

**The Moths of Borneo:
building on the past with the benefit of fresh field sampling
to construct a taxonomic foundation for the future**

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Borneo moth collectors where significant material has been deposited in London (BMNH)

| | |
|-----------|---|
| 1854-6 | Wallace (also in OUMNH, Oxford) |
| 1890's | Everett, Pryer, Shelford Doherty (Pulo Laut, S.E. Borneo) |
| 1892-1903 | Waterstradt (Labuan, G. Kinabalu; also in MNHU, Berlin) |
| 1900's | Brooks (Bidi, Sarawak) Simons & Meligan (Pontianak in Kalimantan) Ridley (Director, Singapore Botanic Gardens) |
| 1920's | Mjöberg (Sarawak mountains; Curator, Sarawak Museum) Pendlebury & Chasen (G. Kinabalu; Federated Malay States Museum) |
| 1938 | Walsh (Samarinda in Kalimantan) |
| 1950 | Hedley (Kretam in Sabah) |
| 1960's | Smart; Banks, Barlow & Holloway (G. Kinabalu) |
| 1970's | Holloway, Barlow, Marshall (G. Mulu Nat. Park, Sarawak) Bacchus (G. Trus Madi) Guichard (G. Kinabalu, Brumas in E. Sabah) Classey (G. Kinabalu, Semengok near Kuching) |
| 1980's | Allen, Fairclough, Gauld, Harman, Helps, Robinson, Tennent, Tuck (Brunei) Oxford Far East Expedition (G. Santubong in Sarawak) |
| 1990's | Chey & colleagues, Kirk-Spriggs, Willott (mostly Danum Valley and E. Sabah) |
| 2000's | Chey, Karim, Martin, Morris |

Percentages of Bornean of Sphingidae, Noctuidae, Geometridae and Lasiocampidae species in six distribution categories

| | Sphingidae | Noctuidae | Geometridae | Lasiocampidae |
|----------------------|-------------------|------------------|--------------------|----------------------|
| Endemic | 1 | 25 | 28 | 15 |
| Sunda | 22 | 22 | 30 | 45 |
| Sunda + Wallacea | 5 | 6 | 9 | 9 |
| Himalaya to Sunda | 11 | 12 | 9 | 19 |
| Wide Oriental | 35 | 13 | 15 | 18 |
| Indo-Australian | 26 | 22 | 9 | - |

Statistics for Moths of Borneo species and taxonomic changes

| | Initial list | Moths of Borneo (% increase) | New species (% of MoB total) | Specific synonymies | New combinations |
|---------------|--------------|---------------------------------|---------------------------------|------------------------|---------------------|
| Cossidae | 32 | 39 (22) | 7 (18) | 3 | 1 |
| Limacodidae | 65 | 95 (46) | 37 (39) | 18 | 34 |
| Bombycidae | 15 | 15 (-) | 1 (7) | 3 | 1 |
| Eupterotidae | 12 | 15 (25) | 4 (27) | 3 | 1 |
| Lasiocampidae | 38 | 62 (63) | 17 (27) | 3 | 28 |
| Saturniidae | 20 | 22 (10) | 1 (5) | - | 1 |
| Sphingidae | 82 | 94 (15) | 1 (1) | 7 | - |
| Uraniidae | 48 | 90 (88) | 24 (27) | 14 | 79 |
| Drepanidae | 71 | 108 (52) | 19 (18) | 20 | 15 |
| Geometridae | 796 | 1080 (36) | 191 (18) | 130 | 436 |
| Notodontidae | 83 | 123 (48) | 23 (19) | 33 | 30 |
| Lymantriidae | 253 | 297 (17) | 74 (25) | 42 | 213 |
| Arctiidae | 251 | 395 (57) | 132 (33) | 59 | 139 |
| Nolidae | 319 | 393 (23) | 92 (23) | 72 | 91 |
| Noctuidae | 959 | 1525 (59) | 408 (27) | 198 | 395 |
| TOTAL | 3045 | 4353 (43) | 1031 (24) | 605 | 1464 |

Changes in the taxonomy and recording of the noctuid subfamily Euteliinae

| Initial list | | Final list | |
|---------------------|--------------------|--------------------|---|
| 47 spp. | | 74 spp. | |
| <i>Penicillaria</i> | 4 spp. | | 6 spp. (1 new record) |
| <i>Eutelia</i> | <i>fulvipicta</i> | = | <i>Eutelia</i> (= <i>Phlegetonia</i>) absent from Borneo |
| 12 spp. | <i>plusioides</i> | | |
| | <i>diplographa</i> | <i>Aplotelia</i> | 2 spp. |
| | <i>nubilosa</i> | | |
| | <i>sinuosa</i> | <i>Phalga</i> | 1 sp. |
| | <i>josephinae</i> | | |
| | <i>approximata</i> | <i>Atacira</i> | 17 spp. (4 new records, 10 new spp.) |
| | <i>dimidiata</i> | | |
| | <i>vittalba</i> | <i>Targallodes</i> | 1 sp. |
| | <i>angulifera</i> | | |
| | <i>obliquata</i> | <i>Caedesa</i> | 2 spp. |
| | <i>suffundens</i> | = | <i>Kobestelia</i> 2 spp. (1 new sp.) |
| <i>Phlegetonia</i> | <i>agropoides</i> | | |
| 6 spp. | <i>bryochlora</i> | | |
| | <i>delatrix</i> | | |
| | <i>atripars</i> | <i>Targalla</i> | 11 spp. (3 new records, 2 stat. rev., 1 new sp.) |
| | <i>apicifascia</i> | | |
| | <i>transversa</i> | | |
| <i>Chlumetia</i> | 4 spp. | | 5 spp. (3 new spp.; only 2 of original list confirmed) |
| <i>Anigraea</i> | 6 spp. | | 9 spp. (3 new records) |
| <i>Anuga</i> | 8 spp. | | 10 spp. (3 new spp.; one of original list not confirmed) |
| <i>Paectes</i> | 7 spp. | | 8 spp. (1 new sp.) |