

The Scolytidae and Platypodidae (Coleoptera) from Borneo Found in Logs at Nagoya Port I

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Abstract : A total of 144 scolytid species found in logs from Borneo at Nagoya Port are listed. Details of the host records for the present collection are given.

Key words : Scolytidae, Borneo, ecology, plant quarantine, host

Introduction

Although the ecology of the scolytid and platypodid beetles of the Malayan Peninsula has been well studied, little has been known of that of the other Southeast Asian and New Guinea areas.

On the basis of the inspection report on tropical logs imported from Borneo at Nagoya Port, scolytid and platypodid beetles, their host plants and localities of shipment will be described below.

Of these beetles, scolytid beetles are listed in the present paper, and platypodid beetles will be listed in the following paper.

About 110, 000 specimens of Scolytidae, consisting of 144 species of 25 genera, were collected by plant inspectors of Seibu Sub-Branch from April 1982 to March 1987.

Family Scolytidae

1. *Diamerus curvifer* (WALKER)
Kimanis, Kudat, Bintulu, Sibuti¹⁾; 9 exs., *Artocarpus* sp.²⁾
2. *Diamerus luteus* HAGEDORN
Kimanis, Tg. Mani; 57 exs., *Artocarpus* sp.
3. *Sphaerotrypes bryanti* BROWNE
Kudat; 1♂1♀, *Vatica* sp.
4. *Sphaerotrypes carinatus* EGGERS
Bintulu; 2 exs., *Hopea* sp.
5. *Sphaerotrypes moseri* EGGERS
Banggi, Kudat; 11♂12♀, *Shorea* sp.
6. *Phloeosinus brunneus* BROWNE

1) Shipment locality

2) Host record

- Sipitang; 1 ♀, *Podocarpus* sp.
7. *Phloeosinus cribratus* BLANDFORD
Niah, Tg. Mani; 10 ♂ 10 ♀, Myristicaceae sp.
 8. *Phloeosinus latus* EGGERS
Tawau, Niah, Suai, Tg. Baram, Tg. Mani; 29 ♂ 41 ♀, Myristicaceae sp.
 9. *Phloeosinus vilis* BLANDFORD
Niah; 27 ♂ 50 ♀, Myristicaceae sp.
 10. *Liparthrum palaquius* (SCHEDL)
Bintulu, Mukah, Tatau, Tg. Mani; 55 exs., *Cratoxylum arborescens*.
 11. *Bothinodroctonus bicinctus* SCHEDL
Niah, Suai, Tg. Mani; 43 ♂ 58 ♀ : *Parishia* sp.
 12. *Spongotarsus vexator* BROWNE
Kimanis; 1 ex., *Shorea* sp.
 13. *Bothrosternoides malayensis* SCHEDL
Balingian, Mukah, Niah, Suai, Tg. Mani, Tg. Salirong; 16 ♂ 17 ♀, *Parishia* sp., 24 ♂ 25 ♀, *Canarium* sp., 13 ♂ 9 ♀, *Terminalia* sp.
 14. *Cryphalus artocarpus* (SCHEDL)
Niah; 10 exs., unidentified log
 15. *Cryphalus cylindricus* BROWNE
Banggi, Lahad Datu, Tawau, Suai, Tatau; 20 ♂ 16 ♀ : *Dipterocarpus* sp.
 16. *Cryphalus laevis* BROWNE
Kudat; 4 exs., *Dipterocarpus* sp.
 17. *Cryphalus substriatus* SCHEDL
Niah, Tatau; 17 exs., *Parishia* sp.
 18. *Hypocryphalus perminimus* (SCHEDL)
Banggi, Kudat, Tagasan; 328 exs., *Terminalia* sp.
 19. *Hypothenemus birmanus* (EICHHOFF)
Bintulu, Niah; 3 ♀, *Parishia* sp., 1 ♀, *Shorea* sp.
 20. *Hypothenemus dipterocarpi* HOPKINS
Tagasan; 3 ♂ 6 ♀, *Shorea* sp., 1 ♂ 32 ♀, *Gmelina arborea*
 21. *Hypothenemus eruditus* WESTWOOD
Kudat, Miri, Niah; 1 ♂ 14 ♀, *Mangifera* sp., 2 ♂ 25 ♀, *Shorea* sp., 13 ♂ 317 ♀, *Koompassia excelsa*, 35 ♀, *Irvingia malayana*
 22. *Hypothenemus insignis* BROWNE
Niah; 3 exs., *Parishia* sp.
 23. *Cyrtogenius brevior* (EGGERS)
Kimanis, Sandakan, Tagasan, Bintulu; 18 ♂ 12 ♀, *Mangifera* sp., 20 ♂ 25 ♀, *Canarium* sp., 2 ♀, *Dipterocarpus* sp.
 24. *Cyrtogenius elongatus* (EGGERS)
Kudat; 39 ♂ 55 ♀, *Dipterocarpus* sp.
 25. *Cyrtogenius longipennis* BROWNE
Kudat; 26 ♂ 30 ♀, *Vatica* sp.
 26. *Cyrtogenius orientalis* (EGGERS)

- Niah; 3 ♀, Myristicaceae sp.
27. *Cyrtogenius perakensis* (SCHEDL)
Kimanis, Sindomin, Tawau, Bintulu, Lawas, Sejingkat, Suai, Tatau, Ketapang, Tarakan; 268 exs., *Agathis* sp.
28. *Cyrtogenius vaticae* NUNBERG
Kudat, Tg. Mani; 21 exs., *Anisoptera* sp., 26 ♂16 ♀, *Vatica* sp.
29. *Dryocoetiops Kepongi* (SCHEDL)
Bintulu; 41 ♂31 ♀, ? Burseraceae sp.
30. *Dryocoetiops laevis* (STROHMEYER)
Various shipment localities; 36 ♂1,051 ♀, *Dipterocarpus* sp.
31. *Ozodendron nitens* SCHEDL
Tg. Mani; 3 ♂6 ♀, ? Dipterocarpaceae sp.
32. *Ozopemon browni* SCHEDL
Kudat, Marudu Bay, Tawau, Wallace Bay, Bintulu, Kuala Semanock, Tatau, Tg. Baram, Tg. Mani; 2 ♀, *Parishia* sp., 22 ♀, *Anisoptera* sp., 79 ♀, *Dipterocarpus* sp., 1 ♀, *Dryobalanops* sp., 1 ♀, *Shorea* sp.
33. *Ozopemon fuscicollis* HAGEDORN
Bintulu; 1 ♀, *Canarium* sp.
34. *Ozopemon obanus* HAGEDORN
Suai; 1 ♀, *Dyera* sp., 1 ♀, *Koompassia malaccensis*
35. *Ozopemon regius* HAGEDORN
Lawas, Suai, Tg. Baram, Tg. Mani; 1 ♀, *Gluta* or *Melanorroe* sp., 1 ♀, *Alstonia* sp., 16 ♀, *Dyera* sp., 3 ♀, *Anisoptera* sp., 1 ♀, *Dipterocarpus* sp., 1 ♀, Sapotaceae sp.
36. *Ozopemon srambeanus* HAGEDORN
Kudat, Bintulu, Tg. Mani, Bandjarmasin; 1 ♀, *Anisoptera* sp., 1 ♂8 ♀, *Shorea* sp.
37. *Poecilips linearis* EGGERS
Kuala Semanok; 5 exs., *Mangifera* sp.
38. *Poecilips nitidipennis* SCHEDL
Kuala Semanok, Niah, Tatau, Tg. Mani; 5 exs., *Mangifera* sp., 2 exs., *Parishia* sp., 2 exs., *Dipterocarpus* sp., 1 ex., *Shorea* sp., 45 exs., unidentified log
39. *Poecilips subcribrosus* (BLANDFORD)
Various shipment localities; 6 ♂363 ♀, *Anisoptera* sp., 5 ♂20 ♀, *Dipterocarpus* sp., 1 ♂91 ♀, *Dryobalanops* sp., 52 ♀, *Shorea* sp., 25 ♀, *Vatica* sp., 4 ♀, *Palaquium* sp.
40. *Poecilips variabilis* (BEESON)
Tg. Mani; 1 ex., *Shorea* sp.
41. *Eidophelus borneensis* BROWNE
Tg. Baram, Tg. Mani; 38 ♂47 ♀, *Terminalia* sp.
42. *Acanthotomicus octodentatus* BROWNE
Sandakan, Niah, Sejingkat; 7 ♂3 ♀, *Parishia* sp., 30 ♂21 ♀, *Koompassia excelsa*, 1 ♂, *Artocarpus* sp.
43. *Acanthotomicus peregrinus* SCHEDL
Kimanis, Kuala Madai, Lahad Datu, Tagasan, Tg. Mani; 213 ♂235 ♀, *Canarium* sp., 8 ♂10 ♀, *Terminalia* sp.

44. *Acanthotomicus perexiguus* (BLANDFORD)

Kudat, Sandakan, Tagasan; 30♂25♀, *Canarium* sp., 3♂13♀, *Artocarpus* sp., 1♂, *Ficus* sp.

45. *Acanthotomicus tropicus* SCHEDL

Madai, Semporna; 43♂32♀, *Dialium* sp.

46. *Arixyleborus granifer* (EICHHOFF)

Various shipment localities; 1♀, *Agathis* sp., 16♀, *Canarium* sp., 1♀, *Octomeles sumatrana*, 2♀, *Anisoptera* sp., 1♂80♀, *Dipterocarpus* sp., 1♂24♀, *Dryobalanops* sp., 125♀, *Shorea* sp., 1♀, Sapotaceae sp.

47. *Arixyleborus granulifer* (EGGERS)

Various shipment localities; 7♀, *Gluta* or *Melanorroeia* sp., 156♀, *Parishia* sp., 2♀, *Alstonia* sp., 9♀, *Agathis* sp., 1♀, *Durio* sp., 3♂69♀, *Canarium* sp., 1♀, *Kokoona* sp., 2♀, *Octomeles sumatrana*, 27♀, *Anisoptera* sp., 131♂4,249♀, *Dipterocarpus* sp., 28♂928♀, *Dryobalanops* sp., 31♂1,561♀, *Shorea* sp., 1♀, *Vatica* sp., 6♀, *Trichadenia philippinensis*, 52♀, *Calophyllum* sp., 2♀, *Sindora* sp., 13♀, *Dactylocladus stenostachys*, 1♂1♀, *Artocarpus* sp., 1♂40♀, Sapotaceae sp., 2♀, *Tarrietia* sp.

48. *Arixyleborus hirsutulus* SCHEDL

Various shipment localities; 4♀, *Anisoptera* sp., 3♂588♀, *Dipterocarpus* sp., 2♂129♀, *Dryobalanops* sp., 120♀, *Shorea* sp., 1♀, *Artocarpus* sp., 1♀, Sapotaceae sp.

49. *Arixyleborus mediosectus* (EGGERS)

Banggi, Kudat, Marudu Bay, Tambisan, Tawau, Weston, Bintulu, Niah; 6♂50♀, *Dipterocarpus* sp., 1♀, *Shorea* sp., 1♀, *Toona* sp.

50. *Arixyleborus minor* (EGGERS)

Kimanis, Tambisan, Bintulu; 54♀, *Dryobalanops* sp., 7♀, *Shorea* sp.

51. *Arixyleborus puberulus* (BLANDFORD)

Kimanis, Kudat, Bintulu, Tatau; 2♀, *Canarium* sp., 1♀, *Dipterocarpus* sp., 6♀, *Dryobalanops* sp., 12♀, *Shorea* sp.

52. *Arixyleborus rugosipes* HOPKINS

Various shipment localities; 1♂15♀, *Buchanania* sp., 1♂17♀, *Campnosperma* sp., 9♀, *Gluta* or *Melanorroeia* sp., 21♀, *Mangifera* sp., 1♂15♀, *Parishia* sp., 1♀, *Alstonia* sp., 1♀, *Dyera* sp., 22♀, *Agathis* sp., 1♀, *Durio* sp., 4♂104♀, *Canarium* sp., 3♀, *Terminalia* sp., 2♀, *Octomeles sumatrana*, 4♂96♀, *Anisoptera* sp., 525♂15,305♀, *Dipterocarpus* sp., 65♂1,739♀, *Dryobalanops* sp., 85♂5,621♀, *Shorea* sp., 10♂77♀, *Vatica* sp., 1♀, *Trichadenia philippinensis*, 1♂3♀, Lauraceae sp., 2♀, *Planchonia* sp., 7♀, *Sindora* sp., 6♀, *Dactylocladus stenostachys*, 5♀, *Sandricum* sp., 2♀, *Artocarpus* sp., 3♀, Myristicaceae sp., 1♀, *Eugenia* sp., 9♀, Sapotaceae sp., 1♀, *Duabanga moluccana*, 2♀, *Pterospermum* sp., 8♀, *Scaphium* sp., 25♀, *Tarrietia* sp.

53. *Arixyleborus suturalis* (EGGERS)

Kudat; 1♀, *Dryobalanops* sp.

54. *Xylosandrus crassiusculus* (MOTSCHULSKY)

Various shipment localities; 71♀, *Gluta* or *Melanorroeia* sp., 1♀, *Parishia* sp., 1♀, *Agathis* sp., 12♀, *Canarium* sp., 2♀, *Octomeles sumatrana*, 14♀, *Anisoptera* sp., 1♂117♀, *Dipterocarpus* sp., 25♀, *Dryobalanops* sp., 105♀, *Shorea* sp., 1♀, *Sapium* sp., 1♀, Lauraceae

sp., 3♂21♀, *Acacia* sp., 897♀, *Albizia* sp., 1♀, *Koompassia malaccensis*, 1♀, *Sindora* sp., 1♀, *Dactylocladus stenostachys*, 15♀, *Eucalyptus deglupta*, 5♀, Sapotaceae sp., 62♀, *Gmelina arborea*

55. *Xylosandrus morigerus* (BLANDFORD)

Suai; 2♂4♀, *Shorea* sp.

56. *Strespocranus bicolor* BROWNE

Kimanis, Tg. Mani; 1♀, *Dryobalanops* sp., 2♀, *Shorea* sp.

57. *Streptocranus longispinis* BROWNE

Sejingkat; 1♂3♀, *Shorea* sp.

58. *Xyleborus abscissus* BROWNE

Kimanis, Kudat, Sindomin, Sipitang, Tawau, Bintulu, Kuala Semanok, Miri, Suai, Tg. Mani; 1♀, Annonaceae sp., 5♀, *Dyera* sp., 9♀, *Canarium* sp., 1♀, *Octomeles sumatrana*, 1♂17♀, *Anisoptera* sp., 30♀, *Dipterocarpus* sp., 4♀, *Dryobalanops* sp., 95♀, *Shorea* sp., 3♀, *Vatica* sp., 1♀, *Dactylocladus stenostachys*, 1♀, *Combretocarpus* sp.

59. *Xyleborus affinis* EICHHOFF

Various shipment localities; 1♀, *Buchanania* sp., 2♀, *Campnosperma* sp., 34♀, *Gluta* or *Melanorrhoea* sp., 1♂58♀, *Mangifera* sp., 27♀, *Parishia* sp., 11♀, Annonaceae sp., 19♀, *Alstonia* sp., 10♀, *Dyera* sp., 18♀, *Agathis* sp., 1♀, *Durio* sp., 4♂141♀, *Canarium* sp., 1♀, *Lophopetalum* sp., 1♂6♀, *Terminalia* sp., 34♀, *Octomeles sumatrana*, 3♂108♀, *Anisoptera* sp., 18♂1,038♀, *Dipterocarpus* sp., 1♂80♀, *Dryobalanops* sp., 1♂10♀, *Hopea* sp., 3♂439♀, *Shorea* sp., 1♀, *Upuna borneensis*, 1♂30♀, *Vatica* sp., 16♀, *Trichadenia philippinensis*, 1♀, *Gonystylus* sp., 1♀, *Cratoxylum arborescens*, 2♀, *Albizia* sp., 11♀, *Intsia* sp., 1♂36♀, *Koompassia malaccensis*, 15♀, *K. excelsa*, 1♂36♀, *Sindora* sp., 1♀, *Michelia* sp., 49♀, *Dactylocladus stenostachys*, 2♀, *Artocarpus* sp., 4♂53♀, *Parartocarpus* sp., 9♂70♀, *Sandricum* sp., 6♀, Myristicaceae sp., 1♀, *Xanthophyllum* sp., 2♂15♀, *Combretocarpus* sp., 11♀, *parinari* sp., 1♀, *Neonauclea* sp., 1♀, *Pometia* sp., 1♀, *Palaquium* sp., 3♀, *Planchonella* sp., 11♀, Sapotaceae sp., 2♀, *Ailanthus integrifolia*, 2♀, *Irvingia malayana*, 5♀, *Duabanga* sp., 16♀, *Pterygota horsfieldii*, 31♀, *Scaphium* sp., 35♀, *Tarrietia* sp., 2♂9♀, *Tetramerista glabra*, 1♀, *Pentace* sp.

60. *Xyleborus agnatus* EGGERS

Various shipment localities; 4♀, *Durio* sp., 1♀, *Canarium* sp., 1♀, *Kokoona* sp., 7♂311♀, *Dipterocarpus* sp., 1♂45♀, *Dryobalanops* sp., 25♀, *Shorea* sp., 1♂3♀, *Calophyllum* sp., 1♀, *Koompassia malaccensis*, 1♂13♀, *Dactylocladus stenostachys*, 2♀, *Combretocarpus* sp., 5♀, Sapotaceae sp., 1♀, *Tarrietia* sp., 1♀, *Koompassia malaccensis*

Xyleborus agnatus mesocompactus SCHEDL

Banggi, Bintulu, Tatau, Tg. Mani; 17♀, *Dipterocarpus* sp.

61. *Xyleborus amphicranoides* HAGEDORN

Kudat, Balingian, Bintulu, Sejingkat, Tatau, Tg. Mani; 2♀, *Octomeles sumatrana*, 2♀, *Parartocarpus* sp., 1♀, *Ailanthus integrifolia*, 6♀, *Pterygota horsfieldii*, 1♀, *Scaphium* sp.

Xyleborus amphicranoides parvior BROWNE

Tatau; 2♀, unidentified log

62. *Xyleborus amplexicauda* HAGEDORN

Kimanis, Kudat, Marudu Bay, Bintulu, Kuala Semanok, Miri, Tatau, Tg. Baram, Tg.

Mani, Tg. Salirong; 34 ♀, *Anisoptera* sp., 94 ♀, *Dipterocarpus* sp., 3 ♀, *Dryobalanops* sp., 27 ♀, *Hopea* sp., 33 ♀, *Shorea* sp., 26 ♀, *Vatica* sp.

63. *Xyleborus bicolor* BLANDFORD

Bintulu, Suai, Tg. Mani; 1 ♀, *Annonaceae* sp., 9 ♀, *Dyera* sp.

64. *Xyleborus bidentatus* (MOTSCHULSKY)

Various shipment localities; 1 ♀, *Alstonia* sp., 5 ♀, *Agathis* sp., 2 ♀, *Dyera* sp., 6 ♀, *Canarium* sp., 4 ♀, *Anisoptera* sp., 5 ♂ 73 ♀, *Dipterocarpus* sp., 5 ♀, *Dryobalanops* sp., 2 ♂ 168 ♀, *Shorea* sp., 1 ♀, *Upuna borneensis*, 1 ♀, *Koompassia malaccensis*, 15 ♀, *Sindora* sp., 2 ♂ 5 ♀, *Dactylocladus stenostachys*, 1 ♀, *Scaphium* sp.

65. *Xyleborus borneensis* BROWNE

Bintulu, Tatau, Tg. Mani; 2 ♂ 12 ♀, *Dipterocarpus* sp.

66. *Xyleborus brunneipes* EGGERS

Kudat, Bintulu, Tg. Mani; 3 ♀, *Octomeles sumatrana*, 1 ♀, *Parartocarpus* sp.

67. *Xyleborus cavuloides* BROWNE

Bintulu, Tg. Mani; 70 ♀, *Dipterocarpus* sp.

68. *Xyleborus ciliatoformis* SCHEDL

Bintulu; 3 ♀, *Vatica* sp.

69. *Xyleborus circumcisis* SAMPSON

Kudat, Suai; 6 ♀, *Canarium* sp.

70. *Xyleborus cognatus* BLANDFORD

Various shipment localities; 6 ♂ 157 ♀, *Gluta* or *Melanorroe* sp., 1 ♀, *Mangifera* sp., 30 ♀, *Parishia* sp., 1 ♂ 11 ♀, *Annonaceae* sp., 9 ♀, *Alstonia* sp., 27 ♀, *Dyera* sp., 4 ♀, *Agathis* sp., 1 ♀, *Durio* sp., 1 ♀, *Canarium* sp., 4 ♀, *Terminalia* sp., 1 ♂ 130 ♀, *Anisoptera* sp., 24 ♂ 935 ♀, *Dipterocarpus* sp., 49 ♂, *Dryobalanops* sp., 4 ♂ 377 ♀, *Shorea* sp., 3 ♀, *Vatica* sp., 2 ♀, *Fagaceae* sp., 1 ♀, *Homalium* sp., 12 ♀, *Calophyllum* sp., 1 ♀, *Koompassia malaccensis*, 1 ♀, *K. excelsa*, 5 ♂ 49 ♀, *Pseudosindora* sp., 1 ♂ 30 ♀, *Sindora* sp., 1 ♀, *Azadirachta excelsa*, 1 ♂ 13 ♀, *Sandricum* sp., 1 ♂ 38 ♀, *Dactylocladus stenostachys*, 18 ♀, *Parartocarpus* sp., 5 ♀, *Xanthophyllum* sp., 9 ♀, *Combretocarpus* sp., 3 ♀, *Parinari* sp., 3 ♀, *Pometia* sp., 25 ♀, *sapotaceae* sp., 1 ♀, *Tetramerista glabra*

71. *Xyleborus concisus* BLANDFORD

Kimanis, Kudat, Tawau, Wallace Bay, Bintulu, Kuala Semanok, sejingkat, Suai, Tg. Mani; 1 ♀, *Gluta* or *Melanorroe* sp., 2 ♀, *Dyera* sp., 3 ♀, *Canarium* sp., 4 ♀, *Octomeles sumatrana*, 1 ♀, *Anisoptera* sp., 1 ♀, *Dipterocarpus* sp., 9 ♀, *Hopea* sp., 49 ♀, *Shorea* sp., 8 ♀, *Michelia* sp.

72. *Xyleborus costatomorphus* SCHEDL

Banggi, Jambongan, Sandakan, Tg. Mani; 3 ♂ 20 ♀, *Dipterocarpus* sp., 20 ♀, *Shorea* sp.

73. *Xyleborus cryphaloides* SCHEDL

Tawau, Bintulu, Kuala Semanok, Suai, Tatau, Tg. Baram; 1 ♀, *Dyera* sp., 2 ♂ 34 ♀, *Dipterocarpus* sp., 11 ♀, *Dryobalanops* sp., 9 ♀, *Shorea* sp.

74. *Xyleborus cylindromorphus* EGGERS

Kudat, Sandakan, Tambisan, Tawau, Bintulu, Sibuti, Suai, Tatau, Tg. Baram, Tg. Mani; 1 ♀, *Anisoptera* sp., 19 ♀, *Dipterocarpus* sp., 4 ♂ 56 ♀, *Dryobalanops* sp., 1 ♀, *Hopea* sp., 2 ♂ 19 ♀, *Shorea* sp., 1 ♀, *Vatica* sp.

75. *Xyleborus dalbergiae* EGGERS

Kimanis, Kudat, Tawau, Wallace Bay ; 2 ♀, *Dipterocarpus* sp., 1 ♀, *Dryobalanops* sp., 7 ♀, *Shorea* sp.

76. *Xyleborus dentipennis* BROWNE

Marudu Bay, Tatau ; 6 ♀, *Dipterocarpus* sp., 3 ♀, *Shorea* sp.

77. *Xyleborus destruens* BLANDFORD

Kudat, Madai, Sandakan, Bintulu, Tg. Mani ; 1 ♀, *Parishia* sp., 4 ♀, *Octomeles sumatrana*, 1 ♀, *Vatica* sp., 1 ♀, *Homalium* sp., 6 ♀, *Gonystylus* sp., 9 ♀, *Parartocarpus* sp.

78. *Xyleborus dolosus* BLANDFORD

Various shipment localities ; 2 ♀, *Buchanania* sp., 3 ♀, *Gluta* or *Melanorroe*a sp., 9 ♀, *Parishia* sp., 1 ♀, *Annoaceae* sp., 1 ♀, *Canarium* sp., 1 ♀, *Octomeles sumatrana*, 3 ♂ 281 ♀, *Anisoptera* sp., 17 ♂ 1,135 ♀, *Dipterocarpus* sp., 5 ♂ 170 ♀, *Dryobalanops* sp., 74 ♀, *Hopea* sp., 7,343 ♀, *Shorea* sp., 3 ♀, *Upuna borneensis*, 12 ♀, *Vatica* sp., 3 ♀, *Sindora* sp., 1 ♀, *Palaquium* sp., 5 ♀, *Sapotaceae* sp.

79. *Xyleborus emarginatus* EICHHOFF

Various shipment localities ; 5 ♀, *Buchanania* sp., 14 ♀, *Gluta* or *Melanorroe*a sp., 10 ♀, *Mangifera* sp., 12 ♀, *Parishia* sp., 14 ♀, *Annonaceae* sp., 2 ♀, *Alstonia* sp., 1 ♂ 85 ♀, *Dyera* sp., 10 ♀, *Agathis* sp., 8 ♀, *Durio* sp., 5 ♂ 148 ♀, *Canarium* sp., 2 ♀, *Lophopetalum* sp., 2 ♀, *Terminalia* sp., 8 ♀, *Octomeles sumatrana*, 9 ♂ 333 ♀, *Anisoptera* sp., 38 ♂ 1,570 ♀, *Dipterocarpus* sp., 2 ♂ 154 ♀, *Dryobalanops* sp., 1 ♀, *Hopea* sp., 15 ♂ 975 ♀, *Shorea* sp., 3 ♀, *Upuna borneensis*, 16 ♀, *Vatica* sp., 4 ♀, *Quercus omalokos*, 7 ♀, *Gonystylus* sp., 1 ♀, *Calophyllum* sp., 1 ♀, *Litsea* sp., 2 ♀, *Albizia* sp., 5 ♀, *Dialium* sp., 2 ♀, *Intsia* sp., 1 ♂ 40 ♀, *Koompassia malaccensis*, 3 ♀, *K. excelsa*, 1 ♀, *Pseudosindora* sp., 1 ♀, *Michelia* sp., 1 ♂ 12 ♀, *Dactylocladus stenostachys*, 2 ♀, *Artocarpus* sp., 5 ♀, *Parartocarpus* sp., 11 ♀, *Myristicaceae* sp., 1 ♂ 13 ♀, *Eugenia* sp., 1 ♀, *Combretocarpus* sp., 2 ♀, *Pometia* sp., 8 ♀, *Palaquium* sp., 1 ♀, *Planchonella* sp., 1 ♂ 15 ♀, *Sapotaceae* sp., 12 ♀, *Duabanga* sp., 2 ♀, *Pterocymbium* ? *beccarii*, 1 ♀, *Pterygota horsfieldii*, 2 ♀, *Scaphium* sp., 6 ♀, *Tarrietia* sp., 5 ♀, *Tetramerista glabra*, 3 ♀, *Pentace* sp.

80. *Xyleborus exiguus* (WALKER)

Various shipment localities ; 5 ♀, *Buchanania* sp., 3 ♀, *Dracontomelon puberulum*, 35 ♀, *Gluta* or *Melanorroe*a sp., 22 ♀, *Mangifera* sp., 47 ♀, *Parishia* sp., 1 ♀, *Spondias* sp., 1 ♀, *Annonaceae* sp., 124 ♀, *Agathis* sp., 24 ♀, *Canarium* sp., 1 ♀, *Terminalia* sp., 2 ♂ 42 ♀, *Anisoptera* sp., 21 ♂ 1,357 ♀, *Dipterocarpus* sp., 4 ♂ 238 ♀, *Dryobalanops* sp., 2 ♂ 396 ♀, *Shorea* sp., 1 ♀, *Gonystylus* sp., 5 ♀, *Calophyllum* sp., 43 ♀, *Cratoxylum arborescens*, 1 ♂ 82 ♀, *Albizia* sp., 27 ♀, *Koompassia malaccensis*, 11 ♀, *Pseudosindora* sp., 2 ♂ 125 ♀, *Sindora* sp., 16 ♀, *Dactylocladus stenostachys*, 2 ♀, *Sandricum* sp., 6 ♀, *Myristicaceae* sp., 3 ♀, *Xanthophyllum* sp., 8 ♀, *Combretocarpus* sp., 14 ♀, *Pometia* sp., 17 ♀, *Sapotaceae* sp., 2 ♂ 26 ♀, *Irvingia malayana*, 2 ♀, *Tarrietia* sp., 8 ♀, *Pentace* sp., 6 ♀, *Gmelina arborea*

81. *Xyleborus eximius* SCHEDL

Bintulu, Tg. Salirong ; 5 ♂ 8 ♀, *Anisoptera* sp., 2 ♀, *Dipterocarpus* sp.

82. *Xyleborus fallax* EICHHOFF

Various shipment localities ; 1 ♀, *Buchanania* sp., 1 ♀, *Dracontomelon puberulum*, 1 ♂ 5 ♀, *Gluta* or *Melanorroe*a sp., 2 ♀, *Annonaceae* sp., 4 ♀, *Alstonia* sp., 2 ♂ 34 ♀, *Dyera* sp., 7 ♀, *Agathis* sp., 12 ♀, *Octomeles sumatrana*, 5 ♂ 231 ♀, *Anisoptera* sp., 12 ♂ 832 ♀, *Dipterocar-*

pus sp., 1♂87♀, *Dryobalanops* sp., 11♂703♀, *Shorea* sp., 27♀, *Vatica* sp., 8♀, *Gonystylus* sp., 1♀, *Calophyllum* sp., 1♀, Lauraceae sp., 1♀, *Sindora* sp., 3♀, *Dactylocladus stenostachys*, 2♀, *Parartocarpus* sp., 1♀, Myristicaceae sp., 1♀, *Eugenia* sp., 7♀, *Planchonella* sp., 7♀, Sapotaceae sp., 1♀, *Ailanthus integrifolia*, 1♀, *Scaphium* sp.

83. *Xyleborus ferrugineus* (FABRICIUS)

Various shipment localities ; ♀, *Mangifera* sp., 3♀, *Parishia* sp., 3♀, *Dyera* sp., 5♀, *Canarium* sp., 1♀, *Octomeles sumatrana*, 2♂55♀, *Anisoptera* sp., 2♂153♀, *Dipterocarpus* sp., 26♀, *Dryobalanops* sp., 1♂72♀, *Shorea* sp., 6♀, *Calophyllum* sp., 6♀, *Koompassia malaccensis*, 3♂27♀, *K. excelsa*, 11♀, *Sindora* sp., 4♂103♀, *Dactylocladus stenostachys*, 3♀, *Toona ? sureni*, 1♀, *Combretocarpus* sp., 4♀, *Palaquium* sp., 3♀, Sapotaceae sp., 5♀, *Tarrietia* sp., 1♀, *Tetramerista glabra*

84. *Xyleborus funereus* LEA

Kudat ; 2♀, *Octomeles sumatrana*

85. *Xyleborus glabratus* BROWNE

Tawau, Bintulu ; 5♀, *Dryobalanops* sp.

86. *Xyleborus hastatus* SCHEDL

Tawau, Bintulu, Tatau ; 8♀, *Dryobalanops* sp., 1♂38♀, *Shorea* sp.

87. *Xyleborus hatanakia* BROWNE

Tawau, Bintulu, Tatau ; 8♀, *Dryobalanops* sp., 1♂38♀, *Shorea* sp.

88. *Xyleborus insignis* BROWNE

Wallace Bay ; 3♀, *Albizia* sp.

89. *Xyleborus interjectus* BLANDFORD

Banggi, Kudat, Bintulu, Miri, Sejingkat, Sibuti, Suai, Tatau, Tg. Baram, Tg. Mani ; 3♀, *Mangifera* sp., 1♀, *Dyera* sp., 38♀, *Octomeles sumatrana*, 9♀, *Anisoptera* sp., 12♀, *Dipterocarpus* sp., 5♀, *Shorea* sp., 17♀, *Endospermum ? medullosum*, 9♀, *Trichadenia philippinensis*, 19♀, *Intsia* sp., 3♀, *Koompassia malaccensis*, 7♀, *Antiaris* sp., 5♀, *Parartocarpus* sp., 2♀, *Pometia* sp., 1♀, Sapotaceae sp., 1♂11♀, *Ailanthus integrifolia*, 4♂52♀, *Pterygota horsfieldii*, 6♀, *Scaphium* sp.

90. *Xyleborus javanus* EGGERS

Kimanis ; 6♀, *Anisoptera* sp., 1♀, *Shorea* sp., 4♀, *Gmelina arborea*

91. *Xyleborus justus* SCHEDL

Kimanis, Bintulu, Suai, Tatau, Tg. Mani ; 1♀, *Canarium* sp., 6♀, *Dipterocarpus* sp., 1♂57♀, *Shorea* sp., 2♀, *Vatica* sp.

92. *Xyleborus katoi* BROWNE

Kudat, Tatau, Tg. Mani ; 2♀, *Dipterocarpus* sp., 2♀, *Shorea* sp.

93. *Xyleborus kelantanus* SCHEDL

Kudat, Bintulu, Kuala Semanok, Tg. Mani ; 4♀, *Dipterocarpus* sp., 3♀, *Dryobalanops* sp., 5♀, *Shorea* sp.

94. *Xyleborus laevis* EGGERS

Bintulu ; 1♀, unidentified log

95. *Xyleborus lewisi* BLANDFORD

Kimanis, Tawau, Kuala Semanok ; 1♀, *Agathis* sp., 1♀, *Canarium* sp., 2♀, *Anisoptera* sp.

96. *Xyleborus macropterus* SCHEDL
Various shipment localities ; 99♂878♀, *Dipterocarpus* sp., 14♂141♀, *Dryobalanops* sp., 2♀, *Hopea* sp., 50♂483♀, *Shorea* sp., 1♂10♀, *Vatica* sp., 1♀, Sapotaceae sp.
97. *Xyleborus mancus* BLANDFORD
Wallace Bay ; 3♀, *Albizia* sp.
98. *Xyleborus micrographus* SCHEDL
Bintulu ; 1♂4♀, *Shorea* sp.
99. *Xyleborus minor* STEBBING
Tawau, Kuala Semanok, Tg. Baram ; 1♀, *Canarium* sp., 1♀, *Dipterocarpus* sp., 1♀, *Irvingia malayana*
100. *Xyleborus multipunctatus* BROWNE
Various shipment localities ; 3♂61♀, *Canarium* sp.
101. *Xyleborus nodulosus* EGGERS
Kudat, Tawau, Tatau, Tg. Baram, Tg. Mani, Tg. Salirong ; 4♀, *Octomeles sumatrana*, 1♀, *Anisoptera* sp., 5♀, *Dipterocarpus* sp., 1♀, *Shorea* sp.
102. *Xyleborus nudibrevis* SCHEDL
Bintulu, Suai ; 1♀, *Shorea* sp., 2♀, *Gonystylus* sp.
103. *Xyleborus nugax* SCHEDL
Tawau ; 1♀, *Dipterocarpus* sp.
104. *Xyleborus nutans* SCHEDL
Bintulu, Suai, Tatau, Tg. Mani ; 12♂84♀, *Parishia* sp., 32♀, *Canarium* sp., 10♀, *Dipterocarpus* sp., 13♀, *Cratoxylum arborescens*
105. *Xyleborus perforans* (WOLLASTON)
Various shipment localities ; 525♂41,644♀, were collected from trees in 78 genera 37 families
106. *Xyleborus piceus* (MOTSCHULSKY)
Banggi, Kudat, Sandakan, Tawau, Bintulu, Sejingkat, Tg. Baram, Tg. Mani ; 1♀, *Canarium* sp., 15♀, *Octomeles sumatrana*, 2♀, *Anisoptera* sp., 4♀, *Dipterocarpus* sp., 4♀, *Shorea* sp., 14♀, *Hydnocarpus* sp., 2♀, *Gonystylus* sp., 4♀, *Antiaris* sp., 4♀, *Parartocarpus* sp., 1♀, *Ailanthus integrifolia*
107. *Xyleborus pruinosis* BLANDFORD
Kudat, Suai, Tatau, Tg. Mani ; 2♂103♀, *Canarium* sp.
108. *Xyleborus pseudocylindricus* EGGERS
Kudat, Tambisan, Bintulu, Kuala Semanok ; 3♀, *Dryobalanops* sp., 2♂28♀, *Shorea* sp.
109. *Xyleborus pseudopilifer* SCHEDL
Various shipment localities ; 2♀, *Canarium* sp., 2♀, *Terminalia* sp., 1♂18♀, *Anisoptera* sp., 219♂1,835♀, *Dipterocarpus* sp., 10♂130♀, *Dryobalanops* sp., 44♂470♀, *Shorea* sp., 11♂67♀, *Vatica* sp., 1♀, Myristicaceae sp., 1♀, *Pometia* sp., 1♀, Sapotaceae sp., 1♀, *Scaphium* sp.
110. *Xyleborus pumilus* EGGERS
Madai, Sindomin, Bintulu ; 1♀, *Canarium* sp., 1♀, *Shorea* sp., 1♀, *Artocarpus* sp., 7♀, Sapotaceae sp.
111. *Xyleborus punctatissimus* EICHHOFF

Kudat, Tawau, Bintulu, Miri, Tg. Baram, Tg. Mani; 1 ♀, *Dipterocarpus* sp., 13 ♀, *Shorea* sp., 1 ♀, Sapotaceae sp.

112. *Xyleborus quadraticollis* EGGERS

Kudat; 2 ♀, *Octomeles sumatrana*

113. *Xyleborus sejugatus* SCHEDL

Kimanis, Tambisan, Bintulu, Lawas, Tatau, Tg. Baram; 1 ♀, *Agathis* sp., 5 ♀, *Dipterocarpus* sp., 4 ♀, *Dryobalanops* sp., 2 ♀, *Shorea* sp.

114. *Xyleborus sexspinatus* SCHEDL

Various shipment localities; 11 ♂161 ♀, *Dipterocarpus* sp., 3 ♂18 ♀, *Dryobalanops* sp., 6 ♂62 ♀, *Shorea* sp., 1 ♀, *Vatica* sp., 1 ♀, *Sandricum* sp., 1 ♀, *Tarrietia* sp.

115. *Xyleborus shoreae* (STEBBING)

Kudat, Bintulu; 1 ♀, *Dipterocarpus* sp., 1 ♀, *Shorea* sp.

116. *Xyleborus siclus* SCHEDL

Various shipment localities: 1 ♀, *Kokoona* sp., 1 ♀, *Anisoptera* sp., 24 ♂226 ♀, *Dipterocarpus* sp., 2 ♂47 ♀, *Dryobalanops* sp., 14 ♀, *Shorea* sp., 1 ♀, *Kayea* sp., ♀, *Sindora* sp.

117. *Xyleborus similis* FERRARI

Various shipment localities; 1 ♀, *Dracontomelon puberulum*, 5 ♀, *Gluta* or *Melanorroea* sp., 17 ♀, *Mangifera* sp., 1 ♀, Annonaceae sp., 2 ♀, *Alstonia* sp., 2 ♀, *Dyera* sp., 3 ♀, *Agathis* sp., 2 ♂42 ♀, *Durio* sp., 24 ♀ *Canarium* sp., 1 ♀, *Kokoona* sp., 30 ♀, *Lophopetalum* sp., 6 ♀, *Terminalia* sp., 128 ♀, *Octomeles sumatrana*, 1 ♀, *Dillenia* sp., 104 ♀, *Anisoptera* sp., 30 ♂1,145 ♀, *Dipterocarpus* sp., 3 ♂162 ♀, *Dryobalanops* sp., 9 ♂248 ♀, *Shorea* sp., 1 ♀, *Vatica* sp., 1 ♀, *Drypetes* sp., 1 ♀, *Quercus omalokos*, 8 ♀, *Hydnocarpus* sp., 1 ♂5 ♀, *Trichadenia philippinensis*, 1 ♀, *Calophyllum* sp., 2 ♀, *Cratoxylum arborescens*, 1 ♂15 ♀, Lauraceae sp., 6 ♂86 ♀, *Albizia* sp., 1 ♀, *Acacia* sp., 21 ♀, *Intsia* sp., 1 ♂13 ♀, *Koompassia malaccensis*, 2 ♀, *K. excelsa*, 1 ♂32 ♀, *Sindora* sp., 1 ♀, *Michelia* sp., 3 ♂27 ♀, *Dactylocladus stenostachys*, 1 ♀, *Chisocheton* sp., 2 ♀, *Toona ? sureni*, 1 ♀, *Antiaris* sp., 2 ♀, *Artocarpus* sp., 17 ♀, *Parartocarpus* sp., 1 ♀, Myristicaceae sp., 1 ♀, *Eucalyptus deglupta*, 1 ♀, *Eugenia* sp., 2 ♀, *Xanthophyllum* sp., 1 ♀, *Combretocarpus* sp., 1 ♂22 ♀, *Parinari* sp., 3 ♀, *Pometia* sp., 1 ♂16 ♀, *Palaquium* sp., 1 ♂10 ♀, Sapotaceae sp., 3 ♀, *Ailanthus integrifolia*, 1 ♀, *Irvingia malayana*, 26 ♀, *Pterygota horsfieldii*, 4 ♀, *Scaphium* sp., 6 ♀, *Tarrietia* sp., 4 ♀, *Pentace* sp., 2 ♀, *Gmelina arborea*

118. *Xyleborus spicatus* BROWNE

Marudu Bay; 5 ♀, *Dipterocarpus* sp.

119. *Xyleborus spinatus* EGGERS

Bintulu, Sejingkat, Tatau; 55 ♀, *Octomeles sumatrana*, 7 ♀, unidentified log.

120. *Xyleborus subagnatus* SCHEDL

Kimanis, Lawas; 1 ♀, *Agathis* sp., 2 ♀, Sapotaceae sp.

121. *Xyleborus subcostatus* EICHHOFF

Various shipment localities; 17 ♂64 ♀, *Gluta* of *Melanorroea* sp., 6 ♂20 ♀, *Parishia* sp., ♀, Annonaceae sp., 5 ♀, *Dyera* sp., 1 ♀, *Agathis* sp., 2 ♀, *Canarium* sp., 1 ♂22 ♀, *Anisoptera* sp., 23 ♂150 ♀, *Dipterocarpus* sp., 1 ♂7 ♀, *Dryobalanops* sp., 16 ♂152 ♀, *Shorea* sp., 2 ♀ Lauraceae sp., 1 ♂26 ♀, *Koompassia malaccensis*, 12 ♂53 ♀, *Pseudosindora* sp., 16 ♀, *Dactylocladus stenostachys*, 1 ♀, *Parartocarpus* sp., 3 ♂9 ♀, Sapotaceae sp., 1 ♀, *Tarrietia* sp.

122. *Xyleborus subdolosus* SCHEDL

Kimanis, Kudat, Tambisan, Bintulu, Kuala Semanok, Suai, Tatau, Tg. Baram, Tg. Mani; 46 ♀, *Anisoptera* sp., 14 ♀, *Dipterocarpus* sp., 3 ♀, *Dryobalanops* sp., 4 ♀, *Hopea* sp., 73 ♀, *Shorea* sp., 16 ♀, *Vatica* sp.

123. *Xyleborus tuberculosus* BROWNE

Tambisan, Bintulu, Sematan, Tg. Mani; 10 ♀, *Dipterocarpus* sp., 1 ♀, *Dryobalanops* sp., 1 ♀, *Shorea* sp.

124. *Xyleborus tunggali* SCHEDL

Madai, Tambisan, Tawau, Bintulu, Suai, Tg. Baram, Tg. Mani, Tg. Salirong; 2 ♂ 34 ♀, *Canarium* sp., 8 ♀, *Dipterocarpus* sp.

125. *Xyleborus ursulus* EGGERS

Kimanis, Bintulu; 3 ♀, *Shorea* sp.

126. *Xyleborus volvulus* (FABRICIUS)

Various shipment localities; 42 ♀, *Dracontomelon puberulum*, 10 ♀, *Gluta* or *Melanoroea* sp., 21 ♀, *Mangifera* sp., 17 ♀, *Parishia* sp., 2 ♀, *Annonaceae* sp., 1 ♀, *Alstonia* sp., 2 ♀, *Dyera* sp., 11 ♀, *Agathis* sp., 1 ♀, *Durio* sp., 1 ♂ 50 ♀, *Canarium* sp., 1 ♀, *Lophopetalum* sp., 2 ♀, *Terminalia* sp., 16 ♀, *Octomeles sumatrana*, 1 ♂ 173 ♀, *Anisoptera* sp., 4 ♂ 1,091 ♀, *Dipterocarpus* sp., 25 ♀, *Dryobalanops* sp., 1 ♀, *Hopea* sp., 3 ♂ 319 ♀, *Shorea* sp., 4 ♀, *Vatica* sp., 1 ♀, *Trichadenia philippinensis*, 2 ♀, *Gonystylus* sp., 4 ♀, *Calophyllum* sp., 1 ♀, *Cratoxylum arborescens*, 2 ♀, *Lauraceae* sp., 12 ♀, *Planchonia* sp., 4 ♂ 236 ♀, *Albizia* sp., 21 ♀, *Intsia* sp., 2 ♂ 6 ♀, *Koompassia malaccensis*, 2 ♀, *K. excelsa*, 6 ♀, *Pseudosindora* sp., 3 ♀, *Sindora* sp., 12 ♀, *Dactylocladus stenostachys*, 1 ♀, *Azadirachta excelsa*, 3 ♀, *Sandricum* sp., 1 ♀, *Toona ? sureni*, 1 ♀, *Antiaris* sp., 9 ♀, *Artocarpus* sp., 4 ♀, *Ficus* sp., 1 ♂ 26 ♀, *Parartocarpus* sp., 5 ♀, *Myristicaceae* sp., 3 ♀, *Eugenia* sp., 2 ♀, *Xanthophyllum* sp., 1 ♂ 62 ♀, *Combretocarpus* sp., 1 ♀, *Anthocephalus chinensis*, 1 ♀, *Neonauclea* sp., 2 ♀, *Pometia* sp., 1 ♀, *Planchonella* sp., 34 ♀, *Sapotaceae* sp., 1 ♀, *Ailanthus integrifolia*, 24 ♀, *Irvingia malayana*, 1 ♀, *Duabanga moluccana*, 10 ♀, *Pterocymbium ? beccarii*, 1 ♀, *Pterospermum* sp., 6 ♀, *Pterygota horsfieldii*, 24 ♀, *Scaphium* sp., 1 ♀, *Sterculia* sp., 6 ♀, *Tarrietia* sp., 1 ♂ 4 ♀, *Tetramerista glabra*

127. *Cryptoxyleborus dryobalanopsis* SCHEDL

Tatau; 1 ♀, *Dipterocarpus* sp.

128. *Cryptoxyleborus major* BROWNE

Bintulu, Tatau, Tg. Mani; 12 ♀, *Dipterocarpus* sp., 1 ♀, *Shorea* sp.

129. *Cryptoxyleborus shoreae* BROWNE

Bintulu; 1 ♀, *Dipterocarpus* sp.

130. *Cryptoxyleborus subnaevus* SCHEDL

Various shipment localities; 1 ♂ 35 ♀, *Dipterocarpus* sp., 5 ♀, *Dryobalanops* sp., 1 ♂ 144 ♀, *Shorea* sp.

131. *Schedlia sumatrana* (HAGEDORN)

Kimanis, Tawau, Wallace Bay, Bintulu; 1 ♀, *Dipterocarpus* sp., 5 ♀, *Shorea* sp.

132. *Webbia dasyurus* BROWNE

Kimanis, Tambisan, Bintulu, Tatau, Tg. Mani; 9 ♀, *Dipterocarpus* sp., 1 ♀, *Dryobalanops* sp., 4 ♀, *Shorea* sp.

133. *Webbia divisus* BROWNE

- Bintulu ; 22 ♀, *Shorea* sp.
134. *Webbia multidentatus* BROWNE
Kimanis ; 2 ♀, *Shorea* sp.
135. *Webbia orbicularis* SCHEDL
Kimanis, Bintulu, Tatau ; 5 ♀, *Dipterocarpus* sp., 13 ♀, *Dryobalanops* sp., 7 ♀, *Shorea* sp.
136. *Webbia pabo* SAMPSON
Kudat, Weston ; 3 ♀, *Dipterocarpus* sp., 21 ♀, *Dryobalanops* sp.
137. *Webbia penicillatus* (HAGEDORN)
Bintulu, Tg. Mani ; 4 ♀, *Dipterocarpus* sp., 4 ♀, *Shorea* sp.
138. *Webbia sarawakensis* SCHEDL
Suai : 3 ♂ 118 ♀, *Palaquium* sp.
139. *Webbia spinipennis* SCHEDL
Kudat, Tg. Mani ; 13 ♀, *Vatica* sp.
140. *Webbia 18-spinatus* SAMPSON
Kimanis, Kudat, Sandakan, Tawau, Wallace Bay, Bintulu, Suai, Tatau, Tg. Baram, Tg. Mani ; 1 ♂ 31 ♀, *Dipterocarpus* sp., 8 ♀, *Dryobalanops* sp., 1 ♂ 10 ♀, *Shorea* sp.
141. *Webbia 30-spinatus* SAMPSON
Kudat, Sandakan, Tawau, Wallace Bay, Bintulu, Suai, Tatau, Tg. Baram, Tg. Mani ; 10 ♂ 260 ♀, *Dipterocarpus* sp., 2 ♀, *Dryobalanops* sp., 1 ♀, *Shorea* sp.
142. *Eccoptypterus gracilipes* (EICHHOFF)
Kimanis, Kudat, Tawau, Bintulu, Lawas, Suai ; 3 ♀, *Agathis* sp., 7 ♀, *Anisoptera* sp., 1 ♂ 3 ♀, *Dipterocarpus* sp., 9 ♂ 112 ♀, *Shorea* sp., 3 ♀, Lauraceae sp., 1 ♀, *Gmelina arborea*
143. *Eccoptypterus limbus* SAMPSON
Kimanis, Suai ; 1 ♂ 8 ♀, *Shorea* sp.
144. *Eccoptypterus spinosus* (OLIVIER)
Kudat, Tagasan, Tg. Salirong ; 1 ♀, *Octomeles sumatrana*, 2 ♀, *Shorea* sp., 4 ♀, *Vatica* sp., 1 ♀, Lauraceae sp.