

NEOTROPICAL NYMPHALIDAE IN PHOTOGRAPHY

Part 2

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ABSTRACT.— Presented here are 100 photographs from life of 83 species of Neotropical Nymphalidae, from Brazil, Costa Rica, Ecuador, Mexico, Peru, and Venezuela, mostly photographed on Emmel-Holbrook butterfly expeditions within the past 8 years.

KEY WORDS: *Actinote*, *Agrias*, *Anetia*, *Antirrhea*, *Archaeoprepona*, *Bia*, Brazil, *Callicore*, *Caligo*, *Castilia*, *Catoblepia*, *Ceratinia*, *Cithaerias*, Costa Rica, *Dynamine*, Ecuador, *Eunica*, *Euptychia*, *Godyris*, *Haetera*, *Hamadryas*, *Heliconius*, *Hypna*, *Ithomia*, *Junonia*, *Lycorea*, *Mechanitis*, *Memphis*, *Methona*, Mexico, *Morpho*, *Napeocles*, *Nessaea*, *Nica*, *Oleria*, *Opsiphanes*, *Oxeoschistus*, *Paulogramma*, *Penrosada*, *Peria*, Peru, *Pierella*, *Prepona*, *Pteronymia*, *Scada*, *Siproeta*, *Taygetis*, *Temenis*, *Tithorea*, Venezuela, *Zaretis*.

In this article I present the second part of my Neotropical Nymphalidae photographs: part 1 appeared in *Tropical Lepidoptera* vol. 2, no. 2 (Krizek, 1991). I wish to apologize to the reader for the fact that I was not able to arrange the photographs alphabetically on the color plates, as was done in the previous part. The desire to place 6 pictures on a page without respect to the size of the butterfly would have made it impossible, for example, to fit six *Caligo* pictures on a single page. I also apologize for the differences in quality of the photographs, which were done over a period of 8 years, not always using the same quality of photographic equipment, and under various conditions. The use of composite plates of photographic prints, rather than using individual slides, may also be responsible for uneven illumination in some cases or some unevenness in sharpness, which in the original slide is not the case. In spite of these disadvantages, I decided to publish these photographs because it is very probable that some of these species have not previously been photographed alive, or published as pictures of living specimens. While most of the species illustrated are common, others are rare, and some may even be "once in a lifetime pictures" for me.

- Actinote antea**? Doubleday Fig. 99
Tinalandia, Pichincha, Ecuador, 7 May 1990.
- Actinote melampeplos**? Godman & Salvin Fig. 100
Tinalandia, Pichincha, Ecuador, 7 May 1990.
- Actinote ozomene** Godart Fig. 98
Tinalandia, Pichincha, Ecuador, 10 May 1990 (♂).
- Agrias amydon bellatrix** Hewitson Fig. 1-2
Fazenda Rancho Grande, Rondonia, Brazil, 23 Apr 1992.
- Anetia thirza** (Geyer) Fig. 34
Monte Verde, Costa Rica, 19 May 1985.
- Antirrhea murena** Staudinger Fig. 11
Fazenda Rancho Grande, Rondonia, Brazil, 8 Nov 1989.
- Archaeoprepona amphimachus** (Fabricius) Fig. 14
Fazenda Rancho Grande, Rondonia, Brazil, 7 Apr 1992.

- Archaeoprepona demophon** (Linnaeus) Fig. 13, 17
Fazenda Rancho Grande, Rondonia, Brazil, 23 Apr 1992.
- Bia actorion** (Linnaeus) Fig. 64
Explorama Lodge, Loreto, Peru, 19 Jul 1989.
- Callicore cynosura** Doubleday Fig. 6
Fazenda Rancho Grande, Rondonia, Brazil, 11 Apr 1992.
- Callicore hystaspes** (Fabricius) Fig. 3-4
Fazenda Rancho Grande, Rondonia, Brazil, 14 Apr 1992.
- Caligo eurilochus** (Cramer) Fig. 27
Tinalandia, Pichincha, Ecuador, 11 May 1990 (♂).
- Caligo idomeneus** (Linnaeus) Fig. 26
Fazenda Rancho Grande, Rondonia, Brazil, 6 Nov 1989.
- Caligo memnon**? Felder Fig. 31
Explorama Lodge, Loreto, Peru, 18 Jul 1989.
- Caligo uranus** Herrich-Schäffer Fig. 30
Turrialba, Costa Rica, 14 May 1985.
- Castilia angusta** Hewitson Fig. 19
Fazenda Rancho Grande, Rondonia, Brazil, 8 Apr 1992.
- Catoblepia orgetorix** Hewitson Fig. 68
Turrialba, Costa Rica, 15 May 1985.
- Ceratinia tutia** Hewitson Fig. 91
Col dos Rios, Costa Rica, 22 May 1985.
- Cithaerias aurorina** Weymer Fig. 54
Explorama Lodge, Loreto, Peru, 21 Jul 1989.
- Cithaerias menander** (Drury) Fig. 53
Turrialba, Costa Rica, 15 May 1985.
- Dynamine agacles** Dalman Fig. 16
Fazenda Rancho Grande, Rondonia, Brazil, 20 Apr 1992.
- Dynamine myrson** Doubleday Fig. 8
Fazenda Rancho Grande, Rondonia, Brazil, 17 Apr 1992 (♂).
- Eunica concordia** Hewitson Fig. 21, 23
Fazenda Rancho Grande, Rondonia, Brazil, 7 Nov 1989.
- Euptychia arnaea** (Fabricius) Fig. 67
Fazenda Rancho Grande, Rondonia, Brazil, 15 Mar 1991.
- Euptychia cephus** (Fabricius) Fig. 63
Explorama Lodge, Loreto, Peru, 18 Jul 1989 (♀).



Fig. 1. *Agrias amydon bellatrix*
Fig. 2. *Agrias amydon bellatrix*

Fig. 3. *Callicore hystaspes*
Fig. 4. *Callicore hystaspes*

Fig. 5. *Paulogramma peristera*
Fig. 6. *Callicore cynosura*



Fig. 7. *Temenis pulchra dilutior*
Fig. 8. *Dynamine myrson* ♂

Fig. 9. *Nica flavilla* (center right)

Fig. 10. *Peria lamis*
Fig. 11. *Antirrhea murena*



Fig. 12. *Prepona rothschildi*
Fig. 13. *Archaeoprepona demophon*

Fig. 14. *Archaeoprepona amphimachus*
Fig. 15. *Prepona laertes*

Fig. 16. *Dynamine agacles*
Fig. 17. *Archaeoprepona demophon*



Fig. 18. *Hypna clytemnestra*
Fig. 19. *Castilia angusta*

Fig. 20. *Zaretis itys* ♀
Fig. 21. *Eunica concordia*

Fig. 22. *Junonia* sp.
Fig. 23. *Eunica concordia*



Fig. 24. *Opsiphanes cassina*
Fig. 25. *Opsiphanes invirae*

Fig. 26. *Caligo idomeneus*
Fig. 27. *Caligo eurilochus*

Fig. 28. *Pierella hyalinus*
Fig. 29. *Heliconius clysonimus*

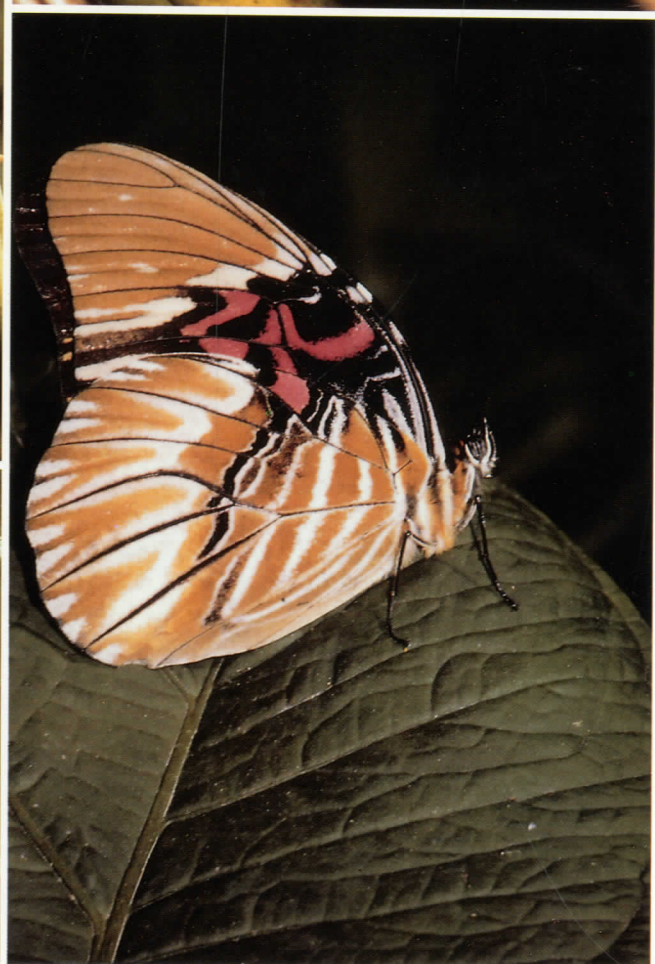
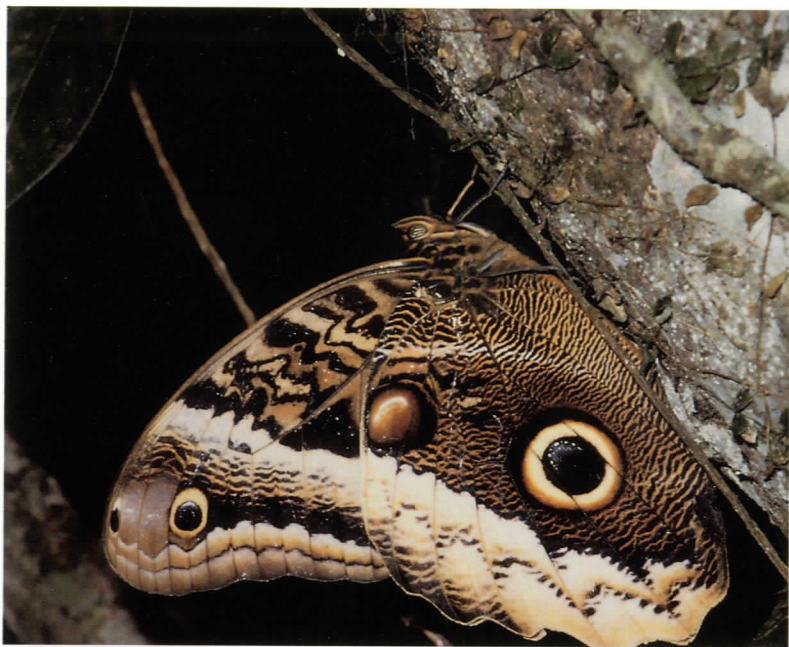


Fig. 30. *Caligo uranus*
Fig. 31. *Caligo memnon*?

Fig. 32. *Heliconius besckei*

Fig. 33. *Nessaea obrinus* ♂
Fig. 34. *Anetia thirza* (lower right corner)



Fig. 35. *Napeocles jucunda*
Fig. 36. *Napeocles jucunda*

Fig. 37. *Napeocles jucunda*
Fig. 38. *Oxeoschistus isolda*

Fig. 39. *Tithorea tarricina*
Fig. 40. *Taygetis echo*



Fig. 41. *Hamadryas feronia*
Fig. 42. *Pierella rhea*

Fig. 43. *Pierella lesbia*
Fig. 44. *Siproeta stelenes*

Fig. 45. *Memphis polyxo*
Fig. 46. *Hamadryas amphinome*



Fig. 47. *Pierella lena*
Fig. 48. *Pierella lena*

Fig. 49. *Pierella lena*
Fig. 50. *Pierella astyoche*

Fig. 51. *Pierella rhea*
Fig. 52. *Pierella rhea*



Fig. 53. *Cithaerias menander*
Fig. 54. *Cithaerias aurorina*

Fig. 55. *Haetera piera*
Fig. 56. *Pierella helvina*

Fig. 57. *Scada reckia?*
Fig. 58. *Pteronymia carlia*



Fig. 59. *Euptychia hesione*
Fig. 60. *Euptychia hewitsoni*

Fig. 61. *Euptychia moepius*
Fig. 62. *Euptychia labe*

Fig. 63. *Euptychia cephus* ♀
Fig. 64. *Bia actorion*

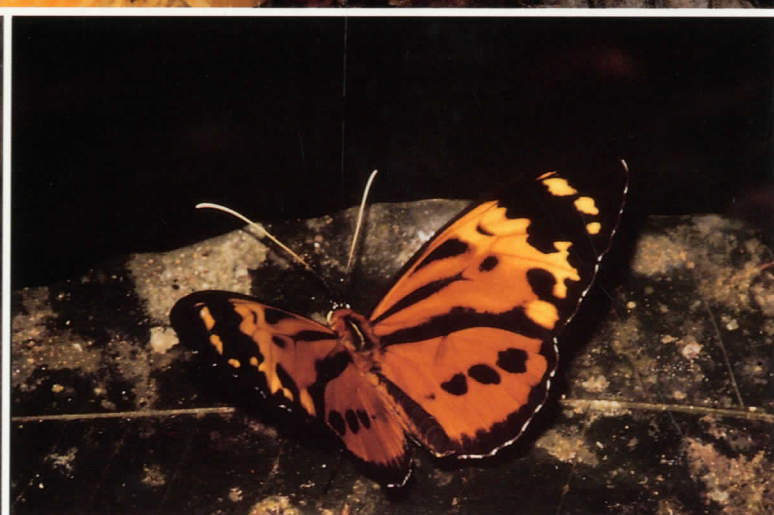


Fig. 65. *Lycorea cleobaea*
Fig. 66. *Penrosada lena*

Fig. 67. *Euptychia arnaea*
Fig. 68. *Catoblepia orgetorix*

Fig. 69. *Heliconius hecale*
Fig. 70. *Tithorea harmonia*

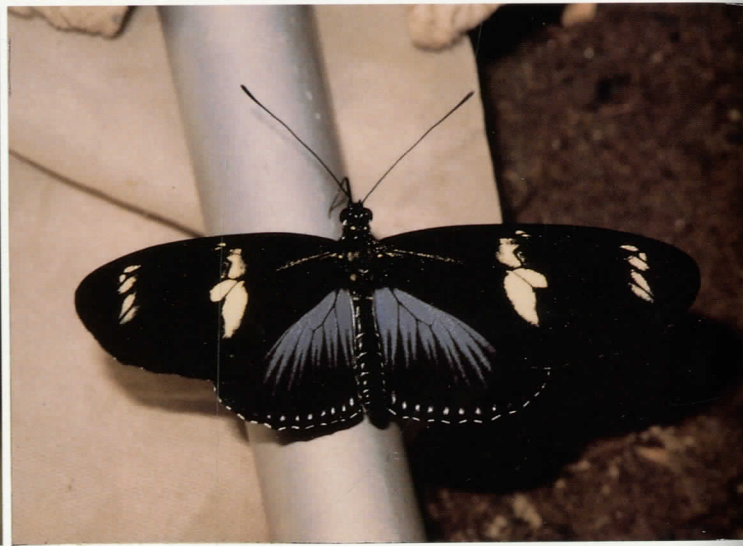
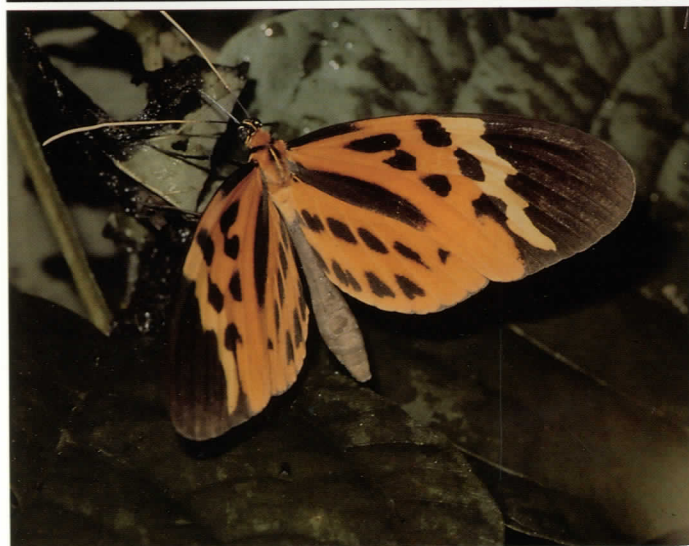


Fig. 71. ? (unidentified sp.)
Fig. 72. *Taygetis* sp. (nr. *andromeda*)

Fig. 73. *Heliconius numata*
Fig. 74. *Heliconius doris aristomache*

Fig. 75. *Euptychia metaleuca*
Fig. 76. *Godyris zavaleta*

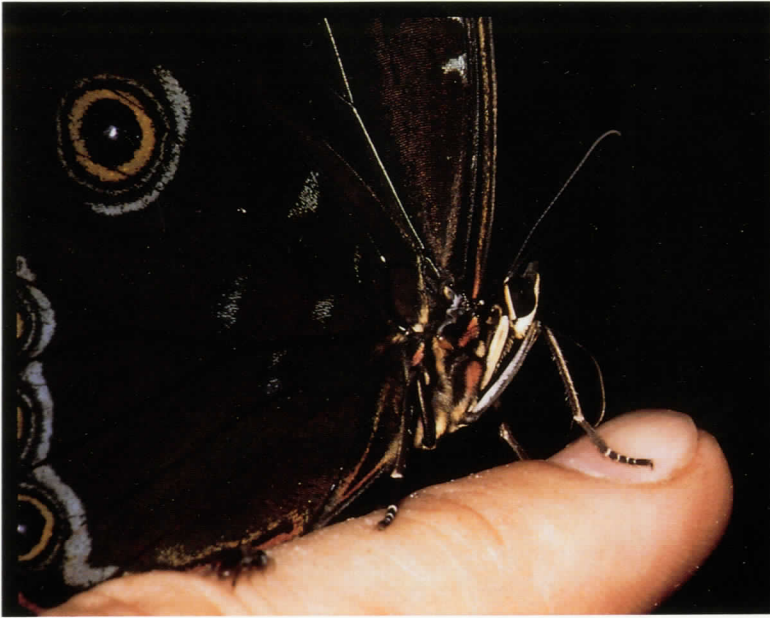


Fig. 77. *Morpho helenor/achilles*
Fig. 78. *Morpho peleides* ♂

Fig. 79. *Morpho helenor/achilles*
Fig. 80. *Morpho menelaus* ♂

Fig. 81. *Morpho helenor/achilles*
Fig. 82. *Morpho helenor/achilles*



Fig. 83. *Heliconius erato cyrbia*
Fig. 84. *Heliconius erato cyrbia*

Fig. 85. *Heliconius sapho*
Fig. 86. *Heliconius sapho primularis*

Fig. 87. *Ithomia heraldica*
Fig. 88. *Heliconius athys*

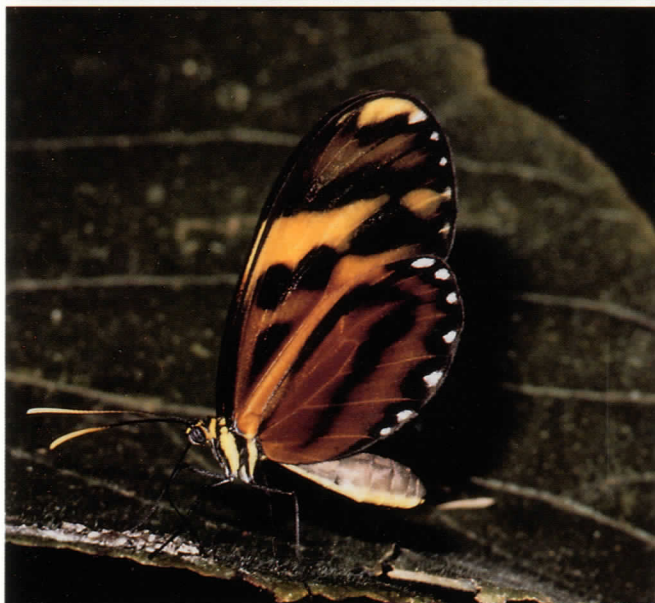
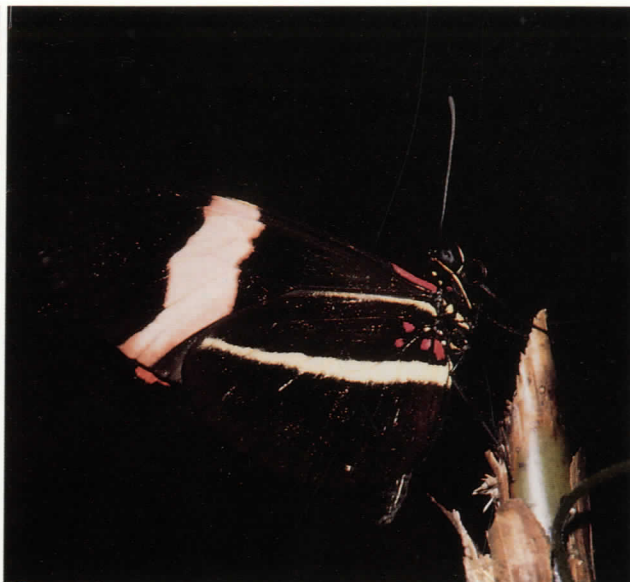


Fig. 89. *Heliconius erato dryope*
Fig. 90. *Heliconius erato*

Fig. 91. *Ceratinia tutia*
Fig. 92. *Heliconius erato*

Fig. 93. *Methona* sp.
Fig. 94. *Heliconius clysonimus* (with pollen)

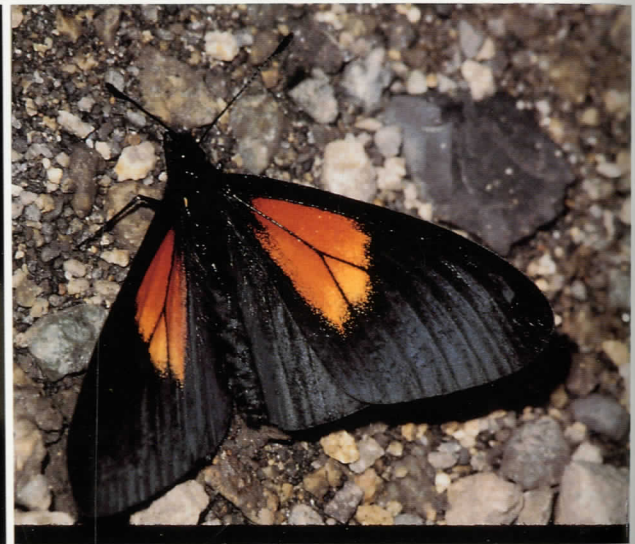
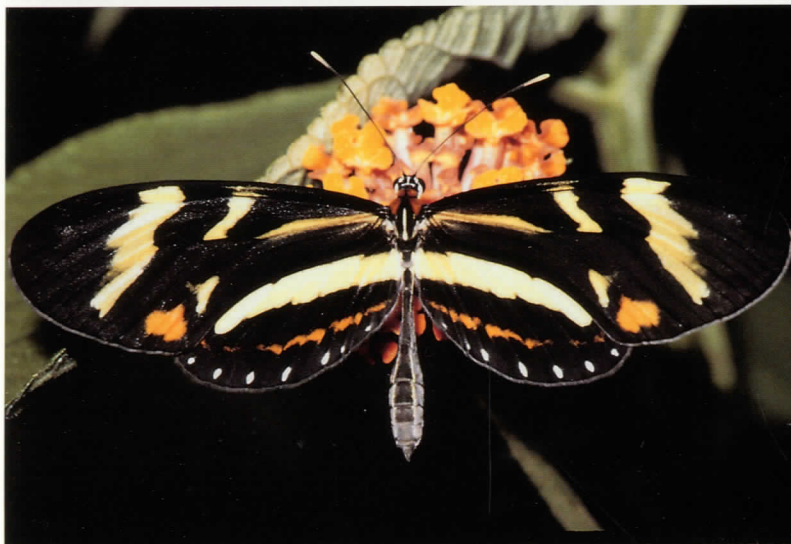


Fig. 95. *Heliconius doris delia*
Fig. 96. *Oleria borilis*

Fig. 97. *Mechanitis menapis mantineus*
Fig. 98. *Actinote ozomene*

Fig. 99. *Actinote anteas?*
Fig. 100. *Actinote melampepos?*

- Euptychia hesione** (Sulzer) Fig. 59
Explorama Lodge, Loreto, Peru, 20 Jul 1989.
- Euptychia hewitsoni** Butler Fig. 60
Fazenda Rancho Grande, Rondonia, Brazil, 20 Apr 1992.
- Euptychia labe** Butler Fig. 62
Tinalandia, Pichincha, Ecuador, 11 May 1990.
- Euptychia metaleuca** Boisduval Fig. 75
Turrialba, Costa Rica, 14 May 1985.
- Euptychia moepius** Godart Fig. 61
Explorama Lodge, Loreto, Peru, 18 Jul 1989.
- Godyrus zavaleta** Hewitson Fig. 76
Turrialba, Costa Rica, 15 May 1985.
- Haetera piera** (Linnaeus) Fig. 55
Fazenda Rancho Grande, Rondonia, Brazil, 9 Apr 1992.
- Hamadryas amphinome** (Linnaeus) Fig. 46
Fazenda Rancho Grande, Rondonia, Brazil, 10 Apr 1992.
- Hamadryas feronia** (Linnaeus) Fig. 41
Fazenda Rancho Grande, Rondonia, Brazil, 14 Apr 1992.
- Heliconius atthis** Doubleday Fig. 88
Tinalandia, Pichincha, Ecuador, 9 May 1990.
- Heliconius besckei** Ménétriés Fig. 32
West of Curitiba, Paraná, Brazil, 15 Mar 1984.
- Heliconius clysonimus** Latreille Fig. 29, 94
Monte Verde, Costa Rica, 18 May 1985 (Fig. 94 shows detail of the proboscis with pollen).
- Heliconius doris delia** Hübner Fig. 95
Fazenda Rancho Grande, Rondonia, Brazil, 3 Nov 1989.
- Heliconius doris aristomache** Riffarth Fig. 74
Tinalandia, Pichincha, Ecuador, 11 May 1990.
- Heliconius erato** (Linnaeus) Fig. 90, 92
Turrialba, Costa Rica, 16 May 1985.
- Heliconius erato dryope** Riffarth Fig. 89
São Bento do Sul, Santa Catarina, Brazil, 12 Mar 1984.
- Heliconius erato cyrbia** Godart Fig. 83-84
Tinalandia, Pichincha, Ecuador, 8 May 1990.
- Heliconius hecale** (Fabricius) Fig. 69
Fazenda Rancho Grande, Rondonia, Brazil, 20 Mar 1991.
- Heliconius numata** (Cramer) Fig. 73
Fazenda Rancho Grande, Rondonia, Brazil, 23 Mar 1991.
- Heliconius sapho** Drury Fig. 85
Tinalandia, Pichincha, Ecuador, 9 May 1990.
- Heliconius sapho primularis** Butler Fig. 86
Tinalandia, Pichincha, Ecuador, 7 May 1990.
- Unidentified sp. Fig. 71
San Isidro, Venezuela, 26 Jun 1984.
- Hypna clytemnestra** (Cramer) Fig. 18
Fazenda Rancho Grande, Rondonia, Brazil, 7 Apr 1992.
- Ithomia heraldica** Bates Fig. 87
Col dos Rios, Costa Rica, 22 May 1985.
- Junonia** sp. Fig. 22
Fazenda Rancho Grande, Rondonia, Brazil, 21 Apr 1992.
- Lycorea cleobaea** Godart Fig. 65
Fazenda Rancho Grande, Rondonia, Brazil, 9 Apr 1992.
- Mechanitis menapis mantineus** Hewitson Fig. 97
Tinalandia, Pichincha, Ecuador, 9 May 1990.
- Memphis polyxo** Druce Fig. 45
Fazenda Rancho Grande, Rondonia, Brazil, 24 Apr 1992.
- Methona** sp. Fig. 93
Fazenda Rancho Grande, Rondonia, Brazil, 3 Nov 1989.
- Morpho helenor/achilles** Fig. 82
Fazenda Rancho Grande, Rondonia, Brazil, 16 Mar 1991.
Dorsal basking.
- Morpho helenor/achilles** Fig. 77
Fazenda Rancho Grande, Rondonia, Brazil, 10 Nov 1989.
Specimen exploring the author's left index finger with its proboscis, probably attracted by sweat.
- Morpho helenor/achilles** Fig. 79
Fazenda Rancho Grande, Rondonia, Brazil, 10 Nov 1989. Same specimen (Fig. 77), perching on a green bag.
- Morpho helenor/achilles** Fig. 81
San Isidro, Venezuela, 26 Jun 1984.
- Morpho menelaus** (Linnaeus) Fig. 82
Explorama Lodge, Loreto, Peru, 18 Jul 1989 (♂).
- Morpho peleides** Kollar Fig. 78
Monte Verde, Costa Rica, 19 May 1985. Dorsal basking by ♂.
- Napeocles jucunda** Hübner Fig. 35-37
Fazenda Rancho Grande, Rondonia, Brazil, 17 Apr 1992.
- Nessaia obrinus** (Linnaeus) Fig. 33
Explorama Lodge, Loreto, Peru, 18 Jul 1989 (♂).
- Nica flavilla** Hübner Fig. 9
Fazenda Rancho Grande, Rondonia, Brazil, 9 Apr 1992.
- Oleria borilis** Haensch Fig. 96
Poas, Costa Rica, 12 May 1985.
- Opsiphanes cassina** Felder Fig. 24
Puerto Vallarta, Mexico, 24 Feb 1988.
- Opsiphanes invirae** Hübner Fig. 25
Fazenda Rancho Grande, Rondonia, Brazil, 6 Nov 1989.
- Oxeoschistus isolda** Thieme Fig. 38
Tinalandia, Pichincha, Ecuador, 11 May 1990.
- Paulogramma peristera** Hewitson Fig. 5
Fazenda Rancho Grande, Rondonia, Brazil, 21 Apr 1992.
- Penrosada lena** Staudinger Fig. 66
Tinalandia, Pichincha, Ecuador, 10 May 1990.
- Peria lamis** (Cramer) Fig. 10
Fazenda Rancho Grande, Rondonia, Brazil, 21 Apr 1992.
- Pierella astyoche** Erichson Fig. 50
Explorama Lodge, Loreto, Peru, 21 Jul 1989.
- Pierella helvina** Hewitson Fig. 56
Turrialba, Costa Rica, 15 May 1985.
- Pierella hyalinus** (Gmelin) Fig. 28
Fazenda Rancho Grande, Rondonia, Brazil, 13 Apr 1992. The tail of the left hindwing is missing, disclosing the blue color of the right hindwing.
- Pierella lena** (Linnaeus) Fig. 47
Fazenda Rancho Grande, Rondonia, Brazil, 19 Apr 1992.
- Pierella lena** (Linnaeus) Fig. 48-49
Fazenda Rancho Grande, Rondonia, Brazil, 7 Apr 1992.
- Pierella lesbia** Staudinger Fig. 43
San Isidro, Costa Rica, 25 May 1985.
- Pierella rhea** (Fabricius) Fig. 51-52
Fazenda Rancho Grande, Rondonia, Brazil, 19 Apr 1992. Note the golden brown reflection on the left forewing in Fig. 51 (both figures are the same individual).
Pierella butterflies are extremely sensitive to movement, flying in the dark shadows of the rainforest near to the ground. They

only very seldomly perch with wings open. In view of these behavior traits, poses showing open wings of this genus are a rare photographic luck.

- Prepona laertes** Hübner Fig. 15
Fazenda Rancho Grande, Rondonia, Brazil, 10 Nov 1989.
- Prepona rothschildi** Le Moulton Fig. 12
Fazenda Rancho Grande, Rondonia, Brazil, 22 Apr 1992.
- Pteronymia carlia** Schaus Fig. 58
Monte Verde, Costa Rica, 18 May 1985.
- Scada reckia?** Hübner Fig. 57
Fazenda Rancho Grande, Rondonia, Brazil, 16 Mar 1991.
- Siproeta stelenes** (Linnaeus) Fig. 44
Fazenda Rancho Grande, Rondonia, Brazil, 19 Apr 1992.
- Taygetis echo** (Cramer) Fig. 40
Fazenda Rancho Grande, Rondonia, Brazil, 18 Apr 1992.
- Taygetis** sp. (near *andromeda* Cramer) Fig. 72
Tinalandia, Pichincha, Ecuador, 7 May 1990.
- Temenis pulchra dilutior** Fruhstorfer Fig. 7
Fazenda Rancho Grande, Rondonia, Brazil, 11 Nov 1989 (♂).
The rainforest, where this nice specimen was photographed, was turned into a very ugly pasture the following year.
- Tithorea harmonia** (Cramer) Fig. 70
Fazenda Rancho Grande, Rondonia, Brazil, 11 Nov 1989.
- Tithorea tarricina** Hewitson Fig. 39
Turrialba, Costa Rica, 16 May 1985.
- Zaretis itys** (Cramer) Fig. 20
Fazenda Rancho Grande, Rondonia, Brazil, 14 Apr 1992 (♀).

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