pristhesancus sp.4</i> | 5 | - |
| <i>Sycanus</i> | <i>S. macracanthus</i> | 1 | East Borneo |
| | <i>S. leocomesus</i> | 2 | Sumatera |
| | <i>S. annulicornis</i> | 7 | West Java |
| | <i>S. bifidus</i> | 6 | West Java/Sumatera/ Kalimantan tengah |
| | <i>S. dichotomus</i> | 6 | Borneo |
| | <i>S. croceovittatus</i> | 1 | Borneo |
| | <i>S. versicolor</i> | 2 | Sumatera |

Table 1 continue...

Table 1 continued...

| | | | |
|--------------------------------|-------------------------|----|--|
| | <i>S. collaris</i> | 2 | Sumatera |
| | <i>Sycanus sp.1</i> | 2 | Borneo/West Sumatera |
| | <i>Sycanus sp.2</i> | 2 | - |
| | <i>Sycanus sp.3</i> | 1 | Timor |
| | <i>Sycanus sp.4</i> | 1 | - |
| | <i>Sycanus sp.5</i> | 1 | West Sumatera |
| | <i>Sycanus sp.6</i> | 2 | Kalimantan tengah |
| | <i>Sycanus sp.7</i> | 12 | Sumatera |
| | <i>Sycanus sp.8</i> | 2 | South Java |
| | <i>Sycanus sp.9</i> | 7 | Borneo |
| | <i>Sycanus sp.10</i> | 4 | - |
| | <i>Sycanus sp.11</i> | 10 | Java |
| | <i>Sycanus sp.12</i> | 5 | West Irian |
| | <i>Sycanus sp.13</i> | 5 | - |
| | <i>Sycanus sp.14</i> | 1 | - |
| <i>Yolinus</i> | <i>Yolinus sp.1</i> | 1 | East Borneo |
| <i>Colpochilocoris</i> | <i>C. fasciiventris</i> | 1 | Borneo |
| <i>Eulyes</i> | <i>E. amoena</i> | 27 | East Borneo/ Java/ Kalimantan Barat |
| | <i>E. mixta</i> | 6 | Sumatera |
| | <i>E. pretiosa</i> | 27 | East Borneo |
| | <i>Eulyessp.1</i> | 3 | - |
| <i>Graptoclopius</i> | <i>G. helluo</i> | 12 | New guinea/W.Irian |
| <i>Helonotus</i> | <i>H. lieftincki</i> | 2 | New Guinea |
| | <i>H. indutus</i> | 7 | New Guinea/W.Irian |
| <i>Neocentroenetnis</i> | <i>N. signoretis</i> | 2 | Sumatera |
| <i>Neovelinus</i> | <i>N. bicolor</i> | 4 | New Guinea |
| <i>Panthous</i> | <i>P. cocalus</i> | 6 | Sumatera |
| | <i>P. talus dist</i> | 1 | Sumatera |
| | <i>Panthous sp.1</i> | 4 | Sumatera |
| | <i>Panthous sp.2</i> | 6 | Sumatera |
| | <i>Panthous sp.3</i> | 2 | West Sumatera |
| | <i>Panthous sp.4</i> | 4 | Sumatera |
| | <i>Panthous sp.5</i> | 1 | Kalimantan |

Table 1 continue...

Table 1 continued...

| | | | |
|----------------------|------------------------|-----|--------------------------|
| Astinus | <i>A. m.album</i> | 5 | Borneo |
| | <i>A. pustulatus</i> | 4 | Borneo |
| | <i>Astinus sp.1</i> | 43 | Borneo |
| Epidaus | <i>E. transversus</i> | 1 | - |
| | <i>E. pellax</i> | 1 | Borneo |
| | <i>E. latispinus</i> | 3 | Borneo |
| | <i>Epidaus sp.1</i> | 1 | Borneo |
| | <i>Epidaus sp.2</i> | 2 | Borneo |
| | <i>Epidaus sp.3</i> | 2 | West Irian |
| | <i>Epidaus sp.4</i> | 1 | Kalimantan |
| | <i>Epidaus sp.5</i> | 1 | Kalimantan |
| | <i>Epidaus sp.6</i> | 1 | Kalimantan |
| | <i>Epidaus sp.7</i> | 2 | Sumatera/Borneo |
| Canthesancus | <i>C. irimaculatus</i> | 4 | Sumatera/Java/Kalimantan |
| | <i>C. gulo</i> | 1 | Sumatera |
| Isyndus | <i>I. heros</i> | 2 | West Java |
| | <i>Isyndus sp.1</i> | 13 | West sumatera |
| | <i>Isyndus sp.2</i> | 1 | Java |
| | <i>Isyndus sp.3</i> | 3 | Java |
| | <i>Isyndus sp.4</i> | 4 | West Sumatera |
| Velinus | <i>V. negrigenu</i> | 323 | Borneo |
| | <i>V. pallidus</i> | 2 | North sumatera/Borneo |
| Arcesius | <i>A. sanguinarius</i> | 1 | New Guinea |
| Agyrius | <i>A. podagricus</i> | 2 | Kalimantan |
| Henricohahnia | <i>H. wahnschafri</i> | 4 | Java |
| Cydnocoris | <i>C. gievus</i> | 1 | West Java |
| | <i>Cydnocoris sp.1</i> | 1 | - |
| Astinus | <i>A. euagoras</i> | 35 | Sumatera/Java |
| | <i>Astinus sp.1</i> | 71 | Borneo |
| | <i>Astinus sp.2</i> | 3 | Irian Jaya |

Table 1 continue...

Table 1 continued...

| | | | |
|--------------------|----------------------------|-----|---------------------------------|
| | <i>Astinus sp.3</i> | 1 | Sumatera |
| | <i>Astinus sp.4</i> | 13 | West Irian |
| Coranus | <i>C. fuscipennis</i> | 8 | West Java |
| Euagoras | <i>E. asseda</i> | 1 | - |
| | <i>E. sordidatus</i> | 1 | Borneo |
| | <i>E. sordidulus</i> | 7 | - |
| | <i>E. dolosus</i> | 10 | NW Guinea |
| | <i>E. plagiatus</i> | 8 | Sumba, Indonesia |
| | <i>Euagoras sp.1</i> | 12 | NW Guinea |
| | <i>Euagoras sp.2</i> | 17 | Sumatera |
| | <i>Euagoras sp.3</i> | 16 | Kalimantan |
| | <i>Euagoras sp.4</i> | 22 | NW Guinea |
| Euagoris | <i>E. stolli</i> | 11 | West Sumatera |
| Scipinia | <i>S. spinigera</i> | 3 | Java |
| | <i>S. javanensis</i> | 2 | West Java |
| | <i>S. horreda</i> | 1 | Java |
| | <i>S. arenacea</i> | 1 | N.Guinea |
| | <i>S. scipinia</i> | 27 | Java/West Irian |
| Harpactor | <i>H. sericans</i> | 40 | West Sumatera |
| | <i>H. fucipes fabr</i> | 9 | South Sumatera |
| | <i>H. maxginellus fabr</i> | 6 | West Java |
| | <i>Harpactor sp.1</i> | 19 | Sumatera |
| Polididus | <i>P. armatissimus</i> | 10 | Java |
| | <i>P. polididus</i> | 1 | West Java |
| Veledetta | <i>V. variabilis</i> | 1 | West Java |
| Endochus | <i>E. nigricornis</i> | 4 | Java |
| | <i>Endochus sp.1</i> | 1 | Borneo |
| Cosmolestes | <i>C. picticeps</i> | 402 | Sumatera |
| Caesinia | <i>C. javana</i> | 1 | - |
| | <i>Caesinia sp.1</i> | 11 | W.Java/East Borneo/ Sumatera |
| Kalshovenia | <i>K. gulo</i> | 1 | - |

Table 1 continue...

Table 1 continued...

| | | | |
|----------------------------|----------------------------|------------|---------------------------|
| Rhynocoris | <i>R. fuseipes</i> | 12 | Sebesi/Java |
| | <i>R. flarus</i> | 1 | Sumatera |
| Maccracanthopsis | <i>M. noolipes</i> | 1 | Sumatera |
| Psophis | <i>P. rubra</i> | 1 | East Borneo |
| Sphedanolestes | <i>S. compressipes</i> | 6 | Sumatera/East Borneo |
| | <i>S. lucidus</i> | 48 | N.Guinea/W. Irian |
| | <i>S. aoxopeuzi</i> | 4 | New Guinea |
| | <i>S. gulo</i> | 3 | New Guinea |
| | <i>S. lieftincki</i> | 4 | New Guinea |
| | <i>S. sphedanolestes</i> | 9 | West Irian |
| | <i>Sphedanolestes sp.1</i> | 20 | Sumatera/New Guinea |
| | <i>Sphedanolestes sp.2</i> | 5 | EastBorneo/Java/West Java |
| | <i>Sphedanolestes sp.3</i> | 9 | East Borneo |
| <i>Sphedanolestes sp.4</i> | 9 | West Irian | |
| Vesbius | <i>V. wegneri</i> | 2 | Sumatera |
| | <i>V. purpureus</i> | 12 | Borneo/Sumatera/West Java |
| Paracydnocoris | <i>P. macgillavryi</i> | 6 | West Java/Java |
| Acanthaspis | <i>A. flavovaria</i> | 12 | West Java |
| Pygolampis | <i>P. foeda</i> | 2 | Java |
| | <i>P. macera</i> | 3 | Sumatera/Java |
| | <i>P. buiteurorgunis</i> | 1 | Java |
| | <i>Pygolampis sp.1</i> | 8 | Java |
| Sastrapada | <i>S. bipunctata</i> | 1 | Sumatera |
| | <i>S. olthofi</i> | 1 | Java |
| Oncocephalus | <i>O. impudicus</i> | 15 | Kalimantan/Java/Sumatera |
| | <i>O. modestus</i> | 1 | Java |
| | <i>O. assimilis</i> | 1 | N.W. Sumba,Indonesia |
| | <i>O. annulipes</i> | 2 | Java |
| | <i>O. scutellaris</i> | 2 | Java |
| | <i>O. brevissutum</i> | 2 | Java/Kalimantan |
| | <i>O. oncocephalus</i> | 11 | Sumatera/NW Guinea |
| Aulacogenia | <i>A. corniculata</i> | 7 | Java/Sumatera |

Table 1 continue...

Table 1 continued...

| | | | |
|--------------------|-----------------------------|----|-------------------------|
| Staccia | <i>S. diluta</i> | 15 | Java |
| | <i>Staccia sp.1</i> | 10 | Borneo/Java |
| | <i>Staccia sp.2</i> | 9 | West Java/Irian jaya |
| | <i>Staccia sp.3</i> | 6 | East Borneo |
| | <i>Staccia sp.4</i> | 5 | Sumatera/West Java |
| | <i>Staccia sp.5</i> | 2 | Java |
| | <i>Staccia sp.6</i> | 2 | - |
| | <i>Staccia sp.7</i> | 2 | East Borneo/Sumatera |
| Ectomocoris | <i>E. elegans</i> | 1 | West Jaya (sumatera) |
| | <i>E. infuscatus</i> | 1 | - |
| | <i>E. digaris fabr</i> | 12 | West Java |
| | <i>E. atrax stal.</i> | 35 | East Borneo/West Java |
| | <i>E. biguttulus stal.</i> | 8 | Java |
| | <i>Ectomocoris sp.1</i> | 4 | East Borneo |
| Peirates | <i>P. lepturoides walt.</i> | 7 | West Java |
| | <i>P. picturatus miller</i> | 7 | West Java |
| | <i>P. arcuates stal.</i> | 2 | Java |
| | <i>P. barbarus</i> | 17 | Java |
| | <i>Peirates sp.1</i> | 17 | Java |
| Lestomerus | <i>L. affinis</i> | 5 | West Java |
| Sirthenea | <i>S. flavipes stal</i> | 14 | West Java/West Sumatera |
| Physoderes | <i>P. rugosa</i> | 1 | West Java |
| | <i>P. vestita</i> | 2 | - |
| | <i>Physoderes sp.1</i> | 9 | - |
| Ectrychotes | <i>E. violaceus</i> | 13 | Java/West Java |
| | <i>E. coloratus</i> | 4 | Sumatera/East Borneo |
| | <i>E. cupreus</i> | 1 | Java |
| | <i>E. festivus</i> | 1 | - |
| | <i>E. brevipennis</i> | 4 | Java |
| | <i>E. ectrychotes</i> | 20 | Bogor/Java/Borneo |
| Tegea | <i>T. pullata</i> | 2 | West Java |
| Triatoma | <i>T. rubrofasciata</i> | 2 | Java |
| | <i>T. migrans</i> | 1 | Java |
| | <i>T. mubrofasciatus</i> | 12 | Java |

Table 1 continue...

Table 1 continued...

| | | | |
|----------------------|-------------------------|------|-----------|
| | <i>Triatoma sp.1</i> | 6 | West Java |
| | <i>Triatoma sp.2</i> | 1 | Sumatera |
| Bimbus | <i>B. productus</i> | 2 | West Java |
| Ptilocerus | <i>P. ochraceus</i> | 57 | West Java |
| Lasiomiris | <i>L. albopilosus</i> | 1 | Borneo |
| Sinea | <i>S. vesbius</i> | 1 | Timor |
| | <i>Sinea sp.1</i> | 3 | Sumatera |
| Snicinae | <i>Snicinae sp.1</i> | 9 | West Java |
| Opistoplatys | <i>O. ineptus mill</i> | 8 | Java |
| | <i>O. tenebravius</i> | 15 | Java |
| | <i>O. vulpes</i> | 1 | - |
| | <i>Opistoplaty sp.1</i> | 7 | West Java |
| Total of specimens : | | 2019 | |
| Total of species : | | 189 | |
| Total of genera : | | 59 | |

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