

## Distributional notes on Ecuadorian Saturniidae

(Lepidoptera)

by

FRANCISCO PIÑAS RUBIO & LUIGI RACHELI<sup>1</sup>

Some distributional and altitudinal data of 33 Ecuadorian Saturniidae are reported, including additional records of little known species such as *Arsenura sylla sylla* (CRAMER, 1779), *Titaea timur* (FASSEL, 1915), *Copiopteryx jehovah* (STRECKER, 1874), *Grammopelta lineata* (SCHAUS, 1906), *Eacles adoxa* JORDAN, 1910, *Periga angulosa* (LEMAIRE, 1972), *Automeris caucensis* LEMAIRES, 1976, *Automerina vala* (KIRBY, 1871), *Gamelioides elainae* (LEMAIRE, 1967), *Pseudodirphia biremis* (DRAUDT, 1930) and *Copaxa expandens brunneocaeca* LEMAIRES, 1982.

*Dirphia radiata* DOGNIN, 1916 is reported for the first time for Ecuador. With this new record the Ecuadorian Saturniid fauna counts 275 species (see LEMAIRES & VENEDICTOFF, 1989; LEMAIRES & TERRAL, 1994; RACHELI, 1995, 1997; RACHELI & RACHELI, 1997, 1998).

All the specimens reported below are in the Pontificia Universidad Católica, Quito, Ecuador, most collected by F. PIÑAS otherwise stated.

### Arsenurinae

#### *Arsenura armida* (CRAMER, 1779)

1 ♂, Morona Santiago, Gualaquiza, 1600 m, 27.VII.95; 1 ♂, Morona Santiago, Plan Milagro, 29.IV.95; 1 ♂, Napo, Estacion Biologica at Yasuní, 350 m, 29.IX.95; 1 ♂, same data, 31.III.97, G. ONORE leg., 1 ♂, same data, 18.II.97, G. ONORE leg.

#### *Arsenura archianassa archianassa* DRAUDT, 1930

2 ♂♂, Pichincha, Alluriquin, 840 m, 30.XII.95; 3 ♂♂, same data, 20.II.95; 1 ♂, same data, 26.XII.96; 2 ♂♂, same data, 21.XII.95; 3 ♂♂, Pichincha, Tandapi, 1460 m, 3.I.97; 1 ♂, Esmeraldas, Lita, 19.II.96.

#### *Arsenura ciocolatina* DRAUDT, 1930

1 ♂, 1 ♀, Napo, Estacion Biologica at Yasuní, 350 m, 20.IX.96; 1 ♂, Pastaza, Loracachi, 20.II.96.

#### *Arsenura rebeli* GSCHWANDNER, 1920

1 ♂, Morona Santiago, Plan Milagro, 25.II.95; 1 ♂, same data, 24.V.95.

#### *Arsenura sylla sylla* (CRAMER, 1779)

2 ♂♂, Napo, Estacion Biologica at Yasuní, 350 m, 31.III.97 G. ONORE leg.

A little known species. It was reported only for Lumbaquí, Sucumbios province (LEMAIRES & VENEDICTOFF, 1989) and Rio Llandia, Pastaza province (RACHELI, in press).

1 8th contribution to the knowledge of Saturniidae of Ecuador.

*Arsenura batesii batesii* (FELDER & ROGENHOFER, 1874)

1 ♂, Napo, Estacion Biologica at Yasuní, 350 m, 15.XII.95; 1 ♂, same data, 29.IX.95; 1 ♂, same data, 18.II.97 G. ONORE leg.; 1 ♂, Pastaza, Loracachi, 20.II.96.

*Arsenura batesii arcaeii* DRUCE, 1886

1 ♂, Pichincha, Alluriquin, 840 m, 21.XII.95; 1 ♂, same data, 20.I.96; 3 ♂♂, Pichincha, Tandapi, 1460 m, 3.I.97; 1 ♂, Pichincha, Tinalandia, 750 m, 15.VI.96; 1 ♂, Esmeraldas, Quinindé (= Rosa Zarate), 550 m, 9.III.97

*Arsenura ponderosa ponderosa* ROTHSCHILD, 1895

1 ♂, Napo, Estacion Biologica at Yasuní, 350 m, 15.XI.96, G. ONORE leg.; 1 ♂, same data, 31.III.97, G. ONORE leg.; 1 ♂, same data, 29.IX.95.

The range of the nominotypical subspecies is the western Amazonia while the ssp. *guianensis* (ROTHSCHILD, 1907) is restricted to the Guyanan subregion. In Ecuador, *Arsenura p. ponderosa* was known for four localities reported by LEMAIRE & VENEDICTOFF (1989).

*Arsenura cymonia* (ROTHSCHILD, 1907)

1 ♀, Morona Santiago, Plan Milagro, 25.II.95.

A typical Andean species distributed between 1500 to 2100 m.

*Dysdaemonia boreas* (CRAMER, 1775)

1 ♂, Sucumbios, Reventador, 20.II.96; 3 ♂♂, Pichincha, Tinalandia, 750 m, 15.VI.96; 1 ♂, Napo, Estacion Biologica at Yasuní, 350 m, 20.IX.96; 1 ♂, same data, 15.XI.96; 1 ♂, same data, 18.II.97, G. ONORE leg.; 1 ♂, same data, 31.III.97, G. ONORE leg.; 1 ♀, Pichincha, Alluriquin, 840 m, 30.XII.95; 1 ♂, Esmeraldas, Quinindé (= Rosa Zarate), Quininde, 550 m, 9.III.97.

*Titaea tamerlan amazonensis* LEMAIRE, 1980

1 ♂, Napo, Estacion Biologica at Yasuní, 350 m, 20.IX.96; 1 ♂, same data, 15.IX.95; 1 ♀, same data, 31.III.97, G. ONORE leg.

*Titaea tamerlan nobilis* (SCHAUS, 1912)

1 ♂, Esmeraldas, Lita, 19.II.96, P. ARMAND leg.; 3 ♂♂, Esmeraldas, Quinindé (= Rosa Zarate), 550 m, 9.III.97.

*Titaea lemoulti* (SCHAUS, 1905)

1 ♂, Napo, Estacion Biologica at Yasuní, 350 m, 18.II.96; 1 ♂, Pastaza, Montalvo, 5.X.83.

*Titaea timur* (FASSEL, 1915)

1 ♂, Napo, Estacion Biologica at Yasuní, 350 m, 15.IX.95.

A scarce species known only for four localities (see LEMAIRE & VENEDICTOFF, 1989; RACHELI, 1995).

*Rhescyntis hippodamia hippodamia* (CRAMER, 1777)

3 ♂♂, Napo, Estacion Biologica at Yasuní, 350 m, 15.IX.96; 1 ♂, same data, 18.II.96; 3 ♂♂, same data, 18.II.97, G. ONORE leg., 1 ♂, same data, 29.IX.95; 2 ♂♂, same data, 15.XI.96.

*Rhescyntis hermes* (ROTHSCHILD, 1907)

1 ♂, Napo, Estacion Biologica at Yasuní, 350 m, 31.III.97, G. ONORE leg.; 1 ♂, same data, 18.II.97, G. ONORE leg.

*Copiopteryx semiramis semiramis* (CRAMER, 1775)

1 ♂, Napo, Estacion Biologica at Yasuní, 350 m, 31.III.97, G. ONORE leg.

*Copiopteryx semiramis andensis* (LEMAIRE, 1974)

1 ♂, Pichincha, Alluriquin, 840 m, 26.XII.96, G. ONORE leg; 1 ♂, El Oro, Uzchurumi, 28.I.95.

*Copiopteryx jehovah* (STRECKER, 1874)

1 ♂, Sucumbios, Shushunqui, 15.XI.96, D. SANCHEZ leg.

This is a rare species in Ecuador known on three records only (see LEMAIRE & VENEDICTOFF, 1989).

*Grammopelta lineata* (SCHAUS, 1906)

2 ♂♂, Esmeraldas, Lita, 19.XII.96, P. ARMAND leg.

A scarce species distributed on both sides of the Andes. This is the fifth Ecuadorian records after those of LEMAIRE & VENEDICTOFF (1989) and RACHELI (in press).

## **Ceratocampinae**

*Eacles adoxa* JORDAN, 1910

1 ♂, Sucumbios, El Reventador, 1400 m, 20.II.96.

A rare species reported by LEMAIRE & VENEDICTOFF (1989) only for Sucumbios, Lumbaquí and Morona Santiago, Limón km 16–17.

*Adelowalkeria eugenia* (DRUCE, 1904)

1 ♂, Napo, Estacion Biologica at Yasuní, 350 m, 18.II.96.

A rare species reported by LEMAIRE & VENEDICTOFF (1989) only for Morona Santiago, Sangay.

*Adelowalkeria plateada* (SCHAUS, 1905)

1 ♂, Napo, Estacion Biologica at Yasuní, 350 m, 18.II.96.

A scarce species reported by LEMAIRE & VENEDICTOFF (1989) only for Sucumbios, Lumbaquí and Napo, Misahualli.

## Hemileucinae

### *Periga angulosa* LEMAIRE, 1972

1 ♂, Napo, Estacion Biologica at Yasuní, 350 m, 15.XI.96.

An Amazonian species reported by LEMAIRE & VENEDICTOFF (1989) only for Morona Santiago, Limón km 16–17.

### *Automeris caucensis* LEMAIRE, 1976

1 ♂, Pichincha, Pululahua, 3000 m, 3.IX.1996; 1 ♂, Napo, Cosanga, 2000 m, 10.VIII.96

A typical Andean species distributed on both sides of the Andes.

### *Erythromeris obscurior* LEMAIRE, 1975

1 ♂, Napo, Oyacachi, 2700–2900 m, 18.VII.1996.

A typical andean species distributed at high elevation on both sides of the Andes. It was reported by LEMAIRE & VENEDICTOFF (1989) for three localities.

### *Automerina vala* (KIRBY, 1871)

1 ♂, Napo, Estacion Biologica at Yasuní, 350 m, 31.III.1997, G. ONORE leg.; 1 ♂, same data, 18.II.1997, G. ONORE leg.

It was reported for the first time for Ecuador by RACHELI & RACHELI (1997). This species is here confirmed with two additional records.

### *Gamelioides elinae* (LEMAIRE, 1967)

1 ♀, Napo, Oyacachi, 2700–2900 m, 18.VII.96.

This the fourth record of this endemic Ecuadorian species.

### *Dirphia radiata* DOGNIN, 1916

1 ♂, Napo, Estacion Biologica at Yasuní, 350 m, 20.IX.96.

It is here reported for the first time for Ecuador.

### *Pseudodirphia biremis* (DRAUDT, 1930)

1 ♂, Morona Santiago, Plan Milagro 25.II.95; 1 ♂, Loja Prov., Loja, Bosque Podocarpus, 22.V.1996, F. SALAZAR leg.

LEMAIRE & VENEDICTOFF (1989) listed this species only on the basis of "Macas" record by DRAUDT (1930). This species was described on two females from "Santa Catarina" (Brazil) and from "Macas" Subsequently, LEMAIRE & JANZEN (1996) report as correct only the locality "Macas" and restrict the range of this species from Colombia to southern Ecuador.

## Saturniinae

*Copaxa expandens brunneocaeca* LEMAIRE, 1982

1 ♂, Morona Santiago, Plan Milagro, 24.III.95.

It was known only for the type locality, Morona Santiago, Santa Rosa (see LEMAIRE, 1982; LEMAIRE & VENEDICTOFF, 1989). This the second Ecuadorian record.

Peruvian specimens were recently examined in the collection of S. NAUMANN (Berlin), the range of this subspecies is then extended from Ecuador to Southern Peru.

*Copaxa medea* (MAASSEN, 1890)

1 ♂, Cañar prov., Cañar, La Carboneria, 2850 m, 18–19.I.1996, F. SALAZAR leg.

## Acknowledgments

We are grateful to Prof. GIOVANNI ONORE (Quito) for his assistance. The junior author expresses his thanks also to Dr. S. NAUMANN (Berlin).

## References

- DRAUDT, M. (1929–1930): 12 Famille: Saturnidae [sic]. In SEITZ, A.: Die Gross-Schmetterlinge der Erde, Die Amerikanischen Spinner und Schwärmer VI: 713–827, pls. 101–137 et 142. – A. Kernen, Stuttgart.
- LEMAIRE, C. (1982): Vingt-huit Saturniidae néotropicaux inédites [Lepidoptera]. – *Annls Soc. ent. Fr. (N. S.)* **18** (1): 55–88.
- LEMAIRE, C. & D. H. JANZEN (1996): A new *Pseudodirphia* from Costa Rica and Panama (Lepidoptera: Saturniidae: Hemileucinae). – *Trop. Lep.* **7** (1): 60–62.
- LEMAIRE, C. & G. TERRAL (1994): II. Un *Periphoba* inédit de l'Equateur. – *Nachr. entomol. Ver. Apollo, N. F.* **15** (3): 403–408.
- LEMAIRE, C. & N. VENEDICTOFF (1989): Catalogue and biogeography of the Lepidoptera of Ecuador. I Saturniidae. With a description of a new species of *Meroleuca* PACKARD. – *Bull. Allyn Mus.* **129**: 1–60.
- RACHELI, L. (1995): Contributo alla conoscenza dei Saturnidi dell' Ecuador (Lepidoptera, Saturniidae). – *Fragm. entomol.* **26** (2): 253–258.
- RACHELI, L. (1997): On the second known specimen of *Rachesa adusta* (ROTHSCHILD, 1907) from Ecuador (Lepidoptera: Saturniidae, Ceratocampinae). – *Atalanta* **28** (1–2): 147–148.
- RACHELI, L. (in press): Additions and corrections to the lists of Ecuadorian Saturniidae (Lepidoptera, Saturniidae). – *Atalanta*, Würzburg.
- RACHELI, L. & T. RACHELI (1997): Further notes on the Saturniidae of Ecuador (Lepidoptera, Saturniidae). – *Nachr. entomol. Ver. Apollo, N.F.* **18** (2–3): 173–180.
- RACHELI, T. & L. RACHELI (1998): Lepidoptera diversity of an Ecuadorian lowland rain forest. – *Abst. XIth European Congr. Lepid.*, Malle, Belgium.

## Addresses of the authors:

P. FRANCISCO PIÑAS RUBIO S. J.  
Pontificia Universidad Católica  
Residencia de Profesores Jesuitas  
Apartado 2184, Quito, Ecuador

LUIGI RACHELI  
Via Fara Sabina, 1  
I-00199 Rome, Italy

# ZOBODAT - [www.zobodat.at](http://www.zobodat.at)

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Neue Entomologische Nachrichten](#)

Jahr/Year: 1998

Band/Volume: [41](#)

Autor(en)/Author(s): Rubio P. Francisco Pinas, Racheli Luigi

Artikel/Article: [Distributional notes on Ecuadorian Saturniidae \(Lepidoptera\) 157-161](#)