

# LEPIDOPTERA COLLECTED BY W. R. OGILVIE-GRANT ON THE AZORES AND MADEIRA IN 1903.

By W. WARREN, M.A., F.E.S.

WARREN C1505.

1. *Pieris brassicae* Linn. ab. <sup>argyropurpurea</sup> *chariclea* Stph., III. l. p. 17. t. 3. figs. 1, 2.

1 ♂, 1 ♀, Santa Cruz, Graciosa, April 22.

1 ♂, above Calheta, S. Jorge, May 7.

1 ♂, 2 ♀♀, above Cazo do Pico, May 21.

2. *Chrysophanus phlaeas* Linn. ab. *phlaeoides* Stand., in St. & Reb., Cat. 512 n.

1 ♀, Rabacal, Madeira, June 7.

## 3. *Agrotis atlantica* spec. nov.

*Forewing*: red-brown, varying in depth of tint; the ordinary lines obscured across wing, but marked on costa by double dark spots; orbicular stigma round, of ground colour, slightly paler than the cell on each side of it; reniform filled up with grey, darker in lower half; both slightly edged with pale; a slight dark mark on costa before submarginal line, which is followed there by a few grey scales; obscure grey-brown marginal lunules; fringe grey-brown.

*Hindwing*: dull smoky buff, with a black submarginal fascia thinning out towards anal angle; base and inner margin clouded with darker; a grey cell-spot; extreme hindmargin and fringe buff; marginal line broad, reddish.

Underside pale fawn, with a slight reddish tinge; the whole of the forewing, except costal streak and the hindmargin broadly, bronzy dark grey, with the nervules showing pale at the edge; outer line on costa purplish; hindwing with cell-spot and postmedian line purplish; the submarginal fascia slight; fringe pale buff.

Thorax, patagia, and tips of shoulders concolorous with forewing; abdomen smoky grey like inner margin and base of hindwing, the segmental rings and anal segment paler; shoulders, head, and apex of palpi fawn-colour like underside; palpi externally and legs red-brown, with pale scales intermixed; underside of abdomen and the pectus smoky fawn-colour.

Expanse of wings: 52 mm.

A series from—

Reguinho, Terceira, April 6.

Praya, Graciosa, April 29.

Above Calheta, S. Jorge, May 3-9, type.

In shape of wings like *A. pronuba* Linn., and superficially resembling *T. baja* Fab., but distinguished by the smoky buff hindwings.

## 4. *Agrotis c-nigrum* Linn.

A series from—

Reguinho, Terceira, April 5.

Above Calheta, S. Jorge, May 3.

5. *Agrotis pronuba* Linn.

- 1 ♂, above Horta, Fayal, May 24.  
1 ♀, Caso do Pico, May 23.  
2 ♀♀, above Magdalena, Pico, May 17.

6. *Agrotis saucia* Hübn.

A series from —

- Reguinho, Terceira, April 5, 6.  
Above Calheta, S. Jorge, May 3, 4, 7, 9.  
Below Pico, April 15.  
Above Magdalena, Pico, May 17.

7. *Agrotis segetum* Schiff.

- 1 ♂, Reguinho, Terceira, April 5.  
1 ♀, Poiso, Madeira, February 20.

8. *Melanchra granti* spec. nov.

*Forewing*: reddish brown; a dark brown dash from base below median vein; orbicular stigma flattened, elongate, slightly paler, with dark brown edging; the cell before and beyond it darker brown; reniform oblong, quadrate, filled in with white scales edged by dark brown; lines in the single specimen obliterated in the main; the outer line is squarely produced beyond cell, incurved below middle to below inner edge of reniform stigma, then vertical; fringe concolorous, with paler base.

*Hindwing*: paler, with faintly darker cell-mark and dentate postmedian line.

Underside like upperside of hindwing, without markings except cell-spots and postmedian lines.

Head and thorax like forewing; abdomen like hindwing; palpi darker brown.  
Expanse of wings: 38 mm.

- 1 ♂, above Caso do Pico, 1000 ft., May 21.

9. *Leucania unipuncta* Haw

A series from —

- Reguinho, Terceira, April 5, 6, 9.  
Sta. Cruz, Graciosa, April 22.  
Praia, Graciosa, April 29.  
Above Calheta, S. Jorge, May 3, 4.  
Above Sta. Cruz, Flores, April 16, 17.  
Above Horta, Fayal, May 24.  
Above Caso do Pico, May 21.  
Above Magdalena, Pico, May 17.

10. *Brotolomia meticulosa* Linn.

A series from —

- Reguinho, Terceira, April 5, 6.  
Praia, Graciosa, April 29.  
Above Calheta, S. Jorge, May 3, 4.

11. *Brotolomia periculosa* Guen. ab. *interrupta* nov.

In his paper on the Lepidoptera of Madeira in the *Transactions of the Entomological Society of London* for 1891, p. 208, Mr. Baker quotes this North American species and the aberration *brunnea* as occurring there. The type-form probably occurs also in the Azores; but Mr. Grant brought back only an aberration, for which, as differing from the form *brunnea* Grote, I propose the name *interrupta*. In this the dark central fascia containing the two stigmata, which in *brunnea* is entire and continued through to inner margin, is abruptly cut off close below vein 2, only the limiting lines remaining to mark its course, and these in the ♀♀ only. The prevailing tint in the ♂♂ is much redder than in the ♀♀, and the markings more or less obliterated.

2 ♂♂, 2 ♀♀, May 1903, above Calheta, S. Jorge.

12. *Thalpochara ostrina* Hübner.

A series from —

Ponta Delgada, S. Miguel, March 26.

Santa Cruz, Graciosa, April 22.

Above Magdalena, Pico, May 19.

13. *Hypena obsitalis* Hübner.

A series from —

Reguinho, Terceira, April 6.

Santa Cruz, Graciosa, April 22.

Praya, Graciosa, April 29.

Above Casado do Pico, May 21.

14. *Microloxia nubigena* Wollast.

11 ♂♂, Rabagal, Madeira, June 6.

15. *Cosymbia maderensis* ab. *irrufata* nov.

The type-form of this species was described by Mr. Baker (*Tr. E. S.* 1891 p. 216) as "finely and densely irrorated with rough pinkish scales." Of 12 examples taken by Mr. Ogilvie-Grant, at Rabagal, Madeira, in June 1903, 5 ♂♂ agree with the type-form. The remaining 7 (6 ♂♂, 1 ♀) have no red tint whatever; they are simply pale ochreous dusted with grey, and the cell-spots in most cases are strongly edged or quite filled up with deep black. The dots on veins marking the submarginal and marginal lines are black and conspicuous, and the basal line is also marked by three black spots. The dark median shade is well marked in the ♀, but hardly expressed in the ♂♂.

Mr. Baker gave 26 mm. as the expanse of wings; and with this the ♀ agrees, but the ♂♂ are larger, reaching 30 mm.

16. *Cosymbia pupillaria* Hübner.

*Cyeloophora agorensis*

A series from —

Reguinho, Terceira, April 6.

Sta. Cruz, Graciosa, April 22.

Continued ⇒

Caldeira, Graciosa, April 27.  
 Above Calheta, S. Jorge, May 2-10.  
 Above Caso do Pico, May 21.  
 Central Fayal, May 26.  
 Caldeira, Fayal, May 27.

17. *Sterrha rufaria* ab. *maderae* Baker.

1 ♂. Redacal, Madeira, June 6.

18. *Coenocalpe custodiata*.

*Eub. ca custodiata* Guen., *Phet.* ii. p. 491 ♂.

Among the insects collected in the Azores by Mr. Grant are large numbers of this North American species, previously described from Madeira by Wollaston as *Coremia latirostris* Woll. In Staudinger and Rebel's catalogue *latirostris* Woll. and *lusciniata* Zell., both names for the American insect, are rightly made synonyms of *centrostigma*, which name is retained for the species, but Guenée's name *custodiata* for his Californian specimens really antedates Wollaston's by a year.

A series from—

Almagreira, Sta. Maria, February 27.  
 S. Pedro, Sta. Maria, March 2.  
 Ponta Delgada, S. Miguel, March 26.  
 Reguinho, Terceira, April 6.  
 Sta. Cruz, Graciosa, April 22.  
 Praya, Graciosa, April 29.  
 Above Calheta, S. Jorge, May 5.  
 Below Pico, May 15.  
 Above Magdalena, Pico, May 19.  
 Above Horta, Fayal, May 24-28.

19. *Coenocalpe obstipata* Fab.

A long series from—

Almagreira, Sta. Maria, February 27.  
 S. Pedro, Sta. Maria, March 2.  
 Lamela, S. Miguel, March 8.  
 Furnas, S. Miguel, March 14-18.  
 Sete Círculos, S. Miguel, March 22.  
 Reguinho, Terceira, April 6.  
 Flores, April 19.  
 Sta. Cruz, Graciosa, April 22.  
 Praya, Graciosa, April 29.  
 Above Calheta, S. Jorge, May 2-10.  
 Above Caso do Pico, May 21.  
 Above Horta, Fayal, May 24-28.  
 Central Fayal, May 26, 27.  
 Caldeira, Fayal, May 26.

20. *Xanthorhoe inaequata* spec. nov.

*♂. Forewing*: fuscous-drab, smooth; the central fascia darker, blackish; the basal patch and this fascia are both edged with wavy whitish lines; and both alike as well as the intervening band and the broad marginal area are traversed by parallel wavy dark lines, as in *Camptogramma*; a small dark cell-spot; submarginal line very fine, whitish; pairs of dark marginal dots; fringe concolorous.

*Hindwing*: without basal markings, and all the others obscure; fringe whitish. Underside grey, darker to outer line, which is whitish.

Head, thorax, and abdomen smooth, fuscous.

♀ larger and longer, always with a rufous tinge: in some instances altogether rufous with the central fascia coloured like the rest.

Expanse of wings: ♂ 30 mm.; ♀ 34 mm.

In numbers from various islands of the Azores.

*Type* from above Calheta, S. Jorge, May 7.

21. *Xanthorhoe rupicola* Wollast

8 ♂♂, 2♀♀. Rabacal, Madeira, June 6.

22. *Chloroclystis* spec. ?

1 ♂, Rabacal, Madeira, June 6.

23. *Tephroclystia latipennis* spec. nov.

*Forewing*: grey-brown, dusted with dark and pale scales; the veins dotted blackish and whitish; costa with grey streaks, oblique outwards before, and inwards beyond middle; the three principal lines double and thick, pale brown with a grey line in middle; the inner very obscure, but apparently bent in middle; the second containing the dark cell-spot; the third outcurved from 6 to 2 and pale grey; submarginal line whitish, dentate, with black teeth between veins; a black marginal line interrupted at the ends of the veins by pale brown spots; fringe dark grey.

*Hindwing*: dark grey towards inner and hind margins, whitish towards costa, without any brown colouring; the outer lines and cell-spot dark.

Underside pale ochreous, in the forewing overlaid with fuscous; cell-spot black; the lines marked black on costa; the outer lines across the wing; hindwing, with black cell-spot and outer lines.

Head, thorax, and dorsum grey-brown; abdomen beneath ochreous; palpi dark fuscous.

Expanse of wings: 26 mm.

1 ♀ from Rabacal, Madeira, 3600 ft., June 8th, 1903.

24. *Tephroclystia ogilviata* spec. nov.

*Forewing*: brown mixed with paler scales, without distinct markings; traces of a darker central area edged inwardly by a deeper nearly vertical band, and outwardly by an oblique one; also an indistinct submarginal shade.

*Hindwing*: the same, with the outer band only.

Underside paler, with the markings rather more definite, and traces of an obscure cell-spot.

Face and palpi dark brown; thorax and abdomen like wings.

Expanse of wings: 16 mm.

1 ♂ from Central Fayal, Azores, 2500 ft., May 1903.

Wings narrow and elongate. A species standing by itself; it is unfortunate that only one specimen, and that worn, should have been secured of this distinct species. ♀

25. *Scotorithra fortunata* Blachier.

A series from—

San Pedro, Sta. Maria, March 2.

Lameiro, S. Miguel, March 8-10.

Furnas, S. Miguel, March 14-18.

Reguinho, Terceira, April 6.

Sta. Cruz, Graciosa, April 22.

Rabaçal, Madeira, June 6.

26. *Pyralis farinalis* Linn.

2 ♂♂, above Horta, Fayal, May 24.

27. *Udea ferrugalis* Hübn.

A series from—

San Pedro, Sta. Maria, March 2, 3.

Ponta Delgada, S. Miguel, March 26.

Reguinho, Terceira, April 6-8.

Sta. Cruz, Flores, April 19.

Sta. Cruz, Graciosa, April 22.

Praya, Graciosa, April 29.

Above Calhera, S. Jorge, May 7.

Below Pico, May 15.

Above Magdalena, Pico, May 13-19.

Above Capô do Pico, May 21.

Above Horta, Fayal, May 24.

28. *Udea numeralis* Hübn.

1 ♂, 1 ♀, Furnas, S. Miguel, March 14-18.

1 ♂, Reguinho, Terceira, April 6.

29. *Scoparia aequipennalis* spec. nov.

*Forming*: almost wholly suffused with blackish fuscous: the two lines whitish, the first slightly oblique outwards, followed by a darker shade containing the orbicular and claviform stigmata; the outer curved parallel to hindmargin, somewhat crenulate and indented above and below middle, preceded by a dark



shade containing the reniform stigma; the stigmata sometimes slightly filled up with dark ochreous; two slight white patches in the marginal space; fringe grey, dark fuscous at base, beyond a crenulate white line preceded by a black one.

*Hindwing*: wholly dark fuscous.

Underside glossy dark fuscous; hindwing rather paler, with traces of a dark submarginal line.

Head, thorax, and abdomen dark fuscous; lower half of face whitish.

Expanse of wings: 16 mm.

Nearest to some of the St. Helena species.

A series from—

Ponta Delgada, S. Miguel, March 26.

Crater above Reguinho, Terceira, April 6; *type*.

Santa Cruz, Flores, April 19.

Caldeira, Graciosa, April 27.

Above Calheta, S. Jorge, May 2-9.

Below Pico, May 15.

Central Fayal, May 25.

Above Horta, Fayal, May 26.

### 30. *Scoparia angustea* Stph.

A small series from—

Reguinho, Terceira, April 6.

Crater above Reguinho.

Caldeira, Graciosa, April 26-29.

Above Calheta, S. Jorge, May 7, 8.

Above Horta, Fayal, May 24.

### 31. *Scoparia coecimaculalis* spec. nov.

*Forewing*: brownish grey, with fuscous speckling and markings; a black dash accompanied by some dark scales at base; first line waved and slightly oblique outwards, followed by the blackish orbicular and claviform stigmata; the reniform s-shaped, edged with black; outer line crenulate, parallel to hindmargin, indented below costa; it is followed, as the inner line is preceded, by a paler brownish grey space; the dark submarginal cloud constricted or interrupted in middle; a marginal row of black spots; fringe like wings, with a dark middle line.

*Hindwing*: hyaline whitish, tinged with grey at apex, with a grey cell-mark; a submarginal line marked mainly by three grey spots, one at costa and on inner margin, and a third beyond cell; sometimes a fourth is visible on the submedian fold, and another on margin beyond cell.

Underside of forewing brownish grey; the outer line blackish, and the stigmata more or less visible; hindwing white, with the spots blackish.

Head, thorax, and abdomen brownish grey, speckled with darker.

Expanse of wings: 19 mm.

The description was made from the ♀, the ♂ not being in so good condition.

1 ♂, 1 ♀, above Calheta, S. Jorge, May 7, 8; *type*.

1 ♀, Caldeira, Graciosa, April 26.

32. *Scoparia frequentella* Stn.

A small series from—

Almagreira, Sta. Maria, February 27.

San Pedro, Sta. Maria, March 2, 3.

Sta. Cruz, Flores, April 19.

Caldeira, Graciosa, April 27.

33. *Scoparia interlinealis* spec. nov. and ab. *pallidimarginalis* nov.

*Forewing*: narrow; ochreous grey, with darker grey markings; the dark tints have a tendency to form dark lines between the veins, especially towards the hind-margin, while the costa and inner margin are often broadly ochreous to near hind-margin: in consequence the usual transverse markings are rarely clear: when visible the inner line lining the basal area is acutely angled in middle, and the pale oblique outer and submarginal lines are sometimes visible across the dark linear shades; the stigmata are reduced to flattened black blotches, the reniform sometimes appearing to be broken up into 3 or 4 black dots; fringe pale with a dark middle line.

*Hindwing*: shining whitish grey, rather darker along margin.

Underside of forewing shining dark grey with the costal margin ochreous; of hindwing whitish.

Palpi whitish above, black below; head and thorax dark grey; abdomen ochreous.

Expanse of wings: 16 mm.

In one of the ♂♂ the whole forewing is dark brownish fuscous, narrowing from base to margin; the costal and inner-marginal streaks are broad and ochreous, and the fringe also is glossy ochreous; the extremities of the two lines appear as slight dark streaks on the pale margins. For this form, which looks at first quite different, I propose the name *pallidimarginalis*.

A series from—

Furnas, S. Miguel, March 14-18.

Sere Cidades, S. Miguel, March 23.

Crater above Reguinho, Terceira, April 6.

Sta. Cruz, Graciosa, April 22.

1 ♀, Caldeira, Graciosa, April 26: *type*.

Above Calheta, S. Jorge, May 5.

34. *Scoparia scoriella* Wollast.

3 ♂♂, 2 ♀♀, Rabagal, Madeira, June 7.

35. *Scoparia semiamplalis* spec. nov.

*Forewing*: whitish; the markings blackish and distinct: a blackish cloud at base of costa: the whole middle space between the two lines blackish, almost obliterating the stigmata; the submarginal shade restricted to two triangular blotches, one on costa, the other on inner margin; a dentate black marginal line



with a few black scales at middle ; fringe whitish, with the base thickly mottled with blackish.

*Hindwing* : greyish white, semi-hyaline, darker grey towards apex, with a grey cell-mark ; fringe white with a grey line.

Underside of forewing dark grey with a white costal mark beyond outer line ; of hindwing pale grey ; fringe whitish with a dark line.

Head and thorax dark grey ; abdomen paler with anal tuft whitish.

Expanse of wings : 16 mm.

1 ♂, Reguinho, Terceira, April 6.

This might have been referred to *S. stenota* Wollast. as a dark aberration, but the hindwing is very wide and rounded, while that of *stenota* is narrow and pointed at apex.

### 36. *Scoparia stenota* Wollast.

1 ♂, Reguinho, Terceira, April 6.

1 ♂, above Calheta, S. Jorge, May 2.

## NOTE ON THE ELAND OF THE WHITE NILE.

BY THE HON. WALTER ROTHSCCHILD, PH.D.

(Plate XII.)

SOME three years ago I obtained two skulls with horns of an Eland from the Bal el Ghazal, and I was at once struck by their gigantic size, as compared to South African specimens. They fully confirmed Henglin's diagnosis of his *Oreos gigas*. Although four or five other skulls and horns were obtained, it is only within the last few months that scalps and head-skins have been sent home. To my astonishment the Eland in question turns out to be very close to, if not identical with, the Derbian Eland, *Taurotragus derbianus*, of Senegambia. Until we can compare recently killed West African *T. derbianus* with White Nile specimens, it is impossible to say definitely if they are identical. Henglin's Eland will therefore at present stand as *Taurotragus derbianus gigas*, though the individual differences in the three head-skins I have seen are so great that I personally have no doubt that Henglin's Eland is true *Taurotragus derbianus*. The plate is from a specimen now in the Cairo Turf Club.