V.—Descriptions of twenty-five new species of Hesperidæ

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To cite this article: W.C. Hewitson (1877) V.—Descriptions of twenty-five new species of Hesperidæ, Annals and Magazine of Natural History, 19:109, 76-85, DOI: [10.1080/00222937708682096](https://doi.org/10.1080/00222937708682096)

To link to this article: <http://dx.doi.org/10.1080/00222937708682096>

Published online: 15 Oct 2009.

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Fig. 24. Stromatopora striatella, in yellowish compact limestone, from Upper Silurian system. Portion of natural surface, natural size. *a*, stellate systems of canals; *b*, papillary apertures of radial tubes.

Fig. 25. The same. Horizontal section, natural size, showing:—*a*, foreign nucleus, consisting of a fragment of a concamerated test like *Orthoceras*.

V.—Descriptions of twenty-five new Species of Hesperidæ.

By W. C. HEWITSON.

WHEN ten years ago I described 176 new species of *Hesperidæ*, I stated that I would apologize for doing so (knowing the worthlessness of descriptions unaccompanied by illustrations) if I did not hope to figure the whole in the 'Exotic Butterflies.' I am happy to say that nearly the whole have been figured; and, though I cannot now make the same promise, since that work has come to its hundredth and final part, I still hope to figure the *Hesperidæ* which I am now describing in the 'Illustrations of Diurnal Lepidoptera,' in which the *Lyceinidæ* now make their appearance. I may repeat now what I stated then, that, although numbers of *Hesperidæ* differ little on the upperside, some characteristic traits exist on the underside of the posterior wing; and upon these I have chiefly relied to enable me to discriminate one from another.

Hesperia Gonessa.

Alis utrinque fuscis: anticis punctis octo hyalinis: his infra angulo anali albo fasciaque submarginali pallida: posticis infra fasciis duabus macularum pallidarum: abdomine albo.

Upperside dark brown. Anterior wing with eight small transparent white spots—two in the cell, three in a longitudinal band below these, and three near the apex: the fringe of the posterior wing and the abdomen white.

Underside as above, except that the anal angle of the anterior wing is broadly white, and that there is a submarginal series of indistinct pale spots, and that the posterior wing has two submarginal series of similar spots.

Exp. $1\frac{1}{2}$ inch.

Hab. Angola (*Rogers*).

In the collection of W. C. Hewitson.

Hesperia Fiscella.

Alis utrinque fuscis: anticis punctis sex hyalinis: posticis fascia ochracea: his infra fascia flava.

Upperside dark brown. Anterior wing with six transparent spots—one in the cell, one just below it, one (minute) between it and the inner margin, and three (at a distance from each other) between it and the apex. Posterior wing crossed transversely by an indistinct ochreous band.

Underside as above, except that the band of the posterior wing is more distinct and pale yellow.

Exp. $1\frac{4}{10}$ inch.

Hab. Para.

In the collection of W. C. Hewitson.

Hesperia Zema.

Alis utrinque rufo-fuscis: anticis punctis sex hyalinis: posticis macula ochracea: his infra fascia alba.

Upperside dark rufous-brown. Anterior wing with six transparent white spots—one in the cell, two divided by a branch of the median nervure, and three near the apex: a black linear spot (which denotes the male) from the inner margin. Posterior wing with an indistinct central ochreous spot: the fringe white.

Underside as above, except that it is rufous, that the anterior wing has the costal margin and a subapical band ochraceous, and that the posterior wing is crossed from the costal margin to the submedian nervure by a band of pale yellow.

Exp. $1\frac{3}{10}$ inch.

Hab. Darjeeling and Sarawak.

In the collection of W. C. Hewitson.

Hesperia Zimra.

Alis supra fuscis: anticis fascia longitudinali media punctisque duobus subapicalibus bifidis hyalinis: posticis fascia angulari ochracea: his infra viridi-fuscis, macula basali fasciaque lata flavo-albis.

Upperside dark rufous-brown. Anterior wing crossed longitudinally at the middle by a quadrifid band, and near the apex by two bifid spots, all transparent. Posterior wing crossed transversely near the middle by an angular ochreous band: the fringe pale yellow.

Underside as above, except that it is tinted with green, that both wings have a submarginal band of ochreous spots,

and that the posterior wing has a pale yellow spot at the base and a central broad angular band of pale yellow from the costal margin to the submedian nervure.

Exp. $1\frac{5}{10}$ inch.

Hab. Brazil.

In the collection of W. C. Hewitson.

Hesperia Oropa.

Alis supra fuscis: anticis puncto fasciæque flavis: posticis puncto fasciæque angulari lata fulvis: alis infra viridi-fuscis, fasciis albis.

Upperside dark brown. Anterior wing crossed from the costal margin near the apex to the middle of the inner margin by a continuous orange-yellow band. Posterior wing with a spot near the base and a broad central angular band from the costal margin to beyond the middle, both orange.

Underside as above, except that the bands are nearly white, that the anterior wing has the apical half green and a spot of yellow in the cell, and that the posterior wing is green and has the band extended to nearer the anal angle.

Exp. $1\frac{3}{10}$ inch.

Hab. Brazil.

In the collection of Dr. Staudinger.

Very near to *H. Zimra*, but differs from it in the continuous band on the upperside of the anterior wing, in having a small spot in the cell on the underside of the same wing, and in having the spot which in *H. Zimra* is at the base of the underside of the posterior wing lower down.

Hesperia Goza.

Alis utrinque rufo-fuscis: anticis fascia maculari longitudinali flava: posticis macula ochracea: his infra fascia lata recta alba.

Upperside dark rufous-brown. Anterior wing crossed longitudinally by a band of three pale yellow spots. Posterior wing with a central indistinct ochreous spot.

Underside as above, except that it is paler and that the posterior wing is crossed at the middle by a broad, straight, very equal band of pale yellow and has a triangular spot of the same colour on the inner margin: the fringe and a pale spot near it rufous. The palpi, breast, and abdomen orange.

Exp. $1\frac{3}{10}$ inch.

Hab. Venezuela.

In the collections of W. C. Hewitson and Dr. Staudinger.

Hesperia Meza.

Alis utrinque fuscis: anticis punctis novem hyalinis: posticis puncto hyalino punctisque duobus ochraceis: his infra fasciis duabus cineraceis.

Upperside dark brown. Anterior wing with nine transparent spots—two in the cell, four in a central longitudinal band, and three (touching) near the apex. Posterior wing with a transparent spot before the middle and two ochreous spots below it.

Underside as above, except that the anterior wing has a spot of grey near the inner margin and one at the apex, and that the posterior wing has a pale yellow line bounding the abdominal fold, and is crossed at the middle and near the outer margin by bands of grey.

Exp. $1\frac{2}{10}$ inch.

Hab. Angola (*Rogers*).

In the collection of W. C. Hewitson.

Hesperia Galesa.

Alis utrinque fuscis: anticis punctis octo hyalinis: posticis punctis quatuor, quorum duo solum sunt hyalina.

Both sides dark brown. Anterior wing with eight transparent white spots—two in the cell, four in a longitudinal band, and two near the apex. Posterior wing with a transverse series of three or four spots, two of which only are distinct and transparent. Anus white.

Exp. $1\frac{1}{2}$ inch.

Hab. West Africa.

In the collection of W. C. Hewitson.

A very robust species and much like the last, probably its male.

Hesperia Fibrena.

Alis utrinque fuscis: anticis punctis undecim hyalinis: posticis angulo anali albo: his infra albis, maculis fasciæque rufo-fuscis.

Upperside dark brown. Anterior wing with eleven transparent spots—one on the costal margin and two in the cell, one below these in the form of an l, three between this and the apex, one above these, and three as usual near the apex. Posterior wing with a tuft of rufous hair at the base: the anal angle broadly white, divided by a band of brown.

Underside. Anterior wing as above, but paler. Posterior wing white, with the costal margin, two spots below it near

the base, a spot below these, and a transverse irregular band, and a spot at the anal angle, all rufous-brown.

Exp. $1\frac{4}{10}$ inch.

Hab. Amazon, Tonantins (*Bates*).

In the collection of W. C. Hewitson.

Unlike any other species.

Hesperia Maheta.

Alis supra fuscis : anticis punctis septem hyalinis punctoque fulvo : posticis fascia fulva : his infra rufis, maculis quatuor argenteis.

Upperside dark brown. Anterior wing with seven transparent spots—one in the cell, three below forming a longitudinal band, and three at the apex; a spot of yellow on the inner margin. Posterior wing crossed transversely by a band of orange.

Underside pale rufous-grey, except the lower half of the anterior wing and the inner margin and anal angle of the posterior wing, which are dark brown. Posterior wing marked by four silvery white spots—two before the middle and two below these, one of which is minute—and by a less distinct white spot and several small brown spots.

Exp. $1\frac{3}{10}$ inch.

Hab. Queensland.

In the collection of W. C. Hewitson.

A very distinct and beautiful species.

Hesperia Luda.

Alis utrinque fuscis : anticis basi cæruleo tincta, punctis quatuor hyalinis : posticis infra macula media fasciæque marginali lata albis.

Upperside dark brown, tinted with blue at the base. Anterior wing with four transparent spots—one in the cell sinuated on its outer border, and three below this forming a longitudinal band, the middle spot large and triangular. Posterior wing projecting at the lobe.

Underside as above, except that it is rufous-brown, that the small spot near the inner margin of the anterior wing is large and undefined, and that the posterior wing has a small central spot and a broad band of grey intersected by black nervures at the middle of the outer margin.

Exp. 2 inches.

Hab. Chiriqui (*Ribbe*).

In the collection of Dr. Staudinger.

Hesperia Mythea.

Alis utrinque fuscis: anticis maculis tribus hyalinis: posticis infra fascia lata argenteo-alba.

Upperside dark brown. Anterior wing with three transparent white spots—one in the cell and two below it between the branches of the median nervures.

Underside as above, except that there is a broad central silvery white band from the costal margin to the abdominal fold of the posterior wing.

Exp. $1\frac{9}{10}$ inch.

Hab. Malacca.

In the collection of Dr. Staudinger.

Hesperia Fidicula.

Alis utrinque fuscis: anticis punctis tribus hyalinis: posticis macula quadrata alba.

Both sides dark brown. Anterior wing with three transparent spots—two between the branches of the median nervure, and one near the apex. Posterior wing with a large quadrate white spot near the middle of the outer margin.

Exp. $1\frac{2}{3}$ inch.

Hab. Costa Rica.

In the collection of Dr. Staudinger.

Hesperia Fufidia.

Alis utrinque fuscis: anticis punctis sex hyalinis: posticis infra fascia alba.

Upperside dark brown. Anterior wing with six transparent spots—one in the cell, three below this forming a longitudinal band, the middle spot sagittate, and two very minute near the apex.

Underside as above, except that it is rufous-brown and that the posterior wing is crossed below the middle from the costal margin to the abdominal fold by a band commencing at the costal margin by a separate spot.

Exp. $1\frac{2}{3}$ inch.

In the collection of Dr. Staudinger.

Hesperia Lota.

Alis supra fuscis: anticis punctis quatuor hyalinis: posticis infra rufescentibus punctis quinque nigris.

Upperside dark brown. Anterior wing with four trans-
Ann. & Mag. N. Hist. Ser. 4. Vol. xix.

parent spots—one in the cell and three below it forming a longitudinal band.

Underside pale rufous-brown, except at the base of the anterior wing, which is dark brown. Anterior wing with two minute black spots near the apex where the white spots usually are. Posterior wing with five black spots—three forming a longitudinal band near the middle, and two smaller spots, one on each side of these.

Exp. $1\frac{1}{2}$ inch.

In the collection of Dr. Staudinger.

Hesperia Meda.

Alis supra rufo-fuscis: anticis infra apice, posticis omnino cineraceis, venis nigris.

Upperside dark rufous-brown.

Underside. Anterior wing with the basal half dark brown, the apical half and the whole of the posterior wing grey: the nervures black.

Exp. $1\frac{1}{2}$ inch.

Hab. Brazil.

In the collection of Dr. Staudinger.

Hesperia Uza.

Alis utrinque rufo-fuscis: anticis infra margine postico, posticis dimidio postico cineraceis.

Upperside dark rufous-brown.

Underside as above, except that the outer margin of the anterior wing and more than the outer half of the posterior wing are lilac-white.

Exp. $1\frac{1}{2}$ inch.

In the collection of Dr. Staudinger.

Hesperia Egla.

Alis utrinque fuscis: anticis punctis octo hyalinis: posticis fascia tripartita hyalina.

Both sides dark brown. Anterior wing with eight transparent white spots—two in the cell obliquely placed, three below these forming a longitudinal band, the middle spot large and triangular, and three at the apex. Posterior wing with a transverse trifid transparent band.

Exp. $1\frac{1}{2}$ inch.

Hab. Chiriqui (*Ribbe*).

In the collection of Dr. Staudinger.

Near to *H. opigena*.

Hesperia Kora.

Alis utrinque atris: anticis punctis tribus hyalinis: posticis macula bipartita hyalina: alis infra fascia submarginali lilacina, anticis macula subapicali, posticis fascia lilacinis.

Upperside black. Anterior wing with three transparent white spots—two between the branches of the median nervure, and one (minute) near the apex; a small white spot on the fringe at the anal angle. Posterior wing with a central bifid white transparent spot: the fringe white at the apex and anal angle.

Underside as above, except that both wings have the nervures and a subapical band lilac, that there is a lilac spot near the apex of the anterior wing, and a lilac band near the base of the posterior wing.

Exp. $1\frac{6}{10}$ inch.

Hab. Brazil.

In the collection of Dr. Staudinger.

In general appearance like *H. Calvina*.

Hesperia Midia.

Alis utrinque rufo-fuscis: anticis punctis quinque hyalinis punctisque duobus albis: posticis infra puncto albo.

Upperside rufous-brown. Anterior wing with five transparent white spots—two large and triangular between the branches of the median nervure, and three separate near the apex, and below them a minute dull white spot; a similar spot near the inner margin. Posterior wing with one dull white spot below the middle: the fringe rufous-white.

Underside as above, except that it is paler, especially on the outer half, and that there is a second minute pale spot on the underside of the posterior wing.

Exp. $1\frac{5}{8}$ inch.

Hab. Chiriqui (*Ribbe*).

In the collection of Dr. Staudinger.

Hesperia Abima.

Alis supra fuscis, anticis punctis quatuor hyalinis: anticis infra apice ochraceo: posticis omnino ochraceis, punctis quinque fuscis.

Upperside dark brown. Anterior wing with four transparent spots—one, deeply sinuated, in the cell, two between the branches of the median nervure, and one near the apex; the costal and inner margin from the base to the middle

clothed with ochreous hair. Posterior wing clothed with ochreous hair from the base to the middle.

Underside. Anterior wing as above, except that the costal margin and apical half are ochreous. Posterior wing ochreous, with five undefined brown spots—two before the middle and three after.

Exp. $1\frac{1}{2}$ inch.

Hab. Macassar (*Wallace*).

In the collection of W. C. Hewitson.

Hesperia Hazarma.

Alis supra rufo-fuscis: anticis infra fuscis, fascia margineque postico rufis: posticis ochraceo-rufescentibus, macula nigra media.

Upperside rufous-brown.

Underside. Anterior wing dark brown, with the costal and outer margins rufous, a curved band of paler colour commencing near the apex and ending at the middle of the wing in two separate spots. Posterior wing pale ochreous brown, marked at the middle by a distinct black spot and near it two minute brown spots; crossed near the outer margin by two bands of pale yellow.

Exp. $1\frac{3}{10}$ inch.

In the collection of Dr. Staudinger.

Hesperia Neba.

Alis supra fuscis: anticis margine costali ochraceo, punctis octo hyalinis: posticis fascia flava quinquepartita: his infra pallide rufescentibus macula anali triangulari fusca.

Upperside dark brown, the fringe broad and white. Anterior wing with the costal margin ochreous: eight transparent white spots—two in the cell and one below them, three near the apex and two below them: a triangular pale yellow spot near the inner margin. Posterior wing with a transverse band a little below the middle, of five pale yellow spots divided by the nervures.

Underside. Anterior wing as above, except that the apical half is grey. Posterior wing grey, with the abdominal fold dark brown.

Exp. $1\frac{1}{10}$ inch.

Hab. Natal.

In the collection of W. C. Hewitson.

A pretty and very distinct species.

Hesperia Optata.

Alis utrinque rufo-fuscis : anticis infra plaga atra plagisque duabus flavis : posticis plaga flava.

Upperside rufous-brown, paler at the middle of the anterior wing, the fringe rufous-yellow, the head and thorax tinted with lilac-blue.

Underside rufous. Anterior wing with a band of dark brown from the base to beyond the middle, bordered below with pale yellow. Posterior wing with the base rufous-brown, tinted with purple and bordered below with pale yellow.

Exp. $1\frac{9}{10}$ inch.

Hab. Brazil.

In the collection of Dr. Staudinger.

Unlike any other species in the strange colouring of the underside.

Hesperia Onasima.

Alis utrinque rufo-fuscis : anticis punctis quatuor (duobus sub apicem minutissimis) hyalinis : posticis punctis duobus hyalinis : anticis infra plaga flava.

Upperside dark brown. Anterior wing with four transparent white spots—two between the branches of the median nervure and two (very minute) near the apex. Posterior wing with two central transparent spots.

Underside as above, except that it is red-brown, that the anterior wing has a small pale yellow spot in the cell, and a large yellow spot bordered with dark brown near the inner margin.

Exp. $1\frac{4}{10}$ inch.

Hab. Brazil.

In the collection of Dr. Staudinger.

VI.—*Remarks on Observations by Captain Hutton, Director of the Otago Museum, on Peripatus novæ-zealandiæ**, with Notes on the Structure of the Species. By H. N. MOSELEY, Fellow of Exeter College, Oxford, Naturalist to the 'Challenger' Expedition.

THE above-cited paper by Captain Hutton, which appeared in the November number of this Journal, contains so many

* Ann. & Mag. Nat. Hist., Nov. 1876.