

# Lepidoptera on flowering plants of La Mancha, Veracruz, Mexico

# 1

Cristian A. Martínez Adriano<sup>1</sup>, Eduardo G. Adriano Espinoza<sup>2</sup>, Armando Aguirre Jaimes<sup>1</sup>, and Cecilia Díaz Castelazo<sup>1</sup>  
<sup>1</sup>Instituto de Ecología A.C., Red de Interacciones Multitróficas, <sup>2</sup>Preparatoria en Línea – SEP.

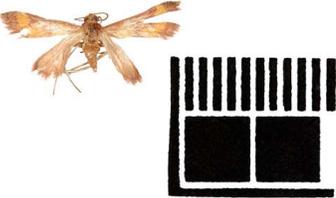
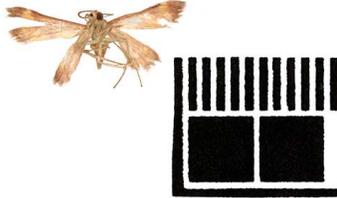
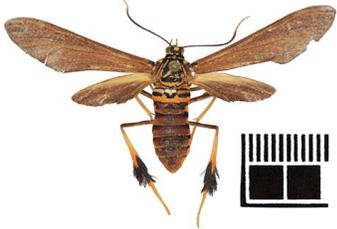
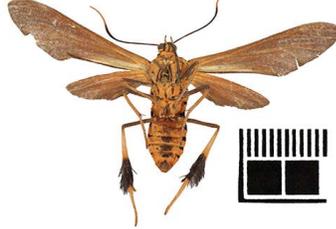
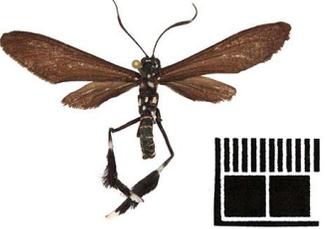
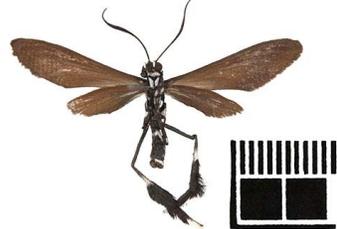
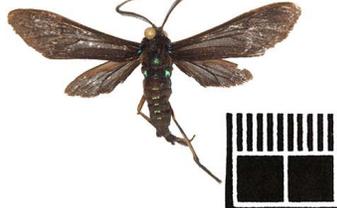
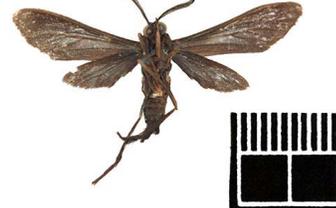
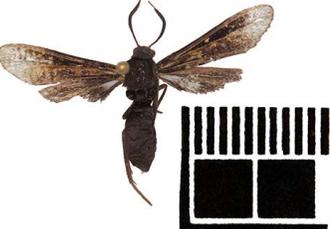
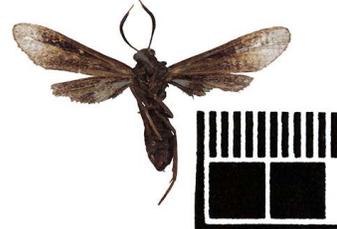
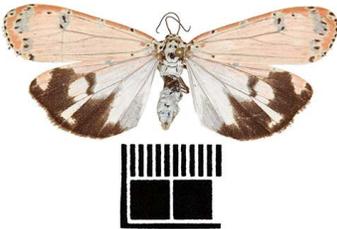
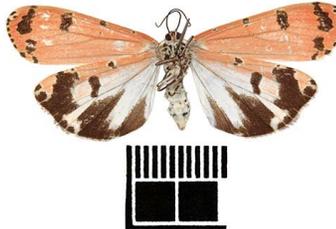
Photos: Cristian Adrian Martínez Adriano. Produced by: Cristian Adrian Martínez Adriano and Eduardo Guadalupe Adriano Espinoza, with support from Connie Keller and Andrew Mellon Foundation. © Cristian Adrian Martínez Adriano [cristian.martinez.cama@gmail.com] and other authors. Thanks to: Instituto de Ecología, A. C., Centro de Investigaciones Costeras La Mancha and their staff. Special thanks to E. Zaragoza-Quintana, R. Quintana-Bustamante and J. Sánchez-Huerta for field assistance. Eduardo Guadalupe Adriano Espinoza edited the final version of all butterfly photos.

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La Mancha is a natural reserve area managed by Instituto de Ecología, A. C. The reserve comprises several vegetation types in only 82.29 ha. In this natural reserve, butterflies are very common and they are an important insect group as flower visitors. The butterfly species in this guide were collected from six vegetation types distributed in this tropical coastal ecosystem. The aim of this guide is to provide knowledge about the diversity of butterflies to local people, for educational proposes and ecotourism. The images in this field guide include the dorsal and ventral position of each butterfly species with 1-cm scale.

**Research paper associated with this field guide:** Martínez-Adriano CA, Díaz-Castelazo C, Aguirre-Jaimes A. (2018) Flower-mediated plant-butterfly interactions in an heterogeneous tropical coastal ecosystem. PeerJ 6:e5493 <https://doi.org/10.7717/peerj.5493>



			
<b>1 <i>Pyrausta tyralis</i> (Guenée, 1854) CRAMBIDAE</b>		<b>2 <i>Horama oedippus</i> (Boisduval, 1870) EREBIDAE</b>	
			
<b>3 <i>Horama plumipes</i> (Drury, 1773) EREBIDAE</b>		<b>4 <i>Horama</i> sp. EREBIDAE</b>	
			
<b>5 <i>Macrocneme</i> sp. EREBIDAE</b>		<b>6 <i>Utetheisa ornatrix</i> (Linnaeus, 1758) EREBIDAE</b>	

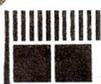
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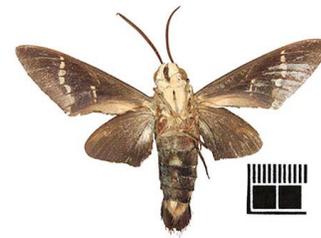
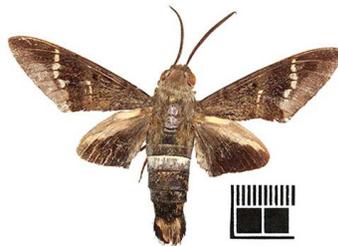
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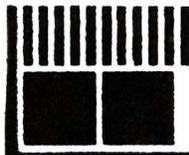
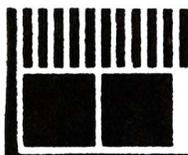
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7 *Melanchroia chephise* (Stoll, 1782)  
**GEOMETRIDAE**



8 *Aellopos titan* (Cramer, 1777)  
**SPHINGIDAE**



9 Polilla12  
**MICROLEPIDOPTERA**



10 *Antigonus erosus* (Hübner, [1812])  
**HESPERIIDAE**



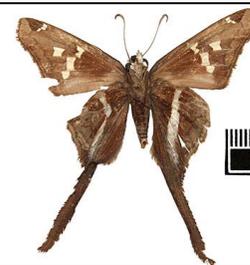
11 *Antigonus nearchus* (Latreille, 1817)  
**HESPERIIDAE**



12 *Astraptes fulgerator azul* (Reakirt, [1867])  
**HESPERIIDAE**



13 *Calpodex ethlius* (Stoll, 1782)  
**HESPERIIDAE**



14 *Chioides albofasciatus* (Hewitson, 1867)  
**HESPERIIDAE**



15 *Cogia calchas* (Herrich-Schäffer, 1869)  
**HESPERIIDAE**



16 *Cogia calchas* (Herrich-Schäffer, 1869)  
**HESPERIIDAE**

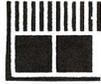
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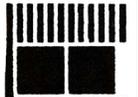
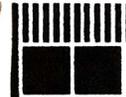
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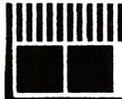
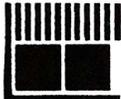
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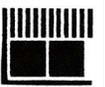
17 *Cogia calchas* (Herrich-Schäffer, 1869)  
HESPERIIDAE



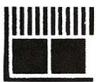
18 *Corticea lysias lysias* (Plötz, 1883)  
HESPERIIDAE



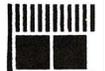
19 *Corticea lysias lysias* (Plötz, 1883)  
HESPERIIDAE



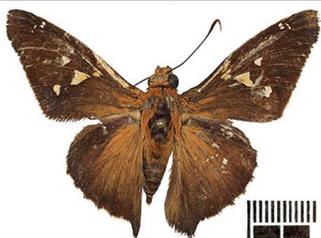
20 *Cycloglypha thrasibulus thrasibulus* (Fabricius, 1793)  
HESPERIIDAE



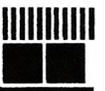
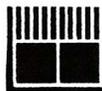
21 *Cycloglypha thrasibulus thrasibulus* (Fabricius, 1793)  
HESPERIIDAE



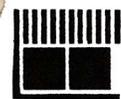
22 *Cyclosemia anastomosis* (Mabille, 1878)  
HESPERIIDAE



23 *Epargyreus spina spina* (Evans, 1952)  
HESPERIIDAE



24 *Heliopetes arsalte* (Linnaeus, 1758)  
HESPERIIDAE



25 *Heliopetes macaira macaira* (Reakirt, [1867])  
HESPERIIDAE



26 *Heliopyrgus sublinea* (Schaus, 1902)  
HESPERIIDAE

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27 *Hylephila phyleus phyleus* (Drury, 1773)  
HESPERIIDAE

28 *Lerema liris* Evans, 1955  
HESPERIIDAE



29 *Lerodea eufala eufala* (W. H. Edwards, 1869)  
HESPERIIDAE

30 *Mylon pelopidas* (Fabricius, 1793)  
HESPERIIDAE



31 *Mylon pelopidas* (Fabricius, 1793)  
HESPERIIDAE

32 *Nisoniades godma* (Evans, 1953)  
HESPERIIDAE



33 *Nisoniades macarius* (Herrich-Schäffer, 1870)  
HESPERIIDAE

34 *Panoquina hecebolus* (Scudder, 1872)  
HESPERIIDAE



35 *Panoquina panoquinoides panoquinoides* (Skinner, 1891)  
HESPERIIDAE

36 *Panoquina panoquinoides panoquinoides* (Skinner, 1891)  
HESPERIIDAE

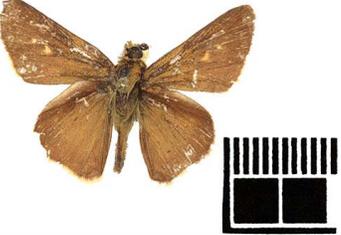
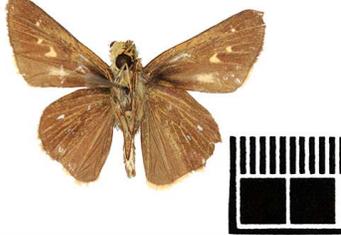
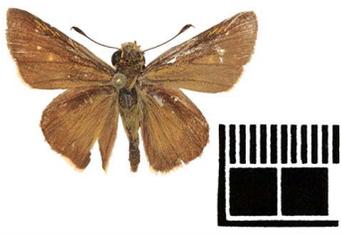
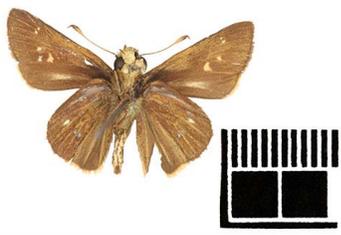
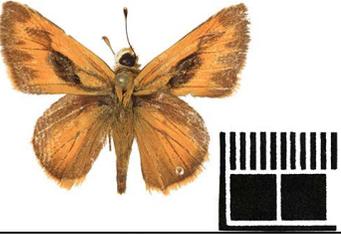
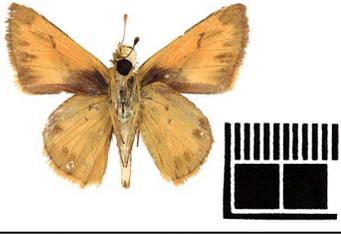
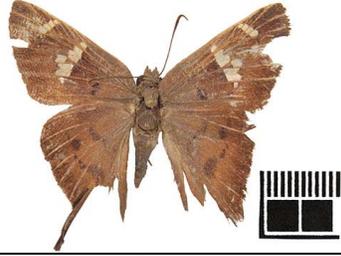
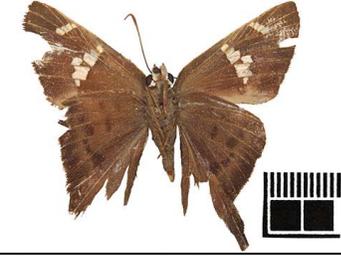
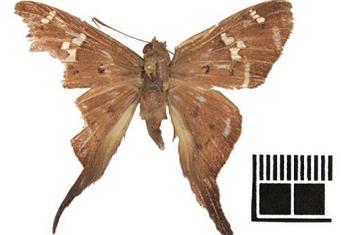
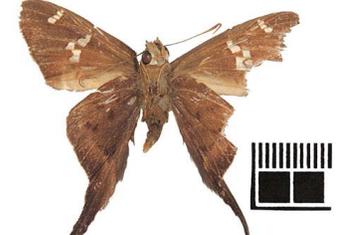
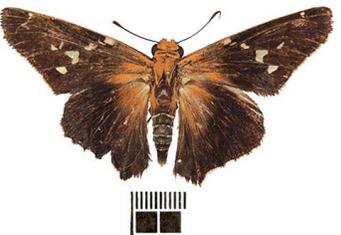
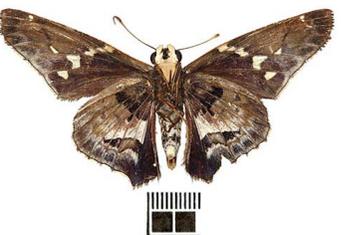
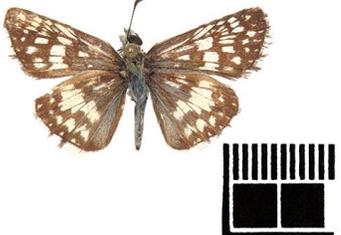
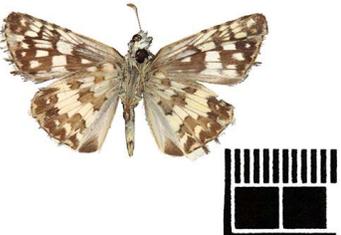
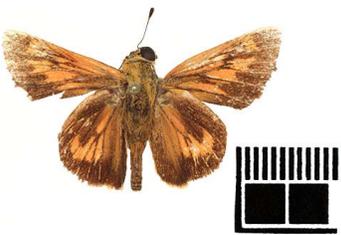
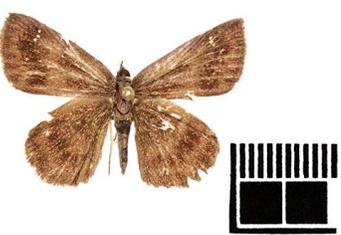
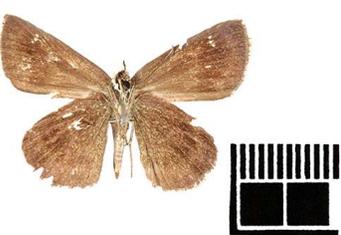
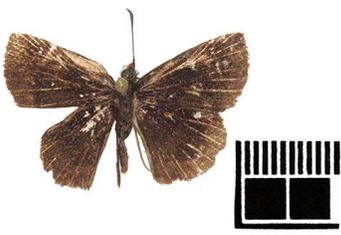
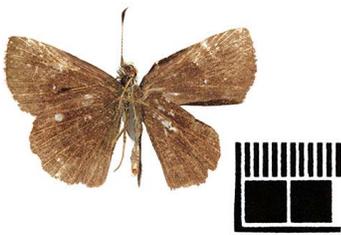
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<b>37</b> <i>Panoquina panoquinoides</i> (Skinner, 1891) <b>HESPERIIDAE</b>		<b>38</b> <i>Panoquina panoquinoides</i> (Skinner, 1891) <b>HESPERIIDAE</b>	
			
<b>39</b> <i>Polites vibex vibex</i> (Geyer, 1832) <b>HESPERIIDAE</b>		<b>40</b> <i>Polythrix asine</i> (Hewitson, 1867) <b>HESPERIIDAE</b>	
			
<b>41</b> <i>Polythrix asine</i> (Hewitson, 1867) <b>HESPERIIDAE</b>		<b>42</b> <i>Proteides mercurius mercurius</i> (Fabricius, 1787) <b>HESPERIIDAE</b>	
			
<b>43</b> <i>Pyrgus communis communis</i> (Grote, 1872) <b>HESPERIIDAE</b>		<b>44</b> <i>Quasimellana eulogius</i> (Plötz, 1882) <b>HESPERIIDAE</b>	
			
<b>45</b> <i>Staphylus azteca</i> (Scudder, 1872) <b>HESPERIIDAE</b>		<b>46</b> <i>Staphylus mazans</i> (Reakirt, [1867]) <b>HESPERIIDAE</b>	

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Dorsal view of a brown moth with dark spots on the forewings.	Ventral view of a brown moth with dark spots on the hindwings.	Dorsal view of a brown moth with dark spots on the forewings.	Ventral view of a brown moth with dark spots on the hindwings.
<b>47 <i>Staphylus mazans</i> (Reakirt, [1867]) HESPERIIDAE</b>		<b>48 <i>Staphylus mazans</i> (Reakirt, [1867]) HESPERIIDAE</b>	
Dorsal view of a brown moth with yellow spots on the forewings.	Ventral view of a brown moth with yellow spots on the hindwings.	Dorsal view of a brown moth with yellow spots on the forewings.	Ventral view of a brown moth with yellow spots on the hindwings.
<b>49 <i>Urbanus dorantes dorantes</i> (Stoll, 1790) HESPERIIDAE</b>		<b>50 <i>Urbanus proteus proteus</i> (Linnaeus, 1758) HESPERIIDAE</b>	
Dorsal view of a brown moth with dark spots on the forewings.	Ventral view of a brown moth with dark spots on the hindwings.	Dorsal view of a brown moth with dark spots on the forewings.	Ventral view of a brown moth with dark spots on the hindwings.
<b>51 <i>Urbanus simplicius</i> (Stoll, 1790) HESPERIIDAE</b>		<b>52 <i>Urbanus simplicius</i> (Stoll, 1790) HESPERIIDAE</b>	
Dorsal view of a brown moth with dark spots on the forewings.	Ventral view of a brown moth with dark spots on the hindwings.	Dorsal view of a brown moth with dark spots on the forewings.	Ventral view of a brown moth with dark spots on the hindwings.
<b>53 <i>Virga clenchi</i> (L. Miller, 1970) HESPERIIDAE</b>		<b>54 Sp. 03 (Hesp043) HESPERIIDAE</b>	
Dorsal view of a brown moth with dark spots on the forewings.	Ventral view of a brown moth with dark spots on the hindwings.	Dorsal view of a brown moth with dark spots on the forewings.	Ventral view of a brown moth with dark spots on the hindwings.
<b>55 Sp. 03 (Hesp043) HESPERIIDAE</b>		<b>56 Sp. 04 (Hesp044) HESPERIIDAE</b>	

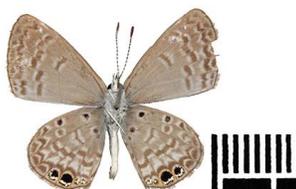
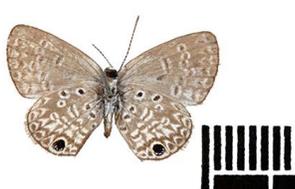
# Lepidoptera on flowering plants of La Mancha, Veracruz, Mexico

7

Cristian Adrian Martínez Adriano<sup>1</sup>, Eduardo Guadalupe Adriano Espinoza<sup>2</sup>, Armando Aguirre Jaimes<sup>1</sup>, Cecilia Díaz Castelazo<sup>1</sup>  
<sup>1</sup>Instituto de Ecología A.C., Red de Interacciones Multitróficas, <sup>2</sup>Preparatoria en Línea – SEP.

Photos: Cristian Adrian Martínez Adriano. Produced by: Cristian Adrian Martínez Adriano and Eduardo Guadalupe Adriano Espinoza, with support from Connie Keller and Andrew Mellon Foundation. © Cristian Adrian Martínez Adriano [cristian.martinez.cama@gmail.com] and other authors. Thanks to: Instituto de Ecología, A. C., Centro de Investigaciones Costeras La Mancha and their staff. Special thanks to E. Zaragoza-Quintana, R. Quintana-Bustamante and J. Sánchez-Huerta for field assistance. Eduardo Guadalupe Adriano Espinoza edited the final version of all butterfly photos.

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57 Sp. 05 (Hesp048) <b>HESPERIIDAE</b>	58 Sp. 07 (Hesp085) <b>HESPERIIDAE</b>
  	  
59 Sp. 08 (Hesp087) <b>HESPERIIDAE</b>	60 Sp. 11 (Hesp159) <b>HESPERIIDAE</b>
  	  
61 Sp. 13 (Hesp162) <b>HESPERIIDAE</b>	62 Sp. 14 (Hesp163) <b>HESPERIIDAE</b>
  	  
63 <i>Arawacus sito</i> (Boisduval, 1836) <b>LYCAENIDAE</b>	64 <i>Calycopsis isobeon</i> (Butler & H. Druce, 1872) <b>LYCAENIDAE</b>
  	  
65 <i>Hemiargus ceraunus astenidas</i> (Lucas, 1857) <b>LYCAENIDAE</b>	66 <i>Hemiargus ceraunus astenidas</i> (Lucas, 1857) <b>LYCAENIDAE</b>

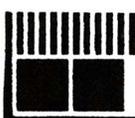
# Lepidoptera on flowering plants of La Mancha, Veracruz, Mexico

# 8

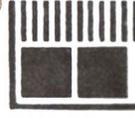
Cristian Adrian Martínez Adriano<sup>1</sup>, Eduardo Guadalupe Adriano Espinoza<sup>2</sup>, Armando Aguirre Jaimes<sup>1</sup>, Cecilia Díaz Castelazo<sup>1</sup>  
<sup>1</sup>Instituto de Ecología A.C., Red de Interacciones Multitróficas, <sup>2</sup>Preparatoria en Línea – SEP.

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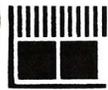
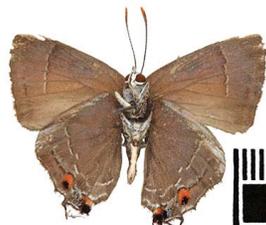
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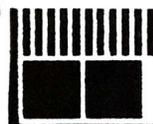
67 *Hemiargus ceraunus watsoni* (W. Comstock & Huntington, 1943)  
LYCAENIDAE



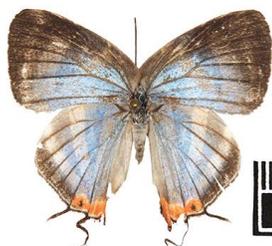
68 *Leptotes cassius cassidula* (Boisduval, 1970)  
LYCAENIDAE



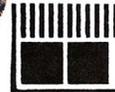
69 *Michaelus hecate* (Godman & Salvin, 1887)  
LYCAENIDAE



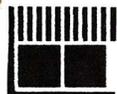
70 *Ministrymon inoa* (Godman & Salvin, 1887)  
LYCAENIDAE



71 *Panthiades bathildis* (C. Felder & R. Felder, 1865)  
LYCAENIDAE



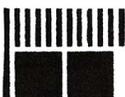
72 *Panthiades bitias* (Cramer, 1777)  
LYCAENIDAE



73 *Rekoa palegon* (Cramer, 1780)  
LYCAENIDAE



74 *Rekoa palegon* (Cramer, 1780)  
LYCAENIDAE



75 *Strymon bazochii bazochii* (Godart, [1824])  
LYCAENIDAE



76 *Strymon istapa istapa* (Reakirt, [1867])  
LYCAENIDAE

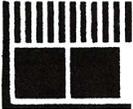
# Lepidoptera on flowering plants of La Mancha, Veracruz, Mexico

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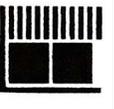
Cristian Adrian Martínez Adriano<sup>1</sup>, Eduardo Guadalupe Adriano Espinoza<sup>2</sup>, Armando Aguirre Jaimes<sup>1</sup>, Cecilia Díaz Castelazo<sup>1</sup>  
<sup>1</sup>Instituto de Ecología A.C., Red de Interacciones Multitróficas, <sup>2</sup>Preparatoria en Línea – SEP.

Photos: Cristian Adrian Martínez Adriano. Produced by: Cristian Adrian Martínez Adriano and Eduardo Guadalupe Adriano Espinoza, with support from Connie Keller and Andrew Mellon Foundation. © Cristian Adrian Martínez Adriano [cristian.martinez.cama@gmail.com] and other authors. Thanks to: Instituto de Ecología, A. C., Centro de Investigaciones Costeras La Mancha and their staff. Special thanks to E. Zaragoza-Quintana, R. Quintana-Bustamante and J. Sánchez-Huerta for field assistance. Eduardo Guadalupe Adriano Espinoza edited the final version of all butterfly photos.

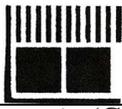
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77 *Strymon istapa istapa* (Reakirt, [1867])  
LYCAENIDAE



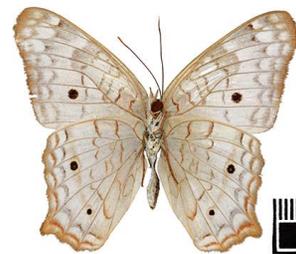
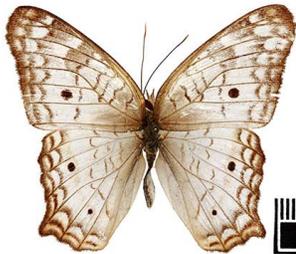
78 *Strymon serapio* (Goldman & Salvin, 1887)  
LYCAENIDAE



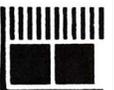
79 *Strymon serapio* (Goldman & Salvin, 1887)  
LYCAENIDAE



80 *Anartia fatima fatima* (Fabricius, 1793)  
NYMPHALIDAE



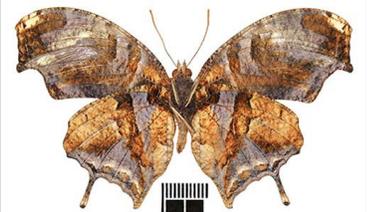
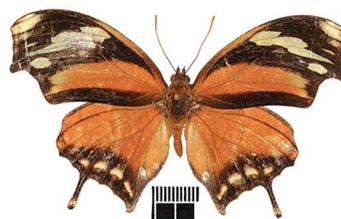
81 *Anartia jatrophae luteipicta* (Frustorfer, 1907)  
NYMPHALIDAE



82 *Anthanassa tulcis* (H.W. Bates, 1864)  
NYMPHALIDAE



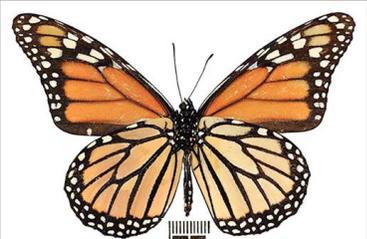
83 *Chlosyne theona theona* (Ménétriés, 1855)  
NYMPHALIDAE



84 *Consul fabius cecrops* (Doubleday, [1849])  
NYMPHALIDAE



85 *Danaus gilippus thersippus* (H.W. Bates, 1863)  
NYMPHALIDAE



86 *Danaus plexippus plexippus* (Linnaeus, 1785)  
NYMPHALIDAE

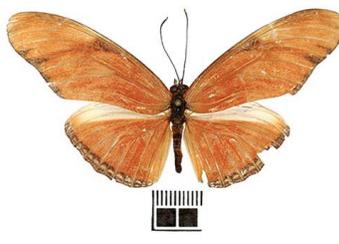
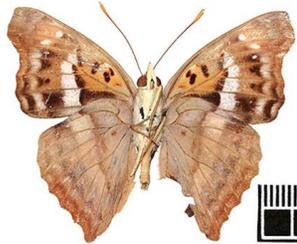
# Lepidoptera on flowering plants of La Mancha, Veracruz, Mexico

# 10

Cristian Adrian Martínez Adriano<sup>1</sup>, Eduardo Guadalupe Adriano Espinoza<sup>2</sup>, Armando Aguirre Jaimes<sup>1</sup>, Cecilia Díaz Castelazo<sup>1</sup>  
<sup>1</sup>Instituto de Ecología A.C., Red de Interacciones Multitróficas, <sup>2</sup>Preparatoria en Línea – SEP.

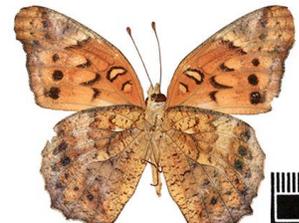
Photos: Cristian Adrian Martínez Adriano. Produced by: Cristian Adrian Martínez Adriano and Eduardo Guadalupe Adriano Espinoza, with support from Connie Keller and Andrew Mellon Foundation. © Cristian Adrian Martínez Adriano [cristian.martinez.cama@gmail.com] and other authors. Thanks to: Instituto de Ecología, A. C., Centro de Investigaciones Costeras La Mancha and their staff. Special thanks to E. Zaragoza-Quintana, R. Quintana-Bustamante and J. Sánchez-Huerta for field assistance. Eduardo Guadalupe Adriano Espinoza edited the final version of all butterfly photos.

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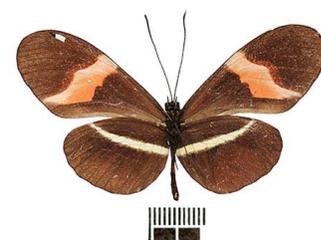
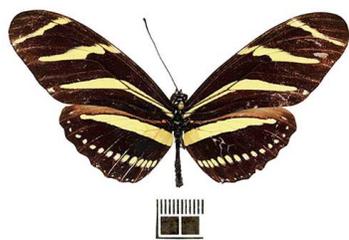
87 *Doxocopa pavon theodora* (Lucas, 1857)  
NYMPHALIDAE

88 *Dryas iulia moderata* (Riley, 1926)  
NYMPHALIDAE



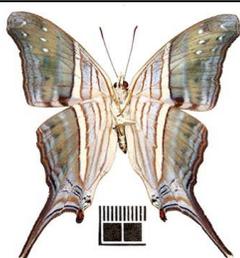
89 *Eunice monima* (Stoll, 1782)  
NYMPHALIDAE

90 *Euptoieta hegesia meridiania* (Stichel, 1938)  
NYMPHALIDAE



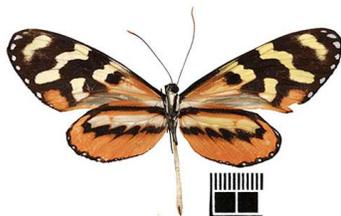
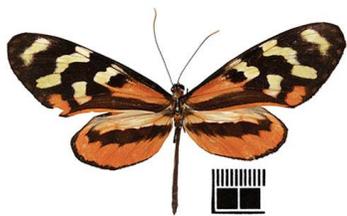
91 *Heliconius charitonia vazquezae* (W. Comstock & F. Brown, 1950)  
NYMPHALIDAE

92 *Heliconius erato petiverana* (Doubleday, 1847)  
NYMPHALIDAE



93 *Marpesia chiron marius* (Cramer, 1779)  
NYMPHALIDAE

94 *Marpesia petreus* (Cramer, 1176) (Northern segregate)  
NYMPHALIDAE



95 *Mechanitis polymnia lycidice* (H. Bates, 1864)  
NYMPHALIDAE

96 *Myscelia ethusa ethusa* (Doyère, [1840])  
NYMPHALIDAE

# Lepidoptera on flowering plants of La Mancha, Veracruz, Mexico

# 11

Cristian Adrian Martínez Adriano<sup>1</sup>, Eduardo Guadalupe Adriano Espinoza<sup>2</sup>, Armando Aguirre Jaimes<sup>1</sup>, Cecilia Díaz Castelazo<sup>1</sup>  
<sup>1</sup>Instituto de Ecología A.C., Red de Interacciones Multitróficas, <sup>2</sup>Preparatoria en Línea – SEP.

Photos: Cristian Adrian Martínez Adriano. Produced by: Cristian Adrian Martínez Adriano and Eduardo Guadalupe Adriano Espinoza, with support from Connie Keller and Andrew Mellon Foundation. © Cristian Adrian Martínez Adriano [cristian.martinez.cama@gmail.com] and other authors. Thanks to: Instituto de Ecología, A. C., Centro de Investigaciones Costeras La Mancha and their staff. Special thanks to E. Zaragoza-Quintana, R. Quintana-Bustamante and J. Sánchez-Huerta for field assistance. Eduardo Guadalupe Adriano Espinoza edited the final version of all butterfly photos.

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97 *Siproeta stelenes* (Linnaeus, 1758)  
NYMPHALIDAE



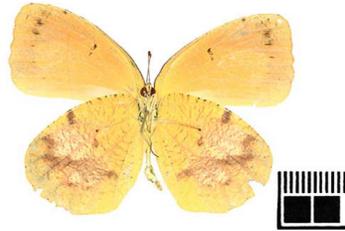
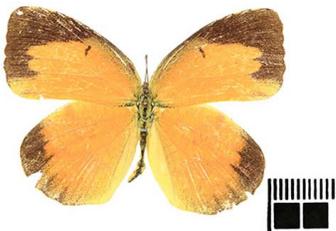
98 *Taygetis thamyra* (Cramer, 1779)  
NYMPHALIDAE



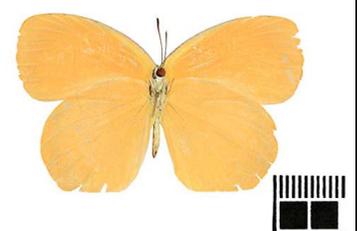
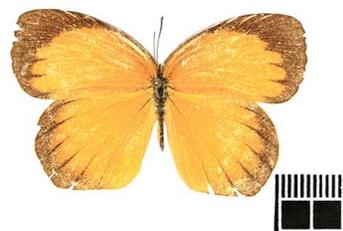
99 *Battus philenor philenor* (Linnaeus, 1771)  
PAPILIONIDAE



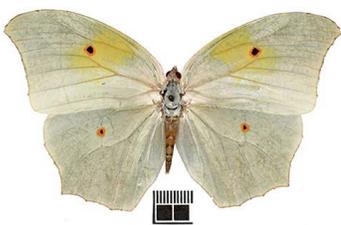
100 *Papilio thoas autocles* (Rostchild y Jordan, 1906)  
PAPILIONIDAE



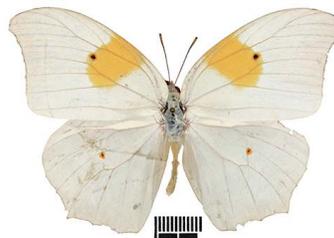
101 *Abaeis nicippe* (Cramer, 1779)  
PIERIDAE



102 *Abaeis nicippe* (Cramer, 1779)  
PIERIDAE



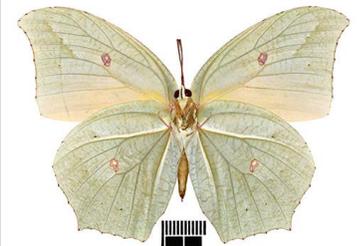
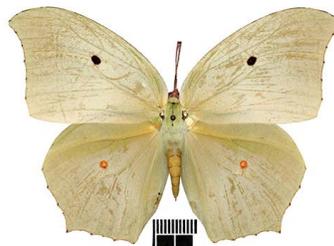
103 *Anteos clorinde* (Godart, [1824])  
PIERIDAE



104 *Anteos clorinde* (Godart, [1824])  
PIERIDAE



105 *Anteos maerula* (Fabricius, 1775)  
PIERIDAE



106 *Anteos maerula* (Fabricius, 1775)  
PIERIDAE

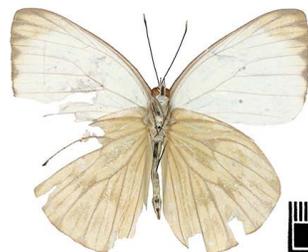
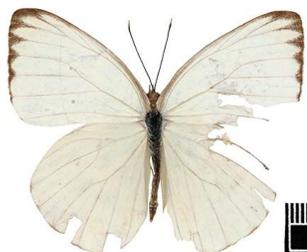
# Lepidoptera on flowering plants of La Mancha, Veracruz, Mexico

# 12

Cristian Adrian Martínez Adriano<sup>1</sup>, Eduardo Guadalupe Adriano Espinoza<sup>2</sup>, Armando Aguirre Jaimes<sup>1</sup>, Cecilia Díaz Castelazo<sup>1</sup>  
<sup>1</sup>Instituto de Ecología A.C., Red de Interacciones Multitróficas, <sup>2</sup>Preparatoria en Línea – SEP.

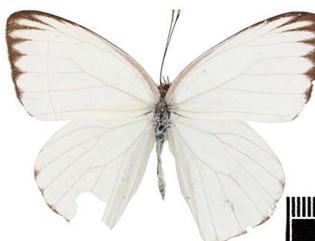
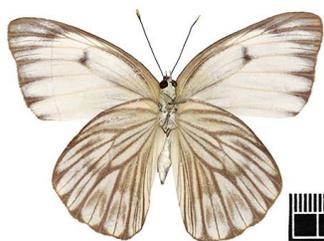
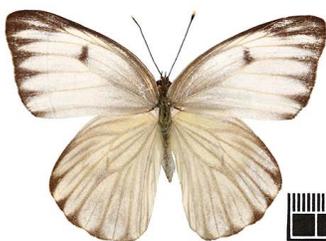
Photos: Cristian Adrian Martínez Adriano. Produced by: Cristian Adrian Martínez Adriano and Eduardo Guadalupe Adriano Espinoza, with support from Connie Keller and Andrew Mellon Foundation. © Cristian Adrian Martínez Adriano [cristian.martinez.cama@gmail.com] and other authors. Thanks to: Instituto de Ecología, A. C., Centro de Investigaciones Costeras La Mancha and their staff. Special thanks to E. Zaragoza-Quintana, R. Quintana-Bustamante and J. Sánchez-Huerta for field assistance. Eduardo Guadalupe Adriano Espinoza edited the final version of all butterfly photos.

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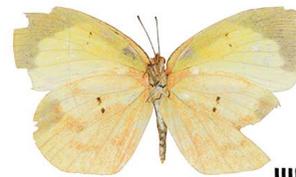
107 *Ascia monuste monuste* (Linnaeus, 1764)  
PIERIDAE

108 *Ascia monuste monuste* (Linnaeus, 1764)  
PIERIDAE



109 *Ascia monuste monuste* (Linnaeus, 1764)  
PIERIDAE

110 *Ascia monuste monuste* (Linnaeus, 1764)  
PIERIDAE



111 *Eurema albula celata* (R. Felder, 1869)  
PIERIDAE

112 *Eurema daira eugenia* (Wallengren, 1860)  
PIERIDAE



113 *Eurema daira eugenia* (Wallengren, 1860)  
PIERIDAE

114 *Eurema daira eugenia* (Wallengren, 1860)  
PIERIDAE



115 *Nathalis iole iole* (Boisduval, 1836)  
PIERIDAE

116 *Nathalis iole iole* (Boisduval, 1836)  
PIERIDAE

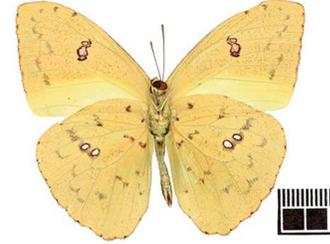
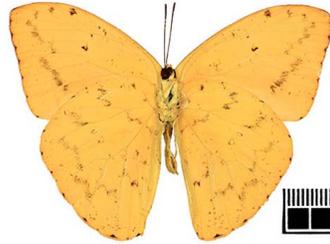
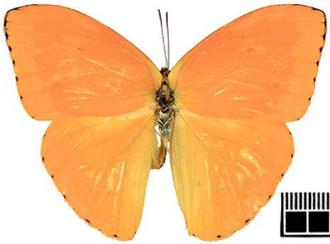
# Lepidoptera on flowering plants of La Mancha, Veracruz, Mexico

# 13

Cristian Adrian Martínez Adriano<sup>1</sup>, Eduardo Guadalupe Adriano Espinoza<sup>2</sup>, Armando Aguirre Jaimes<sup>1</sup>, Cecilia Díaz Castelazo<sup>1</sup>  
<sup>1</sup>Instituto de Ecología A.C., Red de Interacciones Multitróficas, <sup>2</sup>Preparatoria en Línea – SEP.

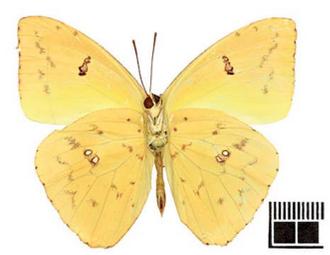
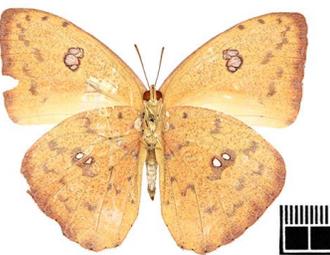
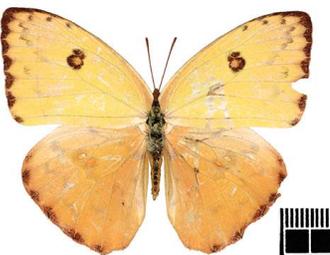
Photos: Cristian Adrian Martínez Adriano. Produced by: Cristian Adrian Martínez Adriano and Eduardo Guadalupe Adriano Espinoza, with support from Connie Keller and Andrew Mellon Foundation. © Cristian Adrian Martínez Adriano [cristian.martinez.cama@gmail.com] and other authors. Thanks to: Instituto de Ecología, A. C., Centro de Investigaciones Costeras La Mancha and their staff. Special thanks to E. Zaragoza-Quintana, R. Quintana-Bustamante and J. Sánchez-Huerta for field assistance. Eduardo Guadalupe Adriano Espinoza edited the final version of all butterfly photos.

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**117** *Phoebis argante* ssp. n. DHJ01 (*P. argante* of Brown, 1929)  
**PIERIDAE**

**118** *Phoebis sennae marcellina* (Cramer, 1777)  
**PIERIDAE**



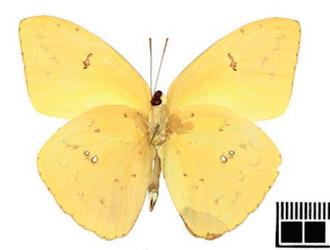
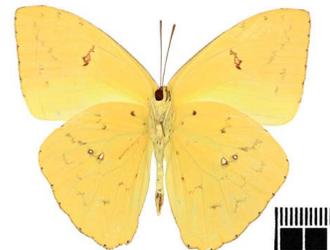
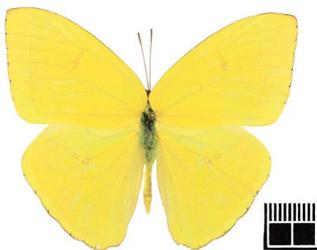
**119** *Phoebis sennae marcellina* (Cramer, 1777)  
**PIERIDAE**

**120** *Phoebis sennae marcellina* (Cramer, 1777)  
**PIERIDAE**



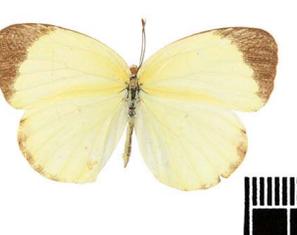
**121** *Phoebis sennae marcellina* (Cramer, 1777)  
**PIERIDAE**

**122** *Phoebis sennae marcellina* (Cramer, 1777)  
**PIERIDAE**



**123** *Phoebis sennae marcellina* (Cramer, 1777)  
**PIERIDAE**

**124** *Phoebis sennae marcellina* (Cramer, 1777)  
**PIERIDAE**



**125** *Phoebis sennae marcellina* (Cramer, 1777)  
**PIERIDAE**

**126** *Pyrisitia nise nelphe* (Cramer, 1775)  
**PIERIDAE**

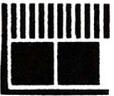
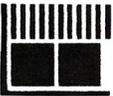
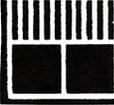
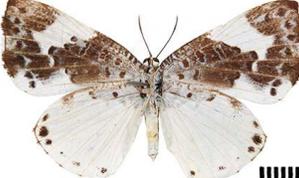
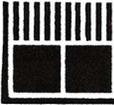
# Lepidoptera on flowering plants of La Mancha, Veracruz, Mexico

# 14

Cristian Adrian Martínez Adriano<sup>1</sup>, Eduardo Guadalupe Adriano Espinoza<sup>2</sup>, Armando Aguirre Jaimes<sup>1</sup>, Cecilia Díaz Castelazo<sup>1</sup>  
<sup>1</sup>Instituto de Ecología A.C., Red de Interacciones Multitróficas, <sup>2</sup>Preparatoria en Línea – SEP.

Photos: Cristian Adrian Martínez Adriano. Produced by: Cristian Adrian Martínez Adriano and Eduardo Guadalupe Adriano Espinoza, with support from Connie Keller and Andrew Mellon Foundation. © Cristian Adrian Martínez Adriano [cristian.martinez.cama@gmail.com] and other authors. Thanks to: Instituto de Ecología, A. C., Centro de Investigaciones Costeras La Mancha and their staff. Special thanks to E. Zaragoza-Quintana, R. Quintana-Bustamante and J. Sánchez-Huerta for field assistance. Eduardo Guadalupe Adriano Espinoza edited the final version of all butterfly photos.

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<b>127</b> <i>Anteros carasius carasius</i> (Westwood, 1851) <b>RIODINIDAE</b>	<b>128</b> <i>Calephelis perditalis donahuei</i> (McAlpine, 1971) <b>RIODINIDAE</b>
   	   
<b>129</b> <i>Calicosama lilina</i> (Butler, 1870) <b>RIODINIDAE</b>	<b>130</b> <i>Caria ino melicerta</i> (Schaus, 1890) <b>RIODINIDAE</b>
   	   
<b>131</b> <i>Emesis tenedia</i> (C. Felder & R. Felder, 1861) <b>RIODINIDAE</b>	<b>132</b> <i>Rhetus arcus thia</i> (Morisse, 1838) <b>RIODINIDAE</b>
   	<p>La reserva de La Mancha es un área administrada por el Instituto de Ecología, A. C. La reserva comprende varios tipos de vegetación en tan solo 82.29 ha. En esta área natural las mariposas son muy comunes y son un grupo importante de insectos que puede fungir como visitantes florales. Las especies de mariposas de esta guía fueron colectadas en seis tipos de vegetación distribuidas en este ecosistema costero tropical. El objetivo de esta guía es de proveer conocimiento acerca de la diversidad de mariposas a la gente local, para propósitos educacionales y de ecoturismo. Las imágenes de esta guía de campo incluyen la posición dorsal y ventral de cada especie de mariposa y una escala de 1cm.</p> <p><b>Artículo complementario asociado a esta guía de campo:</b> Martínez-Adriano CA, Díaz-Castelazo C, Aguirre-Jaimes A. (2018) Flower-mediated plant-butterfly interactions in an heterogeneous tropical coastal ecosystem. PeerJ 6:e5493 <a href="https://doi.org/10.7717/peerj.5493">https://doi.org/10.7717/peerj.5493</a></p>
<b>133</b> <i>Theope eupolis</i> (Schaus, 1890) <b>RIODINIDAE</b>	