

Gen. *ACHÆA*, *Hübner*.

412. *ACHÆA ATRIVITTA*, n. s. *Fœm.* Fusca, subtus testaceo-cinerea, alis anticis chalybeo-ferrugineis, linea atra recta obliqua, lineis tribus nigris deviis, lituris nonnullis testaceis, alis posticis macula discali alba, fimbria albo binotata.

Female. Brown, testaceous-cinereous beneath. Third joint of the palpi pale with a blackish band, much shorter than the 2nd, and less than half its breadth. Fore wings ferruginous with a chalybeous bloom, and with a straight somewhat irregular deep black line which extends from the base to a little in front of the interior angle, some irregular testaceous marks here and there, and three irregular black lines; marginal festoon black; under side with a hindward dark brown stripe and two dark brown bands. Hind wings with a white discal spot; fringe with two white marks; under side with a brown discal lunule, with a zigzag brown line, and with two exterior partly connected bands. Length of the body 9 lines; of the wings 22 lines.

413. *ACHÆA SEMIPALLIDA*, n. s. *Mas.* Fusca, alis anticis costa margineque exteriore albido-cervinis, margine interiore fuscescente, vitta obliqua informi nigra, striga apicali lata fusca nigro marginata, lineis duabus indistinctis transversis, orbiculari et reniformi atris, alis posticis albo trimaculatis, fimbria albo binotata.

Male. Brown; under side pale cinereous with a testaceous tinge. Abdomen paler than the thorax, and with a cinereous tinge. Wings beneath with markings much like those of *A. atrivitta*. Fore wings whitish, fawn-colour along the costa and about the exterior border, brownish along the interior border, with a black irregular stripe which extends from the base to a little in front of the interior angle, and with a broad brown irregularly black-bordered streak along the apical part of the costa; two irregular indistinct transverse lines; orbicular and reniform marks deep black, the former punctiform, the latter of the usual shape. Hind wings with three white spots, and with two white marks on the fringe. Length of the body 9 lines; of the wings 22 lines.

Nearly allied to *A. signivitta*.

414. *ACHÆA PURPUREILINEA*, n. s. *Fœm.* Cervina, alis anticis strigis transversis lineisque tribus fuscis, linea 3^a duplicata valde arcuata, linea submarginali undulata ex parte purpurea, reniformi pallida albo marginata, annulo posteriore oblongo fusco, alis posticis albido trimaculatis, fimbria albido binotata.

Female. Fawn-colour. Abdomen cinereous brown. Wings beneath much like those of the two preceding species. Fore wings with numerous transverse brown streaks which are partly confluent; two interior brown lines and one exterior line which is double and much curved; submarginal line undulating, purple in front and hindward; submarginal points black; interior border cinereous, tinged with purple; orbicular mark punctiform; reniform pale, white-bordered, trans-

versely elliptical, having behind it a longitudinally oblong brown ringlet. Hind wings brown, with three whitish spots, and with two whitish marks on the fringe. Length of the body 10 lines; of the wings 22 lines.

Nearly allied to *A. cyllota*.

415. *ACHÆA PULCHRIVENA*, n. s. *Fœm.* Fusca, abdominis segmentis albido marginatis, alis anticis ferrugineis, lituris nebulisque nigris, linea 1^a basali, 2^a 3^aque duplicatis, linea submarginali alba denticulata, fimbria albido uninotata, reniformi ex parte albido marginata, venis chalybeis, alis posticis albido binotatis, fimbria albo uninotata.

Female. Brown, pale beneath. Abdominal segments with whitish fore borders. Wings beneath much like those of *A. atrivitta*, but with the brown hue more prevalent. Fore wings ferruginous, partly shaded with black, with black markings; 1st line basal; interior and exterior lines double, the latter much curved outward; submarginal line white, denticulated; fringe with a whitish mark in the middle; orbicular mark punctiform; reniform partly whitish-bordered; veins mostly chalybeous. Hind wings with two whitish discal marks, and with a white mark on the fringe. Length of the body 8 lines; of the wings 18 lines.

Gen. *OPHIUSA*, *Ochs.*

416. *Ophiusa fulvotænia*, *Guén. Noct.* iii. 272, 1710.

Inhabits also Hindostan, Ceylon, Sumatra, and Java.

417. *Ophiusa Joviana*, *Cram. Pap. Exot.* iv. 237, pl. 399. f. B (*Phalæna Noctua*).

Inhabits also Hindostan, where it attains a larger size.

Gen. *GRAMMODES*, *Guén.*

418. *Grammodes Mygdon*, *Cram. Pap. Exot.* ii. 94, pl. 156. f. G (*Phalæna Noctua*).

Inhabits also Hindostan, Ceylon, and Java.

Gen. *CRITHOTE*, n. g.

Mas. *Corpus* sat gracile. *Proboscis* conspicua. *Palpi* oblique ascendentes, verticem non superantes; articulus 3^{us} minimus. *Antennæ* subpectinatae. *Abdomen* longum, alas posticas paullo superans. *Pedes* longi, graciles, pilis longissimis dense vestiti. *Alæ* anticæ acutæ, costa recta, margine exteriori recto sat obliquo; posticæ costa basi dilatata apice obliqua, margine interiori pilis longissimis fimbriato.

Male. Body rather slender. Frontal tuft prominent. Proboscis moderately long, Palpi obliquely ascending, not rising higher than the vertex; 3rd joint obtuse, not more than one-eighth of the length of the 2nd. Antennæ slightly pectinated. Abdomen long, extending a little beyond the hind wings. Legs long, slender; posterior femora

and tibiæ densely clothed with extremely long hairs; spurs long. Wings moderately broad. Fore wings acute; costa straight; exterior border straight, rather oblique. Hind wings with the costa dilated at the base, oblique towards the tip; interior border fringed with very long hairs.

This genus has a very peculiar structure, and does not associate well with any of the described families of the *Noctuities*.

419. CRITHOTE HORRIDIPES, n. s. *Mas.* Obscure fusca, capite thoraceque antico nigricantibus, abdomine cinereo, alis anticis basi fusciscenti-cinereis.

Male. Dark brown. Vertex and fore part of the thorax blackish. Abdomen cinereous. Legs with blackish hairs. Fore wings obliquely brownish cinereous at the base. Hind wings a little paler than the fore wings. Length of the body $7\frac{1}{2}$ lines; of the wings 16 lines.

Fam. REMIGIIDÆ, Guén.

Gen. REMIGIA, Guén.

420. *Remigia frugalis*, *Fabr. Ent. Syst.* iii. 2. 138 (Noctua).

Inhabits also West Africa, Hindostan, Ceylon, and Java.

421. *Remigia Archesia*, *Cram. Pap. Exot.* iii. 145, pl. 273. f. F, G (Phalæna Noctua).

Inhabits also Sierra Leone, Hindostan, China, Ceylon, and Java.

422. REMIGIA INTRACTA, n. s. *Mas.* Cinereo-cervina, abdomine apicem versus compresso, tibiis dense pilosis, alis lineis undulatis subobscurioribus fere obsoletis, fascia cinerea lata indistincta subundulata.

Male. Cinereous fawn-colour, the former hue more prevalent beneath. Palpi ascending much higher than the vertex; 3rd joint linear, much shorter than the 2nd. Antennæ minutely setulose. Abdomen towards the tip and apical tuft compressed. Tibiæ densely pilose; hairs of the fore tibiæ much shorter than those of the posterior tibiæ. Wings with undulating almost obsolete lines, which are very little darker than the ground-hue; a broad, cinereous, indistinct, slightly undulating band; marginal points black. Length of the body 7 lines; of the wings 16 lines.

423. REMIGIA ZETA, n. s. *Mas.* Cervina, subtus pallide cinerea, femoribus tibiisque subfimbriatis, alis lineis duabus nigricantibus diffusis indistinctis albido punctatis, alis anticis striga discali nigra transversa undulata.

Male. Fawn-colour, pale cinereous beneath. Vertex reddish. Palpi dark cinereous, ascending higher than the vertex; 3rd joint linear, obtuse at the tip, much shorter than the 2nd. Antennæ setulose and pubescent. Femora and tibiæ slightly fringed. Wings ample; interior and exterior lines blackish, diffuse, indistinct, accompanied by

whitish points almost obsolete in the hind wings; marginal points black. Fore wings with an undulating transverse black discal streak; three white costal subapical points. Length of the body 8 lines; of the wings 17 lines.

424. *REMIGIA? BENDIoides*, n. s. *Mas.* Pallide cinerea, abdomine lineari fasciis fusciscentibus subtus floccoso, pedibus validis, alis lineis quinque fuscis obliquis subrectis, macula discali fasciisque duabus subtus nigricantibus, alis anticis litura apicali strigaeque postica interrupta nigricantibus, costa lineisque duabus interioribus testaceis.

Male. Pale cinereous, darker beneath. Head testaceous. Palpi hardly curved, rising a little higher than the vertex; 3rd joint lanceolate, pilose, about half the length of the 2nd. Antennæ setulose, pubescent. Abdomen linear, with brownish bands; under side floccose. Legs stout, pilose. Wings ample, with five oblique almost straight brown lines; marginal points black; under side with a blackish discal spot and two blackish bands. Fore wings very acute, with a blackish apical mark, and with a short blackish interrupted streak near the interior angle; costa and two interior lines testaceous; two black points in a line on the disk. Length of the body 7 lines; of the wings 16 lines.

Fam. AMPHIGONIDÆ, Guén.

Gen. AMPHIGONIA, Guén.

425. *AMPHIGONIA COSTISTRIGA*. Obscure rufescenti fusca, pectore albo, tibiis pilis longissimis dense fimbriatis, alis lineis subobscurioribus angulatis valde indistinctis, alis anticis linea recta obliqua obscure fusca, costa luteo-strigata, reniformi ochracea albo tripunctata.

Dark reddish brown, cinereous brown beneath. Pectus white. Tibiæ thickly fringed with very long hairs. Wings ample; exterior border distinctly angular in the middle; lines angular, very indistinct, a little darker than the ground-hue. Fore wings acute, with a straight dark brown line which extends from near the tip of the costa to the interior angle; costa with luteous streaks; reniform mark ochraceous, with three white points. Length of the body 7? lines; of the wings 20 lines.

Fam. THERMESIDÆ, Guén.

Gen. SYMPIS, Guén.

426. *Sympis rufibasis*, Guén. *Noct.* iii. 344, 1809.

Inhabits also Hindostan, Sumatra, and Java.

Gen. THERMESIA, Hübn.

427. *Thermesia finipalpis*, Walk. *Cat. Lep.* 3rd ser. 1574.

Inhabits also Ceylon.

428. *THERMESIA ANTECEDENS*, n. s. Læte ochracea, alis luteo variis

nigro subconspersis, linea media nigra recta, lineis aliis nigricantibus angulosis indistinctis, alis anticis fuscescenti-cinereo nebulosis, orbiculari e puncto nigro.

Bright ochraceous, dull pale luteous beneath. Third joint of the palpi lanceolate, hardly one-third of the length of the 2nd. Wings mottled with luteous, and slightly speckled with black; middle line black, straight, oblique; the other lines blackish, zigzag, indistinct; exterior line with black points; submarginal points black. Fore wings partly shaded with brownish cinereous; orbicular mark represented by a black point. Length of the body 6 lines; of the wings 16 lines. Closely allied to *T. subrutilans*.

429. *THERMESIA METAGONA*, n. s. *Mas.* Ferruginea, pedibus nigro punctatis, alis obscure ochraceis, lineis interiore et exteriore ferrugineis subrectis apud costam retractis, linea submarginali nigra denticulata, alis anticis margine exteriore vix flexo, alis posticis striga lata postica schistacea nigro marginata.

Male. Ferruginous, much paler beneath. Palpi slightly curved, ascending much higher than the vertex; 3rd joint lanceolate, a little shorter than the 2nd. Antennæ setulose. Legs with a few black points. Wings dull dark ochraceous, mostly luteous beneath; interior and exterior lines ferruginous, oblique, nearly straight, retracted towards the costa of the fore wings; submarginal line black, denticulated, distinguished by points in the hind wings, accompanied by white points towards the costa of the fore wings. Fore wings rectangular at the tips; exterior border hardly bent. Hind wings with the exterior line terminating in a broad, slaty, blackish-bordered streak. Length of the body 7 lines; of the wings 16 lines.

430. *THERMESIA DISCONTENTA*, n. s. *Mas.* Ferrugineo-rufa, abdomine alas posticas superante, alis latis cinereo suffusis, lineis ferrugineis undulatis indistinctis, alis anticis subfalcatis, margine exteriore medio subconvexo.

Male. Ferruginous red, with a cinereous tinge beneath. Third joint of the palpi much shorter than the 2nd. Antennæ minutely setulose. Abdomen extending beyond the hind wings. Wings broad, with a cinereous tinge; lines ferruginous, undulating, indistinct. Fore wings subfalcate; exterior border slightly convex in the middle. Length of the body 9 lines; of the wings 18 lines.

431. *THERMESIA NOCTINIX*, n. s. Obscure fusca, tibiis fimbriatis, alis linea exteriore cinerea subdenticulata, linea submarginali subobsoleta, alis anticis apice rectangulatis, linea interiore cinerea denticulata indistincta, orbiculari et reniformi niveis, litura costali alba.

Dark brown, a little paler beneath. Palpi curved, ascending much higher than the vertex; 2nd joint pilose; 3rd lanceolate, very slender, as long as the 2nd. Tibiæ fringed. Wings moderately broad, with a cinereous exterior slightly denticulated line, which is bent towards

the costa of the fore wings, where it terminates in a white mark; submarginal line nearly obsolete. Fore wings rectangular at the tips, with an interior indistinct denticulated cinereous line; orbicular and reniform marks pure white, the former small, the latter large. Length of the body 7 lines; of the wings 18 lines.

432. *THERMESIA POAPHILOIDES*, n. s. *Mas.* *Cervina*, pedibus non pilosis, alis lineis media et exteriore fusciscentibus denticulatis valde indistinctis, linea submarginali pallide cinerea interrupta, alis anticis linea interiore indistincta, orbiculari pallida punctiformi, reniformi e punctis duobus nigris, plaga costali magna nigro-fusca.

Male. Dull fawn-colour, with a cinereous tinge beneath. Palpi slightly curved, ascending above the vertex; 2nd joint pilose; 3rd lanceolate, much shorter than the 2nd. Antennæ minutely setulose. Legs smooth. Wings moderately broad, with the middle and exterior lines brownish, denticulated, very indistinct; submarginal line interrupted, pale cinereous, accompanied by longitudinal black streaks, entire towards the costa of the fore wings, where it borders the large costal subapical blackish-brown patch; marginal points black. Fore wings acute, with an interior very indistinct line; orbicular mark pale, punctiform; reniform distinguished by two transversely placed black points. Length of the body 7 lines; of the wings 18 lines.

433. *THERMESIA*? *CRASSIUSCULA*, n. s. *Fæm.* Pallide ochracea, tibiis subdilatatis subfimbriatis, alis linea recta obliqua ochracea apud costam retracta, linea exteriore indistincta, linea submarginali subobsoleta, alis anticis linea interiore tenui angulosa, margine exteriore vix flexo.

Female. Pale ochraceous, stout. Thorax squamous. Abdomen not extending beyond the hind wings. Legs stout; tibiæ slightly dilated and fringed; spurs long. Wings with a straight oblique ochraceous line which is abruptly retracted towards the costa of the fore wings, and is accompanied on the outer side by an indistinct line which is most apparent in the hind wings; submarginal line almost obsolete. Fore wings rectangular at the tips; interior line slender, zigzag; exterior border hardly bent. Length of the body 4 lines; of the wings 18 lines.

434. *THERMESIA RUFICEPS*, n. s. *Mas.* Cinereo-cervina, subtus rufescens, capite thoraceque antico saturate rufis, alis linea pallida recta obliqua apud costam recurva, linea interiore denticulata minus determinata, puncto discali punctisque submarginalibus nigris, alis anticis acutis subfalcatis, margine exteriore subangulato, punctis tribus discalibus fuscis.

Male. Fawn-colour with a cinereous tinge, reddish beneath. Head and fore part of the thorax deep red. Antennæ minutely setulose. Abdomen not extending beyond the hind wings, with a radiating apical tuft. Wings with a pale, straight, oblique, dark-bordered line which

is recurved towards the costa of the fore wings; interior line like the exterior line, but denticulated and less distinct; discal point and submarginal points black. Fore wings acute, subfalcate; exterior border slightly angular in the middle; discal point accompanied by three brown points. Length of the body $3\frac{1}{2}$ lines; of the wings 9 lines.

435. *THERMESIA NIGRIPALPIS*, n. s. *Fæm.* Rufescenti-cervina, capite nigricante, palpis porrectis fimbriatis, femoribus tibiisque fimbriatis, alis latiusculis, lineis tribus nigricantibus denticulatis albo punctatis, linea submarginali valde interrupta, alis anticis vix acutis.

Female. Reddish fawn-colour. Head and palpi blackish. Palpi porrect, fringed, extending beyond the head; 3rd joint elongate-conical, less than half the length of the 2nd. Abdomen not extending beyond the hind wings. Legs rather slender; femora and tibiæ fringed; hind tibiæ with four very long spurs. Wings rather broad; interior, exterior, and submarginal lines blackish, denticulated, white-pointed, especially diffuse and incomplete in the hind wings; submarginal line very incomplete; marginal points black. Fore wings hardly acute; costa straight; exterior border slightly convex. Length of the body 4 lines; of the wings 10 lines.

436. *THERMESIA PLAGIFERA*, n. s. *Fæm.* Pallide cervina, palpis longis fimbriatis, femoribus tibiisque fimbriatis, alis latis breviusculis, atomis lineisque tribus diffusis denticulatis punctisque submarginalibus roseis, fimbria e punctis roseis bilineata, alis anticis costa nigro punctata, plaga marginali nigricante, alis posticis plaga subtus apicali nigricante.

Female. Pale fawn-colour. Palpi long, fringed, extending far beyond the head; 3rd joint lanceolate, about one-third of the length of the 2nd. Abdomen not extending beyond the hind wings. Legs moderately stout; femora and tibiæ fringed; hind tibiæ with four very long spurs. Wings broad, rather short, rosy-speckled and with three diffuse denticulated lines of the same hue; submarginal points rosy, fringe long, with two rows of rosy-marked points. Fore wings rectangular at the tips, with two blackish white-marked discal points; costa very slightly convex, with black points; exterior border convex; under side with a very large blackish patch along the exterior border hindward. Hind wings with a large blackish apical patch. Length of the body $4\frac{1}{2}$ lines; of the wings 11 lines.

437. *THERMESIA SPARSA*, n. s. *Fæm.* Pallide rosea, capite thoraceque antico obscure ochraceis, alis breviusculis latiusculis nigro subconspersis, linea exteriori fusca obliqua subrecta apud costam retracta, spatio marginali cervino, linea submarginali e lituris elongatis nigricantibus albido punctatis, alis anticis subfalcatis, linea interiori angulosa, margine exteriori angulato.

Female. Pale rosy red. Head and fore part of the thorax dark ochraceous. Palpi not ascending higher than the vertex; 3rd joint very

short. Abdomen not extending beyond the hind wings. Legs smooth. Wings rather short and broad, thinly black-speckled; exterior line brown, oblique, nearly straight, retracted towards the costa of the fore wings; space along the exterior border fawn-colour, which hue is blended with the ground-colour; submarginal line indicated by elongated blackish marks with whitish points; submarginal points black. Fore wings subfalcate; interior line zigzag, a little darker than the ground-hue; a blackish costal spot, accompanied by two black dots; costa straight; exterior border angular in the middle. Length of the body 3 lines; of the wings 8 lines.

Gen. CAPNODES, Guén.

438. *Capnodes maculicosta*, Walk. *Cat. Lep.* 3rd ser. 1608.
Inhabits also Ceylon.

439. *CAPNODES INTRACTATA*, n. s. *Fœm.* Rufescenti-cervina, albido suffusa, capite thoraceque antico ochraceis, pectore, ventre pedibusque posterioribus albis, alis latiusculis, lineis interiore et exteriori fusciscentibus undulatis indistinctis, linea submarginali vix conspicua, alis anticis subfalcatis, costa albo punctata.

Female. Reddish fawn-colour, mostly suffused with a whitish hue. Head and fore part of the thorax ochraceous. Palpi not ascending higher than the vertex; 3rd joint linear, rather obtuse at the tip, about one-third of the length of the 2nd. Abdomen not extending beyond the hind wings. Pectus, under side of the abdomen, and posterior legs white. Spurs long. Wings moderately broad; interior and exterior lines brownish, undulating, indistinct; submarginal line very indeterminate; marginal points brown. Fore wings acutely subfalcate; costa straight, with elongated white points; exterior border convex. Length of the body 3 lines; of the wings $8\frac{1}{2}$ lines.

440. *CAPNODES? ANOMIOIDES*, n. s. *Mas.* Ferrugineo-rufa, palpis verticem longe superantibus, antennis subpectinatis, tibiis et tarsorum articulis apice albis, alis anticis lineis duabus nigricantibus dentatis indistinctis, linea submarginali e punctis nigris, punctis duobus discalibus albis, alis posticis æneo-fuscis fimbria rufescente.

Male. Ferruginous red, mostly cinereous beneath. Palpi compressed, smooth, erect, rising much higher than the vertex; 3rd joint linear, rather shorter and more slender than the 2nd. Antennæ slightly pectinated. Abdomen extending a little beyond the hind wings. Legs stout, smooth; spurs long; tips of the tibiæ and of the joints of the tarsi white. Fore wings somewhat paler and brighter towards the interior angle; interior and exterior lines blackish, dentate, indistinct; submarginal line composed of black points, of which two or three towards the costa are marked with white; two white discal points. Hind wings æneous brown, with a reddish fringe. Length of the body 8 lines; of the wings 18 lines.

Gen. SELENIS, Guén.

441. SELENIS *ÆQUALIS*, n. s. *Fam.* Cervina, capite thoraceque antico pallide cervinis, thorace postico et abdominis basi albis, alis linea exteriori subobscuriore obliqua subrecta extus cinereo marginata apud costam retracta, linea submarginali cinerea undulata indistincta, alis anticis acutis, vitta subcostali lata alba roseo conspersa.

Female. Fawn-colour, with a cinereous tinge beneath. Head and fore part of the thorax pale fawn-colour. Palpi not ascending higher than the vertex; 3rd joint conical, about one-fourth of the length of the 2nd. Thorax, except in front, and base of the abdomen white. Wings moderately broad; exterior line oblique, nearly straight, a little darker than the ground-hue, bordered with cinereous on the outer side, retracted towards the costa of the fore wings; submarginal line cinereous, undulating, indistinct; marginal points black. Fore wings acute, with a broad, white, rosy-speckled subcostal stripe, which forms a continuous line with the white part of the thorax, and contains a brown subapical dot. Length of the body 4 lines; of the wings 12 lines.

442. SELENIS *VACILLANS*, n. s. *Fam.* Cervina, thorace postico abdominisque basi albis, alis linea exteriori alba obliqua subrecta apud costam retracta, linea submarginali cinerea undulata valde indistincta, alis anticis acutis, vitta subcostali lata alba cervino conspersa maculam subapicalem fuscam includente.

Female. Fawn-colour. Thorax, except in front, and base of the abdomen white. Wings moderately broad; exterior line white, oblique, nearly straight, acutely retracted towards the costa of the fore wings; submarginal line cinereous, undulating, very indistinct; marginal points black. Fore wings acute, with a broad, white, fawn-speckled subcostal stripe, which contains a brown subapical spot, and is excavated hindward at the end. Length of the body 4 lines; of the wings 12 lines.

This species closely resembles *S. æqualis*, and forms the transition between it and *S. inæqualis*; it may be distinguished by the subcostal stripe, which is less regular in its outline, by the exterior line, which is obsolete in the hind wings, and by a blackish spot near the interior angle of the hind wings.

443. SELENIS *INÆQUALIS*, n. s. *Fam.* Ochraceo-cervina, thorace postico abdominisque basi albidis, alis linea exteriori subobscuriore subundulata costam versus albo marginata, linea submarginali e punctis nigricantibus, alis anticis vitta subcostali lata albida purpurascen-
tirofu conspersa, maculas duas fuscas subapicales includente.

Female. Ochraceous fawn-colour. Palpi stouter than those of the two preceding species, rising a little higher than the vertex. Thorax, except in front, and base of the abdomen whitish. Wings moderately

broad ; exterior line slightly undulating, a little darker than the ground-hue, bordered with white towards the costa of the fore wings ; submarginal line indicated by blackish points ; marginal points blackish, white-bordered towards the costa of the fore wings. Fore wings acute, with a broad whitish subcostal stripe, which is thickly speckled with dark purplish red, and contains two brown subapical spots, and is most irregular towards its tip, where it is accompanied by a white streak, whose exterior half is testaceous. Length of the body 4 lines ; of the wings 12 lines.

Gen. *TALARIGA*, *Walk.*

444. *Talariga capacior*, *Walk. Cat. Lep.* 3rd ser. 1634.

Inhabits also Sumatra.

Gen. *GINÆA*, *Walk.*

445. *GINÆA PECTORALIS*, n. s. *Fæm.* *Cervina*, pectore niveo, pedibus niveo variis, alis lineis interiore et exteriori nigricantibus angulosis, linea media fusca recta apud costam flexa, alis anticis linea basali angulosa nigricante, linea submarginali pallida lata subundulata, litora costali alba.

Female. Fawn-colour. Palpi vertical, hardly rising higher than the head ; 3rd joint extremely minute. Legs, partly, and pectus pure white. Wings ample ; interior and exterior lines blackish, zigzag ; middle line less distinct, brown, oblique, and straight, except towards the costa of the fore wings ; fringe dark brown. Fore wings hardly falcate, with a blackish zigzag basal line ; exterior line terminating in a white costal mark ; submarginal line broad, slightly undulating, a little paler than the ground-hue. Length of the body 9 ? lines ; of the wings 24 lines.

Gen. *DAONA*, n. g.

Fæm. *Corpus* sat robustum. *Proboscis* brevis. *Palpi* compressi, verticem longe superantes ; articulus 2^{us} obliquus, subfimbriatus ; 3^{us} erectus, 2^o non brevior. *Antennæ* glabræ. *Abdomen* alas posticas non superans. *Pedes* læves ; tibiæ posticæ apice fimbriatæ, calcaribus quatuor longissimis. *Alæ* anticæ acutæ, costa recta, margine exteriori subconvexo subobliquo.

Female. Body moderately stout. Proboscis short. Palpi compressed. ascending much higher than the vertex ; 2nd joint oblique, slightly fringed ; 3rd erect, as long as the 2nd. Antennæ bare. Abdomen not extending beyond the hind wings. Legs smooth, moderately stout ; hind tibiæ fringed towards the tips, with four very long spurs. Wings moderately broad. Fore wings acute ; costa straight ; exterior border slightly convex and oblique.

This genus has some affinity to the *Herminidæ*.

446. *DAONA MANSUETA*, n. s. *Fæm.* Pallidissime cervina, alis subconspersis, linea exteriori subobscuriore subundulata, margine exte-

riore fuscescente, costa subtus rufescente, alis anticis fascia cervina, linea submarginali fuscescente subrecta, punctis duobus discalibus nigris.

Female. Very pale fawn-colour. Wings slightly speckled, brownish along the exterior border; marginal festoon blackish; exterior line slightly undulating, a little darker than the ground-hue; under side pale reddish along the costa. Fore wings with a slight fawn-coloured band along the inner side of the exterior line; submarginal line brownish, nearly straight; marginal points black; two black discal points. Length of the body $3\frac{1}{2}$ lines; of the wings 9 lines.

Gen. VESCISA, n. g.

Mas. *Corpus* sat robustum. *Proboscis* conspicua. *Palpi* compressi, verticem paullo superantes; articulus 2^{us} subfimbriatus; 3^{us} conicus, minimus. *Antennæ* vix setulosæ. *Abdomen* alas posticas non superans; fasciculus apicalis minimus. *Pedes* sat validi. *Alæ* breviusculæ, latiusculæ, margine exteriori subangulato; anticæ acutæ, costa vix convexa, margine exteriori antico inciso.

Male. Body moderately stout. Frontal tuft prominent. *Proboscis* distinct. *Palpi* compressed, moderately broad, ascending a little higher than the vertex; 2nd joint slightly fringed; 3rd conical, not more than one-sixth of the length of the 2nd. *Antennæ* nearly imperceptibly setulose. *Abdomen* not extending beyond the hind wings; apical tuft very small. *Legs* moderately stout. *Wings* rather short and broad. Fore wings acute; costa hardly convex; exterior border slightly angular in the middle, with two excavations in the fore part, rather oblique hindward. Hind wings slightly angular.

447. VESCISA COMMODA, n. s. *Fæm.* Pallide cinerea, æneo-albido subtincta, capite thoraceque antico fuscis, alis linea exteriori fuscescente informi interrupta apud costam flexa et dilatata, lineis duabus adhuc exterioribus e punctis nigricantibus, linea submarginali denticulata pallide cinerea valde indistincta, alis anticis macula costali subapicali ferruginea nigricante et cinereo notata, alis posticis macula apud angulum interiorem magna nigra.

Female. Pale cinereous, with a slight whitish æneous tinge. Head and fore part of the thorax brown. Wings with the exterior line brownish, irregular, incomplete, bent and dilated towards the costa; two more exterior lines of blackish points; submarginal line pale cinereous, denticulated, very indistinct; marginal points brown. Fore wings with elongated black costal points, and with a ferruginous costal subapical spot which is marked with blackish and with cinereous. Hind wings with a cluster of ferruginous speckles in the disk, and with a large black spot by the interior angle. Length of the body $3\frac{1}{2}$ lines; of the wings 9 lines.

Gen. AUSINZA, n. g.

Fæm. *Corpus* sat robustum. *Proboscis* conspicua. *Palpi* porrecti, rostriformes, caput longe superantes; articulus 2^{us} supra convexus; 3^{us} minimus. *Antennæ* graciles. *Abdomen* alas posticas non superans. *Pedes* læves. *Alæ* breviusculæ, latiusculæ; anticæ acutæ, costa recta, margine exteriori vix flexo, postice obliquo.

Female. Body rather stout. Proboscis distinct. Palpi porrect, rostriform, extending much beyond the head; 2nd joint convex above; 3rd extremely minute. Antennæ slender. Abdomen not extending beyond the hind wings. Legs smooth, moderately stout; spurs long. Wings rather short and broad. Fore wings acute; costa straight; exterior border hardly bent, oblique hindward.

448. AUSINZA ÆQUA, n. s. *Fæm.* Cervina, alis nigro conspersis, lineis interiore et exteriori pallide cinereis rectis obliquis parallelis, linea submarginali valde indistincta, punctis marginalibus pallidis.

Female. Fawn-colour, paler and with a cinereous tinge beneath. Wings minutely black-speckled; interior and exterior lines pale cinereous, straight, oblique, parallel; submarginal line very indistinct; marginal points black; marginal line pale. Length of the body 2½ lines; of the wings 7 lines.

Gen. ASTYGISA, n. g.

Mas. *Corpus* sat robustum. *Proboscis* conspicua. *Palpi* validi, caput paullo superantes; articulus 2^{us} oblique ascendens; 3^{us} conicus, parvus. *Antennæ* pectinatæ, apices versus simplices. *Pedes* læves, sat graciles, calcaribus longissimis. *Alæ* anticæ amplæ, acutæ, costa margineque exteriori subconvexis; posticæ abdomen superantes, angulo interiore producto.

Male. Body moderately stout. Proboscis distinct. Palpi stout, extending a little beyond the head; 2nd joint obliquely ascending; 3rd conical, porrect, less than one-fourth of the length of the 2nd. Antennæ moderately pectinated to much beyond half the length. Legs smooth, rather slender; spurs very long. Wings ample. Fore wings acute; costa and exterior border very slightly convex, the latter moderately oblique. Hind wings extending beyond the abdomen; interior angle prominent.

449. ASTYGISA LARENTIATA, n. s. *Mas.* Cinereo-ferruginea, alis lineis basali et interiore obscurioribus undulatis, lineis exteriori et submarginali subundulatis, alis anticis basi plagaque subapicali lituraque discali indistincta ferrugineis, alis posticis puncto discali albo.

Male. Ferruginous with a cinereous tinge, the latter hue more prevalent on the under side. Wings with the basal and interior lines darker ferruginous, undulating; exterior and submarginal lines almost undulating. Fore wings darker and with fawn-coloured streaks along the

costa; a ferruginous subapical patch and some whitish apical marks; base ferruginous; interior line emitting a streak to the disk in front; an indistinct ferruginous discal mark. Hind wings with a white discal point. Length of the body 6 lines; of the wings 16 lines.

450. *ASTYGISA METASPILA*, n. s. *Mas.* Rufescenti-fusca, subtus cinerea, antennis subpectinatis apice glabris, alis amplis e lituris transversis albidis vix bifasciatis, alis anticis gutta discali rotunda alba.

Male. Reddish brown, cinereous beneath. Palpi slightly ascending; 3rd joint linear, rounded at the tip, about one-third of the length of the 2nd. Antennæ slightly pectinated to beyond half the length. Legs slender, smooth. Wings ample, with transverse whitish speckles, which are most prevalent in the fore wings, especially along the costa, and form two irregular bands. Hind wings with a round white discal spot. Length of the body 5 lines; of the wings 14 lines.

Gen. *MURGISA*, n. g.

Mas. *Corpus* vix robustum. *Proboscis* conspicua. *Palpi* longi, erecti, fimbriati, verticem longe superantes; articulus 3^{us} lanceolatus, 2ⁱ dimidio non longior. *Antennæ* pectinatae. *Abdomen* alas posticas vix superans. *Pedes* sat graciles, femoribus tibiisque subfimbriatis, calcaribus longis. *Alæ* amplæ, fimbria subdentata; anticæ acutæ, costa vix convexa, basi fimbriata, margine exteriori convexo sat obliquo.

Male. Body hardly stout. *Proboscis* distinct. *Palpi* long, erect, fringed, ascending high above the head; 3rd joint lanceolate, about half the length of the 2nd. *Antennæ* moderately pectinated; the branches very short towards the tips. *Abdomen* hardly extending beyond the hind wings. Legs rather slender; femora and tibiæ slightly fringed; spurs long. Wings ample; fringe slightly notched. Fore wings acute; costa hardly convex, fringed towards the base; exterior border convex, rather oblique.

451. *MURGISA ORGYOIDES*, n. s. *Mas.* Obscure fusca, palpis nigricantibus, alis cinereo subconspersis, lineis interiore et exteriori cinereis denticulatis albo variis, alis anticis macula marginali alba, fimbria antica albo quadrinotata, lunula discali nivea.

Male. Dark brown. *Palpi* blackish. Wings minutely and indistinctly speckled with cinereous; interior and exterior lines cinereous, denticulated, here and there white and more distinct. Fore wings with a large white spot on the middle of the exterior border; fore part of the fringe with four white elongated dots; discal lunule pure white. Length of the body $6\frac{1}{2}$ lines; of the wings 15 lines.

Gen. *DETOUNDA*, n. g.

Fæm. *Corpus* sat robustum. *Proboscis* valida. *Palpi* læves, subangulati, verticem non superantes; articulus 3^{us} longiconicus, 2ⁱ dimidio

non longior. *Antennæ* vix setulosæ. *Abdomen* alas posticas non superans. *Pedes* læves; calcaria longissima. *Alæ* anticæ latæ, rectangularæ, costa vix convexa, margine exteriore recto vix obliquo.

Female. Body moderately stout. Proboscis robust, of moderate length. Palpi smooth, not rising higher than the vertex; 2nd joint obliquely ascending; 3rd joint elongate-conical, more porrect than the 2nd, and about half its length. *Antennæ* hardly setulose. Abdomen not extending beyond the hind wings. Legs smooth; spurs very long. Wings broad. Fore wings acutely rectangular; costa very slightly convex; exterior border straight, hardly oblique.

452. *DETOUNDA SPURCATA*, n. s. *Fæm.* Pallide subtestaceo-cinerea, capite antico fuscescente, alis anticis nigro conspersis, lineis duabus fuscescentibus indistinctis interruptis, alis posticis fuscescenti-cinereis lunula discali nigricante.

Female. Pale cinereous with a slight testaceous tinge. Head in front and palpi brownish. Fore wings with irregular black speckles; interior and exterior lines brownish, very indistinct and incomplete; under side brownish cinereous. Hind wings brownish cinereous, with a small blackish discal lunule; under side pale cinereous, speckled with black. Length of the body 5 lines; of the wings 12 lines.

Gen. *BAGISTANA*, n. g.

Mas. *Corpus* sat robustum. *Proboscis* conspicua. *Palpi* ascendentes, læves, graciles, lineares; articulus 3^{us} 2^o non brevior. *Antennæ* subsetulosæ, basi subincrassatæ. *Abdomen* alas posticas perpaullo superans; fasciculus apicalis depressus. *Pedes* læves, sat validi, calcaribus longissimis. *Alæ* latiusculæ, breviusculæ; anticæ apice subrotundatæ, costa subconvexa, margine exteriore recto, margine interiore fimbriato.

Male. Body moderately stout. Proboscis distinct. Palpi ascending, smooth, slender, linear; 3rd joint full as long as the 2nd. *Antennæ* minutely setulose, slightly incrassated near the base. Abdomen extending very little beyond the hind wings; apical tuft flat. Legs smooth, moderately stout; spurs very long. Wings rather broad and short. Fore wings slightly rounded at the tips; costa slightly convex; exterior border straight, moderately oblique; interior border fringed, slightly convex.

453. *BAGISTANA RUDIS*, n. s. *Mas.* Pallide testacea, abdomine apice subtus nigro, alis anticis fusco subconsersis, vitta obliqua nigricante, vitta exteriore nigricante late interrupta, alis posticis albidis.

Male. Pale testaceous. Abdomen black at the tip beneath. Fore wings indistinctly speckled with brown; a blackish oblique stripe proceeding from the base of the costa to the middle of the interior border; a more irregular and widely interrupted blackish stripe proceeding from the middle of the costa to the interior angle. Hind wings whitish. Length of the body 4 lines; of the wings 10 lines.

Gen. DUMATHA, n. g.

Fœm. Corpus sat robustum. Proboscis conspicua. Palpi longi, læves, verticem superantes; articulus 3^{us} lanceolatus, 2^o non brevior. Antennæ glabræ. Abdomen alas posticas non superans. Pedes læves, sat validi, calcaribus longissimis. Alæ breviusculæ, latiusculæ; anticæ apice subrotundatæ, costa et margine interiore subconvexis, margine exteriori convexo.

Female. Body moderately stout. Proboscis of moderate length. Palpi long, smooth, obliquely ascending, rising higher than the vertex; 3rd joint lanceolate, as long as the 2nd. Antennæ smooth. Abdomen not extending beyond the hind wings. Legs smooth, moderately stout; spurs very long. Wings rather broad and short. Fore wings slightly rounded at the tips; costa and interior border slightly convex; exterior border convex.

This genus has some affinity to the *Tortricites*.

454. DUMATHA HERBIDA, n. s. *Fœm.* Viridis, corpore subtus albido, abdomine alisque posticis fuscis, alis anticis cinereo variis, lineis duabus albis subundulatis, fascia obliqua obscure viridi, guttis nigris lineaque alba submarginalibus, costa apicem versus margineque exteriori subtus rufescentibus.

Female. Grass-green. Body whitish beneath. Abdomen and hind wings brown. Fore wings varied with cinereous; interior and exterior lines white, slightly undulating, the latter intersecting an oblique dark green band; a row of black submarginal dots, mostly accompanied by a white line; under side blackish cinereous, reddish along the exterior part of the costa and about the exterior border. Length of the body 4 lines; of the wings 10 lines.

Gen. BADIZA, n. g.

Mas. Corpus sat gracile. Proboscis conspicua. Palpi longiusculi, compressi, angulati, fimbriati; articulus 3^{us} lanceolatus, 2ⁱ dimidio non longior. Antennæ pectinatæ, apud medium serratæ et subincrassatæ. Abdomen longiusculum, alas posticas paullo superans; latera subfasciculata. Pedes longiusculi, sat graciles, femoribus tibiisque subfimbriatis, calcaribus longissimis. Alæ amplæ, subdentatæ; anticæ acutæ, costa recta, margine exteriori postico perobliquo.

Male. Body rather slender. Proboscis distinct. Palpi compressed, fringed, rather long; 2nd joint obliquely ascending; 3rd lanceolate, porrect, not fringed towards the tip, about half the length of the 2nd, with which it forms an angle. Antennæ pectinated; middle part serrated, slightly incrassated; branches slender, not long. Abdomen rather long, extending a little beyond the hind wings; sides slightly tufted; apical tuft small. Legs rather long and slender; femora and tibiæ slightly fringed; spurs very long. Wings ample, slightly dentate. Fore wings acute; costa straight; exterior border very oblique hindward.

455. *BADIZA EREBOIDES*, n. s. *Mas.* Fusca, subtus testaceo-cinerea, alis subconspersis, linea exteriori recta obliqua nigro-fusca cinereo marginata apud costam retracta, linea submarginali cinerea angulosa, alis anticis plaga marginali subapicali cervina, costa apicali nigricante, reniformi e macula subcostali nigricante.

Male. Brown, testaceous cinereous beneath. Wings minutely speckled; exterior line straight, oblique, blackish brown, cinereous-bordered, retracted towards the costa of the fore wings; submarginal line cinereous, zigzag; marginal lunules blackish brown; under side with the interior, exterior, and submarginal lines dentate, the 1st and 2nd brown, the 3rd cinereous, broadly bordered with brown. Fore wings with a subapical fawn-coloured patch on the exterior border; tip of the costa blackish; reniform mark represented by a blackish spot near the costa. Length of the body $7\frac{1}{2}$ lines; of the wings 15 lines.

Addenda to the preceding Families.

Fam. LITHOSIIDÆ, *Steph.*

Gen. MIROBRIGA, n. g.

Mas. *Corpus* sat robustum. *Proboscis* conspicua. *Palpi* arcuati, breves, ad frontem applicati; articulus 3^{us} minimus. *Antennæ* subsetulosæ. *Abdomen* lanceolatum, basi cristatum, apice compressum, alas posticas vix superans. *Pedes* vix pilosi, calcaribus longis. *Alæ* anticæ elongatæ, apice rotundatæ.

Male. Body moderately stout. *Proboscis* distinct. *Palpi* curved, hardly stout, with very short hairs, applied to the front, not ascending to the vertex; 3rd joint very minute. *Antennæ* minutely setulose. *Abdomen* lanceolate, crested towards the base, slightly compressed towards the tip, hardly extending beyond the hind wings; apical tuft very small and compressed. Legs rather stout, nearly bare; hind tibiæ with four long spurs. Wings elongate. Fore wings somewhat rounded at the tips; costa straight; exterior border slightly convex, very oblique.

The affinities of this genus are doubtful, and it hardly seems to be one of the *Lithosiidæ*.

456. *MIROBRIGA PULCHRIPICTA*, n. s. *Mas.* Ochracea, abdomine albido-cinereo, cristis apiceque ochraceis, alis luteo variis linea media cinerea dentata diffusa, linea exteriori interrupta cupreo conspersa, linea submarginali læte ochracea subrecta cupreo liturata, alis anticis cupreo triguttatis.

Male. Ochraceous, paler beneath. Abdomen mostly whitish cinereous, except the tufts and the tip. Wings partly luteous; middle line dark cinereous, dentate, diffuse; exterior line less distinct, interrupted, with cupreous speckles; submarginal line bright ochraceous, nearly

straight, accompanied by little clusters of cupreous speckles; marginal points black, elongated into slender streaks. Fore wings with three convex cupreous dots, one occupying the place of the orbicular mark, the other two that of the reniform. Length of the body $6\frac{1}{2}$ lines; of the wings 16 lines.

Fam. NOTODONTIDÆ, *Steph.*

Gen. STAUIRUS, *Germer.*

457. STAUIRUS? INDETERMINATUS, n. s. *Mas.* Albido-cinereus, antennis late pectinatis, abdomine alas posticas paullo superante; alis anticis nigro subconspersis, apice subrotundatis, lineis tribus fuscescentibus undulatis indistinctis, reniformi ex annulo interrupto, margine exteriore perobliquo.

Male. Whitish cinereous. Antennæ broadly pectinated. Abdomen extending a little beyond the hind wings. Legs moderately stout, spurs long. Wings moderately broad. Fore wings slightly black-speckled, slightly rounded at the tips; interior, exterior, and submarginal lines brownish, undulating, indistinct, except by the costa, where there are other brown marks; submarginal points black; reniform mark represented by an incomplete ringlet; costa straight; exterior border very oblique. Length of the body 7 lines; of the wings 16 lines.

Gen. FELIA, n. g.

Fem. Corpus sat robustum. Proboscis gracilis. Palpi verticem non attingentes; articulus 2^{us} validus, arcuatus; 3^{us} minimus. Antennæ glabræ, setacæ, submoniliformes; articulus 1^{us} incrassatus. Abdomen alas posticas non superans. Pedes validi; tibiæ pilosæ; calcaria quatuor, brevia. Alæ anticæ longæ, amplæ, apice rotundatæ, costa vix convexa, margine exteriore subconvexo perobliquo.

Female. Body moderately stout. Proboscis slender. Palpi not rising so high as the vertex; 2nd joint stout, curved; 3rd extremely minute. Antennæ smooth, setaceous, submoniliform; basal joint incrassated. Abdomen not extending beyond the hind wings. Legs stout; tibiæ pilosæ; hind tibiæ with four short spurs. Wings long, ample. Fore wings rounded at the tips; costa hardly convex; exterior border slightly convex, very oblique.

458. FELIA INTERMIXTA, n. s. *Fem.* Cervina, nigro et cinereo conspersa, abdominis segmentis nigro marginatis, alis cinereis nigro conspersis, fasciis duabus cervinis lineisque duabus nigris undulatis, alis anticis macula costali cervina nigro notata, alis posticis fascia interiore nigro diffuse marginata.

Female. Fawn-colour, speckled with black and with cinereous, cinereous beneath. Thorax speckled with black. Hind borders of the abdominal segments black. Wings cinereous, black-speckled, with

two undulating fawn-coloured bands, which are accompanied by black equally undulating lines; marginal line black, festooned. Fore wings with an intermediate fawn-coloured costal black-marked spot. Hind wings with the inner band diffusedly black-bordered. Length of the body 6 lines; of the wings 18 lines.

On the Species of *Mitridæ* found in the Seas of Japan.

By ARTHUR ADAMS, F.L.S., &c.

[Read Dec. 3, 1863.]

THE shores of the Japanese Islands which are washed by the Pacific are most prolific in species of *Mitridæ*. Towards the north, in the Sea of Japan, I met with no member of the family. A few new species are here described, and a systematic list of all the species which were actually obtained by me in those seas is given.

Fam. MITRIDÆ.

A. MITRINÆ.

1. MITRA, *Lam.*

1. *Mitra impressa*, *Anton, Kuster. Conch. Cab.* pl. 14. f. 6, 7; *Rve.* sp. 250.

Hab. Japan (*Siebold*).

2. *Mitra floccata*, *Rve. Conch. Icon.* sp. 16.

Hab. Mososeki.

3. *Mitra sacerdotalis*, *A. Ad. Proc. Zool. Soc.* 1851, p. 138.

Hab. Kino-O-Sima.

4. MITRA JAPONICA, *A. Ad.*

M. testa turrito-fusiformi, albida, rufo maculata et variegata, spira qua apertura longiore; anfractibus 9, convexis, plicis longitudinalibus confertis lirisque transversis decussatis; apertura angusta; labio plicis quatuor validis obliquis instructo; labro postice subangulato, margine in medio recto.

Hab. Kino-O-Sima.

The decussation of the small longitudinal plicæ and transverse liræ give this species a granular surface. The colour is dingy white, stained and mottled with rufous.

2. SCABRICULA, *Swains.*

1. *Scabricula scabricula*, *L. (Voluta scabricula, L. Syst. Nat. ed. 12. p. 1192.—Mitra scabricula, Rve. sp. 35.—M. granatina, Lam.)*

Hab. Kino-O-Sima.



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