

XIII. *On the Asiatic Lepidoptera referred to the genus Mycalesis; with descriptions of new genera and species.* By F. MOORE, F.Z.S., &c.

[Read October 6th, 1880.]

THE Asiatic species of butterflies hitherto described under the genus *Mycalesis* are primarily divisible into three groups: the first comprising species of which the males possess a glandular-pouch (or scent-producing organ) covered by a tuft of hair on both the fore and hind wings; the second group of species possessing it on the hind wings only; and the third of species which have two on the hind wings.

These three groups, again, are composed of a number of forms mostly possessing a different vein structure. Thus separated they fall into a natural assemblage of species.

I have not ventured into an examination of the African species further than the determination of the form and structure of the type of the genus *Mycalesis* (viz. *M. Evadne*, Cramer); finding, however, that this form has no congener among the Asiatic representatives, and that most of the described African species are generically distinct from *Mycalesis*, some of them, moreover, having no affinity with that genus of *Satyrinæ*.

Group I. *With a glandular pouch and tuft on both wings.*

N. g. VIRAPA.

Fore wing with costa arched in the middle, apex convex, exterior margin oblique and even, posterior angle acute; costal, subcostal, and median veins swollen at the base; first subcostal branch emitted immediately before end of the cell; disco-cellulars bent inward at their middle; radials from upper near the cell. Male with a glandular patch of raised scales on the middle of submedian vein, the patch being partially covered by a tuft of long fine hairs exerted outward from each side of the vein. Hind wing oval, exterior margin convex; first subcostal in male much curved upward at the base and thence straight to apex, emitted at more than half distance before end of the cell, second very concave from

base of first to end of the cell; upper disco-cellular outwardly convex, lower straight and oblique, radial from their middle; two upper median branches emitted at some distance beyond end of the cell. Male with a tuft of fine long hairs exerted over a glandular patch at end of subcostal vein. Eyes very slightly hairy. Antennæ with a well-formed slender club. Palpi uniformly pilose beneath to tip.

Type. *V. Anaxias*.

Virapa Anaxias.

Mycalesis Anaxias, Hewitson, Exotic Butt. iii. p. 86; *Myc.* pl. 4, figs. 25, 26 (1862).

Hab.—Darjiling (*Atkinson*); Khasia Hills (*Austen*); Nilgiris.

Virapa Radza.

Mycalesis Radza, Moore, P.Z.S., 1877, p. 583, pl. 58, fig. 1.

Hab.—Andaman Isles.

N. g. GARERIS.

Wings broader than in *Virapa*. Fore wing more angular at apex, the costa much more arched, venation of male and the glandular patch of raised scales and tuft similar. Hind wing with the first subcostal branch in the male swollen beneath at its base above the cell, and covered on the upper side by a tuft of hair; the two upper median branches emitted from end of the cell. Eyes hairy.

Type. *G. Sanatana*, Moore.

Gareris Sanatana.

Mycalesis Sanatana, Moore, Catal. Lep. Mus. E. I. C. i. p. 231 (1857).

Hab.—Darjiling (*Atkinson*); Khasia Hills (*Austen*).

Gareris Francisca.

Papilio Francisca, Cramer, Pap. Exot. iv., pl. 326, f. E. F. (1780), ♀.

Hab.—China.

Gareris Perdiccas.

Mycalesis Perdiccas, Hewitson, Exotic Butt. iii. p. 84;
Myc. pl. 3, fig. 15 (1862).

Hab.—Japan; Shanghai.

Gareris Gopa.

Mycalesis Gopa, Felder, Reise Novara, Lep. iii. p. 501
(1867); Butler, Catal. Satyr. B. M. p. 140.

Hab.—Darjiling (*Atkinson*).

N. g. SATOA.

Male.—Wings short; fore wing more arched than in *Virapa*, apex more rounded; exterior margin less oblique; second subcostal branch emitted before end of the cell; a tuft of fine hair covering a glandular patch below submedian vein; hind wing subconical, exterior margin oblique, anal angle convex, abdominal margin short; a tuft of fine hair covering a glandular subcostal patch; cell short, broad at its end; subcostal deeply recurved at its end, first branch emitted near end of the cell, second bent downward; disco-cellulars straight, slightly oblique; middle median emitted before end of the cell. Antennæ with a slender club; palpi somewhat stout. Eyes hairy.

Satoa Maianeas.

Mycalesis Maianeas, Hewitson, Exotic Butt. iii. p. 87;
Myc. pl. 5, figs. 27, 28 (1864), ♀; Butler, Catal.
Satyr. B. M. p. 131.

Hab.—Malay Peninsula (Malacca); Borneo (Sarawak).

N. g. SADARGA.

Fore wing shorter, with more rounded and less oblique exterior margin than in *Virapa*; venation similar, but the veins more curved. Male with a slight tuft (but no perceptible glandular patch of raised scales) on submedian vein before the swollen base. Hind wing very convex externally; first subcostal in male not curved at the base; second concave at base and much swollen beneath between first and end of the cell, and with a slight tuft of hairs above; two upper median branches

emitted from angle before end of the cell. Eyes hairy.

Type. *S. Gotama*, Moore.

Sadarga Gotama.

Mycalesis Gotama, Moore, Catal. Lep. Mus. E. I. C. i. p. 232 (1857); Butler, Catal. Satyr. B. M. p. 134.

M. borealis, Felder, Reise Novara, Lep. iii. p. 500 (1867).

Hab.—China (Shanghai); Japan.

Sadarga Madjicosa.

Mycalesis Madjicosa, Butler, Catal. Satyr. B. M. p. 137, pl. 3, fig. 10, ♀.

Hab.—Madjico-Sima.

Sadarga oculata.

Male and female.—Similar on the upper side to *S. Charaka*, the ocelli of the same large size, but the lower somewhat laterally bulged. On the under side the basal area is paler, being of a pale purplish ochreous, the discal transverse line having a much broader yellowish border; the ocelli on both wings are very prominent, and slightly larger than those in *S. Gotama*.

Expanse, ♂ $1\frac{3}{8}$, ♀ $2\frac{1}{8}$.

Hab.—N. E. India (Silhet). In Coll., F. Moore.

Sadarga Charaka.

Mycalesis Charaka, Moore, Proc. Zool. Soc. 1874, p. 566.

Hab.—N. E. India (Silhet).

N. g. DALAPA.

Fore wing more triangular than in *Gareris*, costa less arched, the exterior margin oblique. Male with a similar glandular patch of raised scales and tuft on the submedian vein, but less prominent. Hind wing not so broad, somewhat quadrate in form; exterior margin and anal angle more convex, and waved; first subcostal slightly swollen at the base beneath, tufted above; second branch with a slightly raised fold on the upper side extending from first branch to near the end. Eyes hairy. Club of antennæ thicker.

Type. *D. Sudra*.

Dalapa Sudra.

Mycalesis Sudra, Felder, Reise Novara, Lep. iii. p. 500, pl. 67, fig. 10 (1867).

Hab.—Java; Sumatra.

N. g. SURALAYA.

Fore wing comparatively long and narrow; costa slightly arched; exterior margin oblique, almost straight and even. Male with a very slight glandular patch (more distinct beneath) sparsely covered with delicate short hairs. Hind wing small, oval; exterior margin convex, waved; first subcostal branch slightly swollen at its base, second very concave at its base; cell narrow; disco-cellulars very oblique. Male with a long tuft of hair covering a glandular patch above base of first subcostal branch. Eyes almost naked. Antennal club slender.

Type. *S. Orseis*.

Suralaya Orseis.

Mycalesis Orseis, Hewitson, Exotic Butt. iii. p. 89, *Myc.* pl. 6, fig. 36, 37 (1864); Butler, Catal. Satyr. B. M. p. 136.

Hab.—Sumatra; Borneo.

GENUS ORSOTRIÆNA.

Orsotriæna, Wallengren, Kongl. Vet. Akad. Förh. xv. p. 79 (1858).

Fore wing comparatively shorter, exterior margin less oblique, apex and posterior angle convex; costal vein only, in both sexes, swollen at the base. Male with a tuft of fine hairs covering a glandular patch above the base of submedian vein. Hind wing less arched at the base, anal angle convex; first subcostal branch emitted immediately before end of the cell, middle median also emitted before lower end of the cell. Male with no erectile tuft at the base of subcostal, being replaced by a slight tuft of more delicate and recumbent hairs above and below the median vein. Eyes naked.

Type. *O. Medus*.

Orsotriæna Medus.

Papilio Medus, Fabricius, Syst. Ent. p. 488 (1775).

P. Hesione, Cramer, Pap. Exot. i. pl. 11, fig. c, d (1775).

Mycalesis Hesione, Hübner, Verz. Vek. Schmett. p. 55;
Hewits. Journ. Linn. Soc. Zool. viii. p. 146; Butler,
Catal. Fabr. Lep. B. M. p. 34.

Orsotriæna Hesione, Wallengren, Kongl. Vet. Akad. xv.
p. 80.

Papilio Doris, Cramer, Pap. Exot. iv. pl. 362, fig. c
(1782).

P. Hamilcar, Herbst, Naturs. Schmett. viii. p. 73,
pl. 193, fig. 3 (1796).

Mycalesis cinerea, Butler, Ann. Nat. Hist. 1867, p. 401,
pl. 8, f. 9.

Hab.—India (Gangetic Plains); British Burmah;
Malay Peninsula; Nicobars; Singapore; Sumatra;
Java; Flores; Timor; Macassar; Borneo (Sarawak).

Orsotriæna mutata.

Mycalesis mutata, Butler, Proc. Zool. Soc. 1875, p. 612.

Hab.—New Hebrides; New Ireland.

Orsotriæna mandata.

Mycalesis mandata, Moore, Catal. Lep. Mus. E. I. C. i.
p. 233 (1857); Butler, Catal. Satyr. B. M. p. 139.

M. Gamaliba, Butler, Ann. Nat. Hist. 1867, pl. 2, fig.
3, 3. A, B.

Hab.—S. India (Malabar); Ceylon.

Orsotriæna mandosa.

Mycalesis mandosa, Butler, Catal. Satyr. Brit. Mus.
p. 139, pl. 3, fig. 9 (1868).

Hab.—S. India (Malabar).

Orsotriæna Runeka.

Mycalesis Runeka, Moore, Catal. Lep. Mus. E. I. C. i.
p. 234 (1857).

Hab.—N. India (Darjiling, Cherra, Calcutta, Deyra
Doon); British Burmah; Hainan.

Orsotriæna Jopas.

Mycalesis Jopas, Hewitson, Exotic Butt. iii. *Myc.* pl. 4, fig. 24 (1864).

Hab.—Macassar ; Tondano ; Sula.

Group II. *With a glandular pouch and tuft on hind wing only.*

N. g. CALYSISME.

Mycalesis (part), Hübner, &c.

Wings short, broad. Fore wing with the costa arched at base, apex acute in male, less so in female, exterior margin oblique and curved, posterior angle acute ; costal, median, and submedian veins swollen at the base ; second subcostal branch emitted immediately before end of the cell ; cell broad ; disco-cellulars very concave, radials from two angles in upper near subcostal. Hind wing oval ; costa arched at base ; exterior margin convex, dentate ; first subcostal branch emitted and swollen before end of the cell ; disco-cellulars slightly concave, radial from their middle ; two upper median branches from end of the cell ; male with a tuft of long hairs at base of subcostal covering a glandular patch of scales. Body slender ; palpi porrect, slender, finely pilose beneath ; legs slender. Eyes hairy. Antennæ slender at tip.

Type. *C. Drusia*.

Calysisme Drusia.

Papilo Drusia, Cramer, Pap. Exot. i. pl. 84, fig. c, d (1875), ♀.

Mycalesis Drusia, Butler, Catal. Satyr. B. M. p. 133 ; *id.*, Catal. Fabr. Lep. B. M. p. 33.

Hab.—India (Bengal) ; Andaman and Nicobar Isles ; China (Cramer).

Calysisme Justina.

Papilio Justina, Cramer, Pap. Exot. iv. pl. 326, fig. c (1780).

Mycalesis Justina, Hübner, Verz. bek. Schmett. p. 55 ; Butler, Catal. Satyr. B. M. p. 135.

Hab.—S. India (Malabar).

Calysisme Mamerta.

Papilio Mamerta, Cramer, Pap. Exot. iv. pl. 326, fig. D (1780).

Mycalesis Mamerta, Butler, Catal. Satyr. B. M. p. 136.

Hab.—China (Cramer); Formosa (Swinhoe).

Calysisme Mineus.

Papilio Mineus, Linnæus, Syst. Nat. i. ii. p. 768 (1767); Fabricius, Syst. Ent. p. 488.

Mycalesis Mineus, Butler, Catal. Satyr. B. M. p. 135; *id.*, Catal. Fabr. Lep. B. M. p. 34.

Hab.—India (Bombay); Ceylon; Java; Hong-Kong.

Calysisme Polydecta.

Papilio Polydecta, Cramer, Pap. Exot. ii. pl. 144, fig. E, F (1777).

Mycalesis Polydecta, Butler, Ann. Nat. Hist. 1867, p. 402, pl. 9, f. 5, 6 ♀; Catal. Satyr. B. M. p. 135.

Hab.—Borneo. [Tranquebar, Cramer.]

Calysisme Igoleta.

Mycalesis Igoleta, Felder, Wien. Ent. Monats. vii. p. 127 (1863); Butler, Catal. Satyr. B. M. p. 133.

Hab.—Philippines (Luzon).

Calysisme Nautilus.

Mycalesis Nautilus, Butler, Ann. Nat. Hist. 1867, p. 402, pl. 9, f. 7; *id.*, Catal. Satyr. B. M. p. 136.

Hab.—Malacca.

Calysisme Justinella.

Mycalesis Justinella, Butler, Catal. Satyr. B. M. p. 135, pl. 3, fig. 12 (1868).

Hab.—Philippines.

Calysisme Blasius.

Papilio Blasius, Fabricius, Ent. Syst. Suppl. p. 426 (1798).

Mycalesis Blasius, Butler, Proc. Zool. Soc. 1867, p. 720, fig. 4; *id.*, Catal. Satyr. B. M. p. 137; *id.*, Catal. Fabr. Lep. B. M. p. 34.

M. lurida, Butler, Trans. Ent. Soc. Lond. 1879, p. 3, ♂.

Hab.—India (Cachar); Pegu; Ceylon; Singapore; Java; Formosa; Philippines.

Calysisme Samba.

Mycalesis Samba, Moore, Catal. Lep. Mus. E. J. C. i. p. 233 (1857); Butler, Catal. Satyr. B. M. p. 137.

Hab.—India (Calcutta).

Calysisme Lalassis.

Mycalesis Lalassis, Hewitson, Exotic Butt. iii. p. 89, *Myc.* pl. 6, fig. 35 (1864); Journ. Linn. Soc. Zool. viii. p. 147; Butler, Catal. Satyr. B. M. p. 137.

Hab.—Gilolo; Amboyna.

Calysisme Cepheus.

Mycalesis Cepheus, Butler, Ann. Nat. Hist. 1867, p. 402, pl. 9, fig. 3, 4 ♀; *id.*, Catal. Satyr. B. M. p. 134.

Hab.—Penang.

Calysisme lugens.

Mycalesis lugens, Butler, Proc. Zool. Soc. 1875, p. 612.

Hab.—New Hebrides.

Calysisme Zia.

Mycalesis Zia, Butler, 'Entomologist' iv. p. 347 (1869).

Hab.—Australia (Queensland).

Calysisme Perseus.

Papilio Perseus, Fabricius, Syst. Ent. p. 488 (1775), ♀; Donovan, Ins. New Holl. pl. 26, f. 3.

Mycalesis Perseus, Butler, Proc. Zool. Soc. 1867, p. 718, fig. 2; Catal. Satyr. B. M. p. 133; Catal. Fabr. Lep. B. M. p. 33.

Papilio otea, Cramer, Pap. Exot. iv. pl. 314, fig. A B (1780), ♀.

P. Tabitha, Fabricius, Ent. Syst. iii. i. p. 243 (1793).

Satyrus Zopyrus, Kollar, in Hugel's Reise Kaschmir, iv. p. 450 (1844).

Hab.—India (Bombay; Deyra Doon; Simla; Oudh; Calcutta).

Calysisme indistans, n. sp.

Differs from *C. Perseus* in having a more distinctly-pointed apex and straighter exterior margin, resembling in these respects *C. visala*; the colour is uniformly much paler above; the under side is especially paler, the transverse discal pale-bordered line more even, and that on the fore wing is slightly curved inward, the marginal spots are less prominent, or only visible as white spaces, and sometimes are quite obsolete.

Expanse, ♂ $1\frac{6}{8}$ ♀ 2 in.

Hab.—Calcutta. In coll. F. Moore.

Calysisme Ostrea.

Mycalesis Ostrea, Hübner, Exot. Schmett. Zuträge, fig. 79, 80, ♂; Moore, P. Z. S. 1874, p. 566 (note) nec Cramer.

M. Ostrea, Westwood, Gen. Diurn. Lep. p. 394 (1851).

Hab.—China; Hainan (Swinhoe).

Calysisme Visala.

Mycalesis Visala, Moore, Catal. Lep. Mus. E. J. C. i. p. 230 (1857); Butler, Catal. Satyr. B. M. p. 133.

Hab.—India (Sikkim).

N. g. JATANA.

Male.—Wings short; fore wing narrow, very much arched at base, apex convex; exterior margin oblique, straight. Hind wing somewhat quadrate; costa very convex in the middle, apex slightly angular; exterior margin oblique, slightly convex, anal angle prolonged; abdominal margin long; a tuft of fine hair at base of subcostal; cell short and broad at the end; subcostal straight at its base, first branch emitted near end of the cell, second straight at its base; upper disco-cellular straight, lower slightly curved and oblique; two upper median branches from end of the cell. Antennæ with a stout club; palpi pilose to the tip. Eyes slightly hairy.

Jatana Mynois.

Mycalesis Mynois, Hewitson, Exotic Butt. iii.; *Myc.* pl. 5, fig. 29, 30 (1864); Butler, Catal. Satyr. B. M. p. 144.

Hab.—Timor.

GENUS CULAPA.

Culapa, Moore, P. Z. S. 1878, p. 825.

Fore wing longer than in *Calysisme*; costa very slightly arched, apex produced, exterior margin very oblique and slightly convex below the apex; cell longer and narrower; third subcostal branch nearer the fourth. Hind wing somewhat quadrate, apical angle slightly acute, exterior margin convex hindward and truncated at anal angle, abdominal margin long; cell triangular; disco-cellulars very oblique; middle median branch emitted at some distance before lower end of the cell. Male with a tuft of fine hair exerted from base of cell and covering a small glandular patch above base of first subcostal branch. Antennæ with a well-formed, slightly-stout club. Palpi compactly clothed with shorter hair. Eyes hairy.

Culapa Mnasicles.

Mycalesis Mnasicles, Hewitson, Exotic Butt. iii.; *Myc.* pl. 5, fig. 33, 34 (1864); Butler, Catal. Satyr. B. M. p. 141.

Culapa Mnasicles, Moore, Proc. Zool. Soc. 1878, p. 825.

Hab.—Sumatra; Burmah (Tenasserim; Moulmain).

N. g. PACHAMA.

Wings large and broad, but comparatively shorter than in *Samanta*. Fore wing with costa arched in the middle, apex rounded, exterior margin slightly oblique and convex, cilia prominent. Hind wing somewhat bluntly conical, exterior margin slightly arched, apex somewhat angled, exterior margin very oblique and scarcely convex; cilia prominent; first subcostal emitted at some distance before end of the cell; cell longer, end much pointed; disco-cellulars very oblique, radial from a slight angle near subcostal. Male with a subcostal tuft and glandular patch, as in *Samanta*. Palpi slender at tip. Eyes hairy. Antennal club gradually formed.

Pachama Mestra.

Mycalesis Mestra, Hewitson, Exotic Butt. iii. p. 79; *Myc.* pl. 1, fig. 2 (1862); Butler, Catal. Satyr. B. M. p. 137.

Hab.—E. Bengal (Khasia Hills).

N. g. INDALASA.

Male.—Fore wing somewhat narrow; costa arched at base, apex convex; exterior margin oblique, straight; hind wing narrow, conical; anterior margin arched at base, apex slightly produced; exterior margin oblique, slightly convex; cell long, fusiform; a tuft of fine hair at base of subcostal; first subcostal branch half way between the costal and second; disco-cellulars very oblique; two upper median branches from end of the cell. Antennæ with a moderately formed club. Palpi pointed and hairy to tip. Eyes slightly hairy.

Indalasa Moorei.

Mycalesis Moorei, Felder, Reise Novara, Lep. iii. p. 502, pl. 67, fig. 9 (1867).

Hab.—Java.

N. g. SAMANTA.

Fore wing arched towards the apex, angle convex. Hind wing conical; exterior margin waved; first and second subcostal branches emitted together from end of the cell, base of the first straight; disco-cellulars straight and very slightly oblique; cell short; male with a small tuft covering a glandular patch of scales above base of subcostal branch. Eyes hairy.

Type. *S. Malsara*.

Samanta Malsara.

Mycalesis Malsara, Moore, Catal. Lep. Mus. E. I. C. i. p. 231 (1857); Hewitson, Exotic Butt. iii. p. 80; *Myc.* pl. 1. figs. 5, 6.

Hab.—N. E. India (Darjiling; Cherra).

Samanta rudis, n. sp.

Male.—Upper side similar to *S. Malsara*, the pale band on the fore wing being narrower. Under side ochreous-brown, with darker brown strigæ, somewhat greyish brown on external borders; both wings with an ochreous-yellow transverse discal band, the inner margin of which is well defined, the outer suffused; a sub-marginal series of minute indistinct white-speckled spots,

the two subanal being ringed with black; an indistinct ochreous-speckled pale streak crossing middle of the cell on both wings.

Expanse, $1\frac{3}{4}$ inch.

Hab.—N. India. In coll. F. Moore.

Samanta Lepcha, n. sp.

Male.—Upper side brown; fore wing with an indistinct pale transverse discal narrow line, and two or three submarginal indistinct blind ocelli, the upper two minute; hind wing with one or two similar subanal ocelli. Under side brighter coloured, greyish externally, covered with numerous darker brown strigæ; both wings with a prominent very narrow ochreous-yellow transverse discal band, and a submarginal series of indistinct minute black and white speckled spots; a pale speckled indistinct streak crossing both cells.

Expanse, 2 inches.

Hab.—Nepal (General Ramsay.) In coll. F. Moore.

Samanta Heri.

Mycalesis Heri, Moore, Catal. Lep. Mus. E. I. C. i. p. 233 (1857), ♀; Butler, Catal. Satyr. B. M. p. 134.

Hab.—N. E. India.

Samanta Nicotia.

Mycalesis Nicotia, Hewitson, Gen. Diurn. Lep. p. 394, pl. 66, f. 4 (1851), ♀; *id.*, Exotic Butt. iii. *Myc.* pl. 1, f. 1, ♂; Butler, Catal. Satyr. B. M. p. 139.

Hab.—N. E. India (Darjiling).

N. g. TELINGA.

Fore wing comparatively long and narrow, apex slightly convex, exterior margin oblique, nearly straight, posterior margin convex near the base; cell long. Hind wing broad, somewhat quadrate; costa arched at base and thence straight to apex; exterior margin waved, convexly angular in the middle, anal angle convex; cell broad, triangular; disco-cellulars very long and oblique; second subcostal emitted just before end of the cell;

upper and middle median branches from lower end of the cell. Male with a small subcostal tuft and glandular patch. Palpi stout at tip. Eyes hairy. Club of antenna well formed.

Telinga Adolphei.

Satyrus Adolphei, Guérin, Delessert's Souv. Voy. Inde, p. 76 (1843).

Mycalesis Adolphei, Westwood and Hewits. Gen. D. Lep. p. 394; Butler, Catal. Satyr. B. M. p. 139.

M. Onatas, Hewitson, Exotic Butt. iii. p. 90; *Myc.* pl. 6, fig. 40 (1864).

Hab.—South India (Nilgiris).

N. g. KABANDA.

Wings short, broad. Fore wing very much arched from the base, apex and exterior margin slightly convex and even; cell short and broad. Hind wing bluntly conical, short; exterior margin almost even, anal angle very convex; costal vein quite short and nearly straight; first subcostal branch emitted immediately before end of the cell; disco-cellulars almost erect; cell very short; middle median branch emitted before lower end of the cell; male with a slight subcostal tuft and glandular patch of scales; median branches dilated and grooved at their base on the upper side. Antennæ short, slender. Eyes hairy. Palpi slender at tip.

Type. *K. Malsarida*.

Kabanda Malsarida.

Mycalesis Malsarida, Butler, Catal. Satyr. B. M. p. 134, pl. 3, fig. 14 (1868).

Hab.—E. Bengal (Khasias; Cherra Punji).

Kabanda Khasiana.

Mycalesis Khasiana, Moore, Proc. Zool. Soc. 1874, p. 566.

Hab.—E. Bengal (Khasia Hills).

N. g. MARTANDA.

Wings short. Fore wing somewhat triangular, apex slightly pointed, exterior margin slightly oblique, nearly straight and even. Hind wing bluntly oval; costa very broadly convex at the base; exterior margin convex, slightly waved; cell long, very pointed at lower end; first and second subcostal branches from end of the cell; disco-cellulars very oblique; male with a double subcostal tuft covering the glandular patch of scales. Antennæ short, club stout. Eyes hairy. Palpi slender at tip.

Type. *M. Janardana*.

Martanda Janardana.

Mycalesis Janardana, Moore, Catal. Lep. Mus. E. I. C. i. p. 234 (1857); Butler, Catal. Satyr. B. M. p. 136.

Hab.—Java; Sumatra; Malacca.

Martanda Megamede.

Mycalesis Megamede, Hewitson, Exotic Butt. iii. p. 84; *Myc.* pl. 3, fig. 14 (1862); Butler, Catal. Satyr. B. M. p. 136 (Journ. Linn. Soc. Zool. viii. p. 147).

Hab.—Macassar; Ternate; Gilolo; Batchian.

Martanda Sangaica.

Mycalesis Sangaica, Butler, Ann. Nat. Hist. 1877, p. 95.

Hab.—N. China (Shanghai).

N. g. NISSANGA.

Wings short. Fore wing slightly arched at the base, exterior margin long, slightly convex, and nearly erect; second subcostal emitted at end of the cell. Hind wing bluntly conical; costa broadly convex at the base and thence oblique to the apex; exterior margin oblique; cell short, quadrate, broad at its end; subcostal not swollen, its first branch emitted immediately before end of the cell; disco-cellulars erect, equal in length; two upper median branches emitted at some distance beyond the cell; male with a tuft of fine hair covering a glandular patch at base of subcostal branches. Antennæ gradually thickened to tip. Eyes hairy. Apical joint of palpi long and slender.

Type. *N. Patnia*, Moore.

Nissanga Patnia.

Mycalesis Patnia, Moore, Catal. Lep. Mus. E. J. C. i. p. 232, ♂ (1857); Butler, Catal. Satyr. B. M. p. 146.

Hab.—Ceylon.

Nissanga Junonia.

Mycalesis Junonia, Butler, Catal. Satyr. B. M. p. 146, pl. 3, fig. 4 (1868).

Hab.—S. India (Nilgiris).

N. g. MYDOSAMA.

Dasyomma,* Felder, Wien. Ent. Monats. iv. p. 401 (1860).

Wings short. Fore wing regularly arched along the costa; exterior margin slightly convex and oblique; second subcostal branch emitted immediately before end of the cell; disco-cellulars very slightly concave. Hind wing bluntly conical; costa convex; exterior margin and angles convex, slightly waved; cell broadly triangular; first subcostal branch emitted close to end of the cell, and in the male swollen at its base; disco-cellulars oblique, slightly concave; two upper median branches emitted from end of the cell. Male with a tuft of fine hair covering a glandular patch at base of first subcostal branch. Eyes hairy. Antennal club moderate. Palpi less laxly clothed beneath than in *Nissanga*, and the terminal joint shorter.

Type. *M. fuscum*.

Mydosana fuscum.

Dasyomma fuscum, Felder, Wien. Ent. Monats. iv. p. 401 (1860).

Mycalesis fuscum, Butler, Catal. Satyr. B. M. p. 144.

M. Diniche, Hewitson, Exotic Butt. iii. p. 85, *Myc.* pl. 4, fig. 23 (1862), ♂; *id.*, Journ. Linn. Soc. Zool. viii. p. 146.

M. Margites, Hewitson, *l.c.*, v. *Myc.* pl. 9, f. 59 (1874), ♀.

Hab.—Malay Peninsula; Singapore; Sumatra; Borneo.

* Previously used (1840) in Diptera.

Mydosama Anapita.

Mycalesis Anapita, Moore, Catal. Lep. Mus. E. I. C. i. p. 232 (1857); Hewitson, Journ. Linn. Soc. Zool. viii. p. 146; Butler, Catal. Satyr. B. M. p. 146.

Hab.—Borneo; Sumatra.

Mydosama Remulia.

Papilio Remulia, Cramer, Pap. Exot. iii. pl. 237, f. F G (1779).

Mycalesis Remulia, Hewitson, Journ. Linn. Soc. Zool. viii. p. 145; Butler, Catal. Satyr. B. M. p. 143.

Hab.—Java; Bouru; Amboyna; Ceram; Mysol; Waigiou; Salwatty; Gilolo; Ternate; Batchian; Morty.

Mydosama Terminus.

Papilio Terminus, Fabricius, Syst. Ent. p. 488 (1775); Donovan, Ins. New Holl. pl. 28, fig. 4.

Mycalesis Terminus, Butler, Proc. Zool. Soc. 1867, p. 720, fig. 3, 3A; Catal. Satyr. B. M. p. 143; Catal. Fabr. Lep. B. M. p. 35.

Hab.—Australia (New Holland).

Mydosama flagrans.

Mycalesis flagrans, Butler, Ann. Nat. Hist. 1876, p. 243.

Hab.—New Guinea.

Mydosama Cacodemon.

Mycalesis Cacodemon, Kirsch, Mitth. Mus. Dresden, i. p. 118, pl. 6, f. 5, 5A (1877).

Hab.—New Guinea.

Mydosama Messene.

Mycalesis Messene, Hewitson, Exotic Butt. iii. p. 81, *Myc.* pl. 2, fig. 8, 9 (1862); Journ. Linn. Soc. Zool. viii. p. 145; Butler, Catal. Satyr. B. M. p. 142.

Hab.—Ternate; Batchian; Gilolo; Morty.

Mydosama Mehadeva.

Satyrus Mehadeva, Boisduval, Voy. Astrolabe, Lep. p. 151 (1832).

Mycalesis Mehadeva, Hewitson, Journ. Linn. Soc. Zool. viii. p. 145; Butler, Catal. Satyr. B. M. p. 143.

Hab.—Dorey.

Mydosama Asophis.

Mycalesis Asophis, Hewitson, Exotic Butt. iii. p. 85, *Myc.* pl. 4, fig. 20, 21 (1862); Journ. Linn. Soc. Zool. viii. p. 145; Butler, Catal. Satyr. B. M. p. 144.

Hab.—New Guinea; Waigiou; Mysol; Ternate.

Mydosama Æthiops.

Mycalesis Æthiops, Butler, Catal. Satyr. B. M. p. 141, pl. 3, fig. 11 (1868).

Hab.—New Guinea.

Mydosama Bazochi.

Satyrus Bazochii, Guérin, Voy. Coquille, Atlas, Ins. pl. 14 A, f. 3, (1829).

Mycalesis Bazochii, Kirby, Catal. D. Lep. 91.

Satyrus Cyamites, Boisduval, Voy. Astrolabe, Lep. p. 152 (1832).

Mycalesis Cyamites, Hewitson, Journ. Linn. Soc. Zool. viii. p. 145; Butler, Catal. Satyr. B. M. p. 142.

Hab.—Dorey.

Mydosama Ita.

Mycalesis Ita, Felder, Wien. Ent. Monats. vii. p. 125 (1863); Reise Novara Lep. iii. pl. 68, fig. 8, 9; Butler, Catal. Satyr. B. M. p. 145.

Hab.—Philippines (Luzon).

Mydosama Felderi.

Mycalesis Felderi, Butler, Catal. Satyr. B. M. p. 144, pl. 3, fig. 5 (1868).

Hab.—Philippines.

Mydosama Itys.

Mycalesis Itys, Felder, Reise Novara Lep. iii. p. 503; Butler, Catal. Satyr. B. M. p. 145.

Hab.—Celebes.

Mydosama Sirius.

Papilio Sirius, Fabricius, Syst. Ent. p. 488 (1775);
Donovan, Ins. New Holl. pl. 28, fig. 3.

Mycalesis Sirius, Butler, P. Z. S. 1867, p. 720, fig. 1;
Id. Catal. Satyr. B. M. p. 144; *Id.* Catal. Fabr.
Lep. B. M. p. 35.

Hab.—Australia (New Holland).

Mydosama Zachæus.

Papilio Zachæus, Fabricius, Ent. Syst. iii. 1, p. 217
(1793).

Hab.—Australia.

Mydosama Manipa.

Satyrus Manipa, Boisduval, Voy. Astrolabe, Lep. p. 150
(1832).

Mycalesis Manipa, Hewitson, Journ. Linn. Soc. Zool.
viii. p. 146.

Mycalesis Daidis, Hewitson, Exotic Butt. iii. p. 85, *Myc.*
pl. 4, fig. 22 (1862).

Hab.—Bouru; Amboyna; Ceram.

Mydosama Shiva.

Satyrus Shiva, Boisduval, Voy. Astrolabe, Lep. p. 149
(1832).

Mycalesis Shiva, Butler, Catal. Satyr. B. M. p. 143.

Hab.—New Guinea (Dorey).

Mydosama Phidon.

Mycalesis Phidon, Hewitson, Exotic Butt. iii. p. 84, *Myc.*
pl. 3, fig. 16 (1862); Journ. Linn. Soc. Zool. viii.
p. 146; Butler, Catal. Satyr. B. M. p. 141.

Hab.—Aru.

Mydosama Cæsonia.

Mycalesis Cæsonia, Wallengren, Wien. Ent. Monats.
1860, p. 36.

Hab.—Manilla.

N. g. NEBDARA.

Male. Wings short, broad; fore wing with the costa
arched, apex slightly convex; exterior margin oblique,
nearly straight; hind wing with the costa arched at

the base; exterior margin convex hindward, waved; abdominal margin long; cell long; subcostal vein slightly swollen before emitting the first branch, the first branch emitted before upper half length of the cell; disco-cellulars long, very oblique; middle median branch emitted before lower end of the cell; a tuft of fine hair at base of subcostal. Antennæ with a gradually formed club. Third joint of palpi long, slender. Eyes hairy.

Type. *N. Tagala*.

Nebdara Tagala.

Mycalesis Tagala, Felder, Wien. Ent. Monats. vii. p. 126 (1863); Reise Novara, Lep. iii. pl. 67, fig. 7, 8; Butler, Catal. Satyr. B. M. p. 143.

Hab.—Philippines (Bourias Loeban, Mindanao).

Nebdara Bisaya.

Mycalesis Bisaya, Felder, Wien. Ent. Monats. vii. p. 127 (1863); Butler, Catal. Satyr. B. M. p. 143.

M. Semperi, Butler, Catal. Satyr. B. M. p. 137, pl. 3, fig. 7 (1868) ♂.

M. Marcotis, Hewitson, Exotic Butt. iii. p. *Myc.* pl. 9, fig. 58 ♀ (1874).

Hab.—Philippines (Bourias, Loeban, Luzon).

Nebdara Amæna.

Mycalesis Amæna, Druce, Proc. Zool. Soc. 1873, p. 339, pl. 32, fig. 1.

Hab.—Borneo.

N. g. SEVANDA.

Fore wing more lengthened than in *Mydosama*; apex somewhat produced, exterior margin very oblique; disco-cellulars deeply concave. Hind wing broad, bluntly oval; cell very broad; first subcostal branch emitted at some distance before end of the cell; disco-cellulars slightly oblique; upper median branch emitted from end of the cell, middle branch immediately before the end; male with the first subcostal branch swollen beneath at its base, with a tuft of fine hairs above covering the glandular patch. Antennæ and palpi stouter. Eyes hairy.

Type. *S. Duponcheli*.

Sevanda Duponcheli.

Satyrus Duponcheli, Guérin, Voy. Coquille, pl. 17, fig. 3 (1829), ♂.

S. Dorycus, Boisduval, Voy. Astrolabe, Lep. p. 152 (1832).

Mycalesis Dorycus, Hewitson, Exotic Butt. iii. p. 81, *Myc.* pl. 2, figs. 7, 10; Journ. Linn. Soc. Zool. viii. p. 145; Butler, Catal. Satyr. B. M. p. 141.

M. Getulia, Felder, Wien. Ent. Monats. iii. p. 404 (1859), ♂.

Hab.—Dorey; Aru.

Sevanda Mucia.

Mycalesis Mucia, Hewitson, Exotic Butt. iii. p. 82,

Myc. pl. 2, figs. 11, 12 (1862); Butler, Catal. Satyr. B. M. p. 142; Kirsch, Mitth. Zool. Mus. Dresden, i. p. 118.

Hab.—Aru.

N. g. LOHORA.

Wings broader than in *Sevandra*. Fore wing convex at the base and apex, exterior margin convex and slightly oblique; second subcostal branch emitted at some distance beyond end of the cell; lower disco-cellular extremely concave. Hind wing broadly oval; costa nearly straight to apex; exterior margin convex; first subcostal branch emitted at half length of the cell; disco-cellulars obliquely concave; two upper median branches from end of the cell. Male with a tuft of fine hairs covering a small glandular patch at base of subcostal branch. Antennæ with a gradually thickened club. Palpi compactly clothed to the tip beneath. Eyes hairy.

Type. *L. Dexamena*.

Lohora Dexamena.

Mycalesis Dexamenus, Hewitson, Exotic Butt. iii. p. 83,

Myc. pl. 3, figs. 17, 18 (1862); Journ. Linn. Soc. Zool. viii. p. 146; Butler, Catal. Satyr. B. M. p. 142.

Hab.—Tondano.

Lohora Dinon.

Mycalesis Dinon, Hewitson, Exotic Butt. iii. p. 88, *Myc.*

pl. 5, fig. 31 (1864); Journ. Linn. Soc. Zool. viii. p. 146; Butler, Catal. Satyr. B. M. p. 142.

M. Dexamenus (part), Hewits., Exotic Butt. iii., *Myc.* pl. 3, fig. 19.

Hab.—Macassar.

Lohora Deianira.

Mycalesis Deianira, Hewitson, Exotic Butt. iii. p. 83, *Myc.* pl. 3, fig. 13 (1862); Butler, Catal. Satyr. B. M. p. 142.

M. Dora, Hewitson, Exotic Butt. iii. p. 88 (1864); Journ. Linn. Soc. Zool. viii. p. 146.

Hab.—Tondano.

N. g. NASAPA.

Male.—Fore wing slightly arched at the base and before the apex; exterior margin oblique, slightly convex below the apex; hind wing oval; costa arched from the base; exterior margin and anal angle convex; a tuft of fine hair covering a subcostal patch; cell short; first and second subcostal branches at equal distances from the costal; upper disco-cellular oblique, slightly concave, lower nearly erect; two upper median branches from end of the cell. Antennæ gradually clavate; palpi laxly pilose beneath, tip rather short, pointed. Eyes hairy.

Nasapa Aramis.

Mycalesis Aramis, Hewitson, Exotic Butt. iii. p. 91, *Myc.* pl. 7, fig. 43 (1866); Butler, Catal. Satyr. B. M. p. 129.

Hab.—Philippines.

Genus MYCALESIS.

Mycalesis, Hübner, Verz. bek. Schmett. p. 55 (1816).

Fore wing much arched at the base, apex slightly acute; exterior margin convex, oblique; hind wing broadly conical; costa convex in middle, apex and exterior margin convex; anal angle produced; abdominal margin long; cell narrow: first and second subcostal branches emitted together from a foot-stalk above middle of the cell, the foot-stalk swollen; a tuft of fine hair covering a glandular patch at swollen base of subcostal branches; disco-cellulars very long and oblique; two upper median branches from end of the cell. Antennal club well formed; palpi stout, pilose. Eyes naked.

Type. *M. Evadne*, Cramer.

Hab.—W. Africa.

Group III. *With two glandular pouches and tufts on hind wing.*

N. g. LOESA.

Male.—Fore wing somewhat elongated and narrow; costa arched at the base and apex; exterior margin oblique, slightly convex; second subcostal branch emitted at some distance beyond the cell; hind wing bluntly ovate; costa arched at base; apex, exterior margin and anal angle convex; a tuft of fine hair at base of subcostal, and a slender tuft covering a groove on middle of submedian vein; cell short, broad in the middle; subcostal concave at its base, first branch emitted close to end of the cell, second concave at its base; discocellulars long, oblique, straight; two upper median branches from end of the cell. Antennæ with a well-formed terminal club; palpi pointed at tip. Eyes hairy.

Loesa Oroatis.

Mycalesis Oroatis, Hewitson, *Exotic Butt.* iii. p.

Myc. pl. 6, figs. 38, 39 (1864); Butler, *Catal. Satyr.*
B. M. p. 138.

Hab.—Java.

Species not examined, and of which the genus is therefore undeterminable:—

Mycalesis Nala, Felder, *Wien. Ent. Monats.* iii. p. 403
(1859).

Hab.—Java.

Mycalesis Pandæa, Hopff, *Stett. Ent. Zeit.*, 1874, p. 39.

Hab.—Celebes.



Moore, F. 1880. "XIII. On the Asiatic Lepidoptera referred to the genus *Mycalesis*; with descriptions of new genera and species." *Transactions of the Entomological Society of London* 28, 155–178.

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