

THE BUTTERFLIES OF MISSISSIPPI—SUPPLEMENT NO. 2¹BRYANT MATHER² AND KATHARINE MATHER

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The first list of Mississippi butterflies (Weed, 1894) included 53 species; the second (Hutchins, 1933) included 73; the third (Mather & Mather, 1958) included 122, 45 of which were not included in either of the previous lists. Mather & Mather (1959) removed two names from the 1958 list because the material upon which their inclusion had been based was found to have been incorrectly determined and added two names based on new collecting data. Since 1959 we have prepared and given informal limited circulation to a number of revised manuscript lists, but in each case there have been questions of nomenclature and relationships awaiting resolution through publication by others. It now seems appropriate to issue as a second supplement, a list of the names of the 143 species now known to have been found in Mississippi, arranged in current sequence and designated by current names.

The 120 names included in the 1958 list still regarded as valid are given in their current form and position in the list without further comment. The two added in 1959 were *Nastra neamathla* (Skinner & Williams) (42) and *Satyrium kingi* (Klots & Clench) (86). The 21 additional names, indicated by "*" in the list, are included on the basis of evidence of their occurrence as summarized below. *Wallengrenia egeremet* (Scudder) (31) and *Lethe anthedon* (Clark) (136) were known prior to 1958 to be present in the Mississippi fauna; they are now regarded as species distinct from *Wallengrenia otho* (Smith) (30) and *Lethe portlandia* (Fabricius) (135) respectively, rather than forms of these. The remaining 19 additions represent new data on the Mississippi fauna. Work by Rick Kergosien added six: *Amblyscirtes reversa* Jones (10), *Erynnis funeralis* (Scudder & Burgess) (48), *Urbanus d. dorantes* (Stoll) (59), *Brephidium isophthalma pseudofea* (Morrison) (100), *Anartia jatrophae guantanamo* Munroe (113), and *Hypolimnys misippus* (Linnaeus) (121). Work by Charles T. Bryson added five: *Poanes hobomok* (Harris) (21), *Problema byssus* (Edwards) (25), *Leptotes marina* (Reakirt) (101), *Euphydryas phaeton ozarkae* Masters (127), and *Lethe a. appalachia* Chermock (138). We added four:

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Euphyes dukesi Lindsey (19), *Poanes viator zizaniae* Shapiro (24), *Atrytone d. delaware* (Edwards) (27), and *Calycopis isobea* (Butler & Druce) (89). Work by MacDonald Fulton added *Harkenclenus titus mopsus* (Hübner) (84) and *Eumaeus atala florida* Röber (88). Work by Roy Strickland added *Megathymus y. yuccae* (Boisduval & LeConte) (1), and work by Charles Daniel added *Speyeria c. cybele* (Fabricius) (129).

In the 1958 list there was only one name for which no preserved specimen could then be located: *Phoebis philea* (Johansson) (76); there is still no known Mississippi specimen of this species. Two of the added species fall into this category; their addition being based only on sight records. The basis for their inclusion is as follows:

Eumaeus atala florida (88). Professor MacDonald Fulton, Department of Bacteriology, Mississippi State College for Women, Columbus, Mississippi wrote to me in October 1969 as follows: "In 1966 I saw and observed for at least 10 minutes here on the campus, *Eumaeus atala* (I assume the species—the genus is easy). It was a perfect specimen. No net." Dr. Fulton discussed this observation further with us and with Charles Bryson. There appears to be no doubt as to what he observed.

Hypolimnas misippus (121). In July and August 1970, Rick Kergosien and a number of his colleagues in Bay St. Louis, Hancock Co., Mississippi took a series of specimens of several species of generally more tropical facies than customary for Mississippi. These included: *Anteos maerula lacordairei* (25 July 70) and *Anartia jatrophae guantanamo* (30 July 70 and substantial numbers later). On 6 August 1970 at Bay St. Louis, he and two others observed a female *Hypolimnas misippus*. It lit, was swung at, was missed, and slowly flew away while being chased for 2–3 min. It went over a roof top and was not seen again. All three observers quickly went to Kergosien's residence to examine a female *H. misippus* in his collection. All three were in complete agreement that this was what they saw. The foregoing is summarized from a letter dated 6 August 1970 from Rick Kergosien to us.

Checklist of Mississippi Butterflies

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| * 1. <i>Megathymus yuccae yuccae</i>
(Boisduval & LeConte) | 7. <i>Amblyscirtes samoset</i> (Scudder) |
| 2. <i>Panoquina panoquin</i> (Scudder) | 8. <i>A. aesculapius</i> (Fabricius) |
| 3. <i>P. ocola</i> (Edwards) | 9. <i>A. carolina</i> (Skinner) |
| 4. <i>Calpododes ethlius</i> (Stoll) | * 10. <i>A. reversa</i> Jones |
| 5. <i>Oligoria maculata</i> (Edwards) | 11. <i>A. vialis</i> (Edwards) |
| 6. <i>Lerodea eufala</i> (Edwards) | 12. <i>A. belli</i> Freeman |
| | 13. <i>A. alternata</i> (Grote & Robinson) |

14. *Atrytonopsis hianna hianna* (Scudder)
 15. *A. loammi* (Whitney)
 16. *Euphyes arpa* (Boisduval & LeConte)
 17. *E. palatka* (Edwards)
 18. *E. dion alabamiae* (Lindsey)
 * 19. *E. dukesi* (Lindsey)
 20. *E. vestris metacomet* (Harris)
 * 21. *Poanes hobomok* (Harris)
 22. *P. zabolon* (Boisduval & LeConte)
 23. *P. yehl* (Skinner)
 * 24. *P. viator zizaniae* Shapiro
 * 25. *Problema byssus* (Edwards)
 26. *Atrytone arogos* (Boisduval & LeConte)
 * 27. *A. delaware delaware* (Edwards)
 28. *Atalopedes campestris* (Boisduval)
 29. *Pompeius verna sequoyah* (Freeman)
 30. *Wallengrenia otho* (Smith)
 * 31. *W. egeremet* (Scudder)
 32. *Polites themistocles* (Latreille)
 33. *P. origenes origenes* (Fabricius)
 34. *P. vibex vibex* (Geyer)
 35. *Hesperia metea* Scudder
 36. *H. attalus seminole* (Scudder)
 37. *Hylephila phyleus phyleus* (Drury)
 38. *Copaeodes minima* (Edwards)
 39. *Ancyloxypha numitor* (Fabricius)
 40. *Lerema accius* (Smith)
 41. *Nastra therminier* (Latreille)
 42. *N. neamathla* (Skinner & Williams)
 43. *Pholisora catullus* (Fabricius)
 44. *Pyrgus communis communis* (Grote)
 45. *P. oileus* (Linnaeus)
 46. *Erynnis brizo brizo* (Boisduval & LeConte)
 47. *E. zarucco* (Lucas)
 * 48. *E. funeralis* (Scudder & Burgess)
 49. *E. martialis* (Scudder)
 50. *E. horatius* (Scudder & Burgess)
 51. *E. juvenalis juvenalis* (Fabricius)
 52. *Staphylus hayhurstii* (Edwards)
 53. *Thorybes bathyllus* (Smith)
 54. *T. pylades* (Scudder)
 55. *T. confusus* Bell
 56. *Achalarus lyciades* (Geyer)
 57. *Autochton cellus* (Boisduval & LeConte)
 58. *Urbanus proteus proteus* (Linnaeus)
 * 59. *U. dorantes dorantes* (Stoll)
 60. *Epargyreus clarus clarus* (Cramer)
 61. *Battus philenor philenor* (Linnaeus)
 62. *P. polyxenes asterius* Stoll
 63. *P. cresphontes cresphontes* Cramer
 64. *P. glaucus glaucus* Linnaeus
 65. *P. troilus troilus* Linnaeus
 66. *P. palamedes palamedes* Drury
 67. *Graphium marcellus* (Cramer)
 68. *Pieris protodice protodice* Boisduval & LeConte
 69. *P. rapae* (Linnaeus)
 70. *Ascia monuste phileta* (Fabricius)
 71. *Colias eurytheme eurytheme* Boisduval
 72. *C. philodice philodice* Godart
 73. *C. (Zerene) cesonia* (Stoll)
 74. *Anteos maerula lacordairei* (Boisduval)
 75. *Phoebis sennae eubule* (Linnaeus)
 76. *P. philea* (Johansson)
 77. *Eurema दौरा दौरा* (Godart)
 78. *E. mexicana* (Boisduval)
 79. *E. lisa lisa* Boisduval & LeConte
 80. *E. nicippe* (Cramer)
 81. *Nathalis iole* Boisduval
 82. *Anthocharis midea midea* (Hübner)
 83. *Calephelis virginiana* Gray
 * 84. *Harkenclenus titus mopsis* (Hübner)
 85. *Satyrium liparops strigosa* (Harris)
 86. *S. kingi* (Klots & Clench)
 87. *S. calanus falacer* (Godart)
 * 88. *Eumaeus atala florida* Röber
 * 89. *Calycopis isobea* (Butler & Druce)
 90. *C. cecrops* (Fabricius)
 91. *Callophrys henrici turneri* Clench
 92. *C. augustinus croesioides* Scudder
 93. *C. niphon niphon* (Hübner)
 94. *C. gryneus gryneus* (Hübner)
 95. *Atlides halesus halesus* (Cramer)
 96. *Euristrymon ontario ontario* (Edwards)
 97. *Panthiades m-album m-album* (Boisduval & LeConte)
 98. *Strymon melinus melinus* Hübner
 99. *Lycaena thoe* Guérin-Méneville
 * 100. *Brephidium isophthalma pseudofea* (Morrison)

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| *101. <i>Leptotes marina</i> (Reakirt) | *121. <i>Hypolimnas misippus</i> (Linnaeus) |
| 102. <i>Hemiargus ceraunus antibubastus</i>
Hübner | 122. <i>Chlosyne nycteis nycteis</i>
(Doubleday) |
| 103. <i>H. isola alce</i> (Edwards) | 123. <i>C. gorgone gorgone</i> (Hübner) |
| 104. <i>Everes comyntas comyntas</i>
(Godart) | 124. <i>Phyciodes texana seminole</i>
(Skinner) |
| 105. <i>Celastrina argiolus pseudargiolus</i>
(Boisduval & LeConte) | 125. <i>P. tharos tharos</i> (Drury) |
| 106. <i>Feniseca tarquinius tarquinius</i>
(Fabricius) | 126. <i>P. phaon</i> (Edwards) |
| 107. <i>Libytheana bachmanii bachmanii</i>
(Kirtland) | *127. <i>Euphydryas phaeton ozarkae</i>
Masters |
| 108. <i>Anaea andria andria</i> Scudder | 128. <i>Speyeria diana</i> (Cramer) |
| 109. <i>Asterocampa celtis celtis</i>
(Boisduval & LeConte) | *129. <i>S. cybele cybele</i> (Fabricius) |
| 110. <i>A. clyton clyton</i> (Boisduval &
LeConte) | 130. <i>Euptoieta claudia</i> (Cramer) |
| 111. <i>Limenitis arthemis astyanax</i>
(Fabricius) | 131. <i>Heliconius charitonius tuckeri</i>
Comstock & Brown |
| 112. <i>L. archippus watsoni</i> (dos Passos) | 132. <i>Agraulis vanillae nigrior</i> Michener |
| *113. <i>Anartia jatrophae guantanamo</i>
Munroe | 133. <i>Danaus plexippus plexippus</i>
(Linnaeus) |
| 114. <i>Vanessa atalanta rubria</i>
(Fruhstorfer) | 134. <i>D. gilippus berenice</i> (Cramer) |
| 115. <i>Cynthia virginienensis</i> (Drury) | 135. <i>Lethe portlandia missarkae</i>
Heitzman & dos Passos |
| 116. <i>C. cardui</i> (Linnaeus) | *136. <i>L. anthedon</i> (Clark) |
| 117. <i>Precis coenia</i> (Hübner) | 137. <i>L. creola</i> (Skinner) |
| 118. <i>Nymphalis antiopa antiopa</i>
(Linnaeus) | *138. <i>L. appalachia appalachia</i>
Chermock |
| 119. <i>Polygonia interrogationis</i>
(Fabricius) | 139. <i>Cyllopsis gemma gemma</i>
(Hübner) |
| 120. <i>P. comma</i> (Harris) | 140. <i>Euptychia areolata areolata</i>
(Smith) |
| | 141. <i>E. hermes sosybia</i> (Fabricius) |
| | 142. <i>E. cymela cymela</i> (Cramer) |
| | 143. <i>Cercyonis pegala abbotti</i> Brown |

Note added in proof: Species No. 144, *Erynnis baptisiae* (Forbes), was added to the list of those known from Mississippi as a result of one male having been taken on 19 March 1976 by Mike Rickard at the Big Biloxi Recreation Area, Harrison Co., on blackberry blossoms along the railroad track. The determination was confirmed by Dr. John M. Burns who previously (1964) regarded it as "rather surprising" that it had not then yet been found in Mississippi.

LITERATURE CITED

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