

ON BUTTERFLIES COLLECTED BY MALCOLM A. SMITH AND
C. BODEN KLOSS IN SOUTHERN ANNAM.

BY E. J. GODFREY, B. Sc., F. E. S.

The collection of which an account is given in this paper was made by Dr. Malcolm Smith and Mr. Boden Kloss during the course of an expedition to the Lang Bian plateau, S. Annam, French Indo-China.

The collecting stations to which reference is made were:—

(1) Daban	650 feet.
(2) Sui Kat (Dran)	3000 "
(3) Dalat	5000 "
(4) Lang Bian peaks	6000 "

Owing to the fact that the collecting of butterflies was only a secondary object of the expedition the series obtained was not a very large one, but several specimens of considerable interest were secured.

Herr Fruhstorfer, who with a number of trained collectors visited much the same district in 1901, has recorded in Seitz's "Macro-lepidoptera of the World" a number of butterflies of the country. I have combined the results of the expedition of Smith and Kloss with Fruhstorfer's records in Seitz.

It should, however, be understood that the "Macro-lepidoptera of the World" is incomplete and does not include the Lycanidæ and Hesperiidæ.

FAMILY PAPILIONIDÆ.¹

1. PAPILIO ARISTOLOCHIÆ GONIOPELTIS Rothsch.

Thirteen specimens, Daban.

Not recorded from Annam by Jordan.

2. PAPILIO CLYTIA PAPONE Westw.

One specimen, Daban.

¹ Jordan also records from Annam;—

Papilio castor phanrangensis Fruhst. (The Siamese race is *P. castor mahadeva* Moore.)

Papilio antiphates pompilius Fabr.

Papilio doson acion Fldr. (= *eurypylus* Hbn.)

Leptocircus meges virescens Btlr.

Not recorded from Annam by Jordan.

3. PAPILO DEMOLEUS MALAYANUS Wall.

Two specimens, Daban.

Jordan (Seitz, Macro-lep. 9, p. 48.) states that some of the specimens obtained by Fruhstorfer in Annam are distinguished by specially broad patches. These are known as ab. *annamiticus* Fruhst.

4. PAPILO POLYTES POLYTES Linn.

Two specimens, Daban.

Not recorded from Annam by Jordan.

5. PAPILO AGETES AGETES Westw.

One specimen, Sui Kat.

6. PAPILO NOMIUS SWINHOEI Moore.

Two specimens, Dalat.

FAMILY PIERIDÆ²

7. LEPTOSIA XIPHIA XIPHIA Fabr.

Two specimens, Daban.

8. DELIAS DESCOMBESI LEUCACANTHA Fruhst.

One specimen, Sui Kat.

Not recorded from Annam by Fruhstorfer.

9. DELIAS AGLAIA THYRA Fruhst.

One specimen, Dalat.

10. HUPHINA NERISSA DAPHA Moore.

Four specimens, Daban.

Not recorded from Annam by Fruhstorfer.

11. HUPHINA NADINA NADINA Luc.

Two specimens, Daban.

12. APPIAS LIBYTHEA ZELMIRA Cr.

Two ♂, one ♀, Daban.

13. APPIAS LYNCIDA HIPPOIDES Moore.

² Fruhstorfer also records from Annam :—

Delias agostina annamitica Fruhst.

Prioneris thestylis jugurtha Fruhst.

Ixias pyrene annamitica Fruhst.

Terias lacteola lacteola Dist.

Pareronia valeria hippia Fabr.

One ♀, Daban.

14. *APPIAS ALBINA CONFUSA* Fruhst.

Two ♀, Daban.

Not recorded from Annam by Fruhstorfer.

15. *TERIAS LETA PSEUDOLETA* Moore.

Three specimens, Daban.

16. *TERIAS BLANDA DAVIDSONI* Moore.

Five specimens, Daban.

17. *GANDACA HARINA BURMANA* Moore. (= *ANNAMICA* Moore).

Two specimens, Daban.

FAMILY NYMPHALIDÆ.

Sub-family DANAINÆ³

18. *DANAIS CHRYSIPPUS CHRYSIPPUS* Linn.

Two specimens, Daban.

19. *DANAIS PLEXIPPUS PLEXIPPUS* Linn.

Three specimens, Daban.

20. *DANAIS MELISSA SEPTENTRIONIS* Btlr.

Two specimens, Daban.

21. *DANAIS AGLEA PHORMION* Fruhst.

Two specimens, Daban.

22. *DANAIS SIMILIS PERSIMILIS* Moore.

Two specimens, Daban.

A wet-season aberration found in Annam and Tonkin is known as ab. *hyria* Fruhst.

23. *EUPLÆA GODARTI* Luc. (= *SIAMENSIS* Fldr.)

Six specimens, Daban.

24. *EUPLÆA HARRISI HARRISI* Fldr.

Seven specimens, Daban.

25. *EUPLÆA MULCIBER MULCIBER* Cr.

Four specimens, Daban.

³ Fruhstorfer also records from Annam :—

Euplœa deione limborgi Moore.

Euplœa diocletianus diocletianus Fabr.

Sub-family SATYRINÆ[†]

26. YPTHIMA HUEBNERI HUEBNERI Kirby.

One specimen, Daban.

27. YPTHIMA BALDUS BALDUS Fabr.

Two specimens, Daban. These are of the dry-season form which Fruhstorfer calls *marshalli* Btlr.

28. LETHE EUROPA NILADANA Fruhst.

Two specimens, Daban.

Not recorded from Annam by Fruhstorfer.

29. LETHE MINERVA subsp?

Fruhstorfer (Seitz, Macro-lep. 9, p. 318.) divides the species into two races: *minerva* Fabr., from Java and Sumatra, and *tritogenia* Fruhst., from Tenasserim and Burma. The two specimens obtained are most probably referable to the latter race, as also are Siamese specimens.

30. LETHE MEKARA subsp?

One specimen, Daban.

This agrees exactly with Siamese specimens sent by me to the British Museum, and is probably referable to the race *crijnana* Fruhst. from Tonkin which Fruhstorfer says is probably distributed to Tenasserim.

31. MYCALESIS MINEUS MINEUS Linn.

Nine specimens, Daban.

32. MYCALESIS PERSEOIDES PERSEOIDES Moore,

One specimen, Daban.

33. ORSOTRIENA MEDUS Fabr.

One specimen, Daban.

Not recorded from Annam by Fruhstorfer.

34. MELANITIS ZITENIUS subsp?

Seven specimens, Daban. These correspond with Siamese specimens sent by me to the British Museum, but not yet identified.

35. ELYMNIA HYPERMNESTRA UNDULARIS Drury.

One specimen, Daban.

[†] Fruhstorfer also records from Annam :-

Ypthima asterope annamitica Fruhst.

Mycalesis gotama charaka Moore.

Melanitis phedima ganypati Fruhst.

Sub-family MORPHINÆ.

36. FAUNIS EUMEUS INCERTA Stgr.
Two specimens, Lang Bian peaks.
37. DISCOPHORA CONTINENTALIS SEMINECHO Stich.
One badly damaged specimen, Dalat.

Sub-family NYMPHALINÆ.⁵

38. ERGOLIS MERIONE PHARIS Fruhst.
Two specimens, Daban.
39. CUPHA ERYMANTHIS LOTIS Sulz.
One specimen, Daban.
40. ATELLA PHALANTA PHALANTA Drury.
One specimen, Daban.
41. PRECIS IPHITA IPHITA Cr.
Four specimens, Daban.
Not recorded from Annam by Fruhstorfer.
42. PRECIS ATLITES ATLITES Linn.
One specimen, Daban.
43. PRECIS ALMANA ALMANA Linn.
One specimen, Daban.
Not recorded from Annam by Fruhstorfer.
44. PRECIS LEMONIAS ÆNARIA Fruhst.
Three specimens, Daban.
45. CYRESTIS THYODAMAS THYODAMAS Bsdv.
One specimen, Daban.
46. RAHINDA HORDONIA HORDONIA Stoll.
Two specimens, Daban.
Fruhstorfer distinguishes between two seasonal forms:
hordonia Stoll., referring to the w. s. f., and *plagiosa* Moore to the
d. s. f.
47. RAHINDA PARAKA ASSAMICA Moore.
One specimen, Daban.
48. NEPTIS HYLAS ACERIDES Fruhst.
Twelve specimens, Daban.

Fruhstorfer distinguishes between two seasonal forms :
sangaica Moore and *acerides* Fruhst.

49. NEPTIS MIAH NOLANA Druce.

One specimen, Daban.

50. PANTOPORIA PERIUS PERIUS Linn.

One badly damaged specimen, Daban.

51. LEBADEA MARTHA Fabr.

One specimen, Daban.

Fruhstorfer distinguishes between two seasonal forms :
martha Fabr., referring to the w. s. f. and *attenuata* Moore, to the
 d. s. f.

52. PARTHENOS SYLVIA APICALIS Moore.

One specimen, Sui Kat.

53. EUTHALIA DIRTEA JADEITINA Fruhst.

One ♂, Sui Kat.

Not recorded from Annam by Fruhstorfer.

54. EULEPIS EUDAMIPPUS NIGROBASALIS Lathy.

One specimen, Sui Kat.

Not recorded from Annam by Fruhstorfer.

FAMILY NEMEOBIDÆ.

55. ZEMEROS FLEGYAS Cr.

Two specimens, Daban.

5 Fruhstorfer also records from Annam :—

Penthema darlisa annamitica Fruhst.

Cethosia biblis viridiana Fruhst.

Cethosia cyane euanthes Fruhst.

Symbrenthina hippoclus daruca Moore.

Precis orithya ocyale Hbn.

Cyrestis cocles cocleoides Fruhst. (The Siamese race is *C. cocles cocles* Fabr.)

Chersonesia risa transiens Mart.

Neptis magadha annamitica Fruhst.

Neptis soma pseudadipala Fruhst. (The Siamese race is *N. soma tushita* Fruhst.)

Neptis columella martabana Moore.

Euthalia julii indochinensis Fruhst (The Siamese race is *E. julii odilina* Fruhst.)

Euthalia kesava sastra Fruhst. (The Siamese race is *E. kesava dicipilota* Moore)

Euthalia evelina annamita Moore.

56. *TAXILA THUISTO* EPHORUS Fruhst.

One specimen, Daban.

57. *ABISARA META SIAMENSIS* Fruhst,

One specimen, Daban.

FAMILY LYCÆNIDÆ.

Sub-family LYCÆNINÆ.

58. *NEOPITHECOPS ZALMORA* Btlr.

Two specimens, Daban.

59. *CASTALIUS ROSIMON* Fabr.

One specimen, Sui Kat.

60. *CASTALIUS ROXUS ANGUSTIOR* Stand.

One specimen, Daban.

61. *ZIZERA GAIKA* Trimen.

Two specimens, Daban.

62. *CYANIRIS PUSPA IMPERATRIX* Btlr.

One specimen, Daban.

63. *LYCÆNESTHES EMOLUS* Godart.

One specimen, Daban.

64. *LAMPIDES CELENO* Cr.

One specimen, Sui Kat.

65. *CATOCHRYSOPS STRABO* Fabr.

One specimen, Daban.

Sub-family THECLINÆ.

66. *APHNÆUS SYAMA PEGUANA* Moore

One specimen, Daban.

Sub-family ARHOPALINÆ.

67. *ARHOPALA CENTAURUS* Fabr.

Three specimens, Daban.

68. *ARHOPALA ALEA* Hew.

One specimen, Daban.

Sub-family DEUDORIGINÆ.

69. *CAMENA COTYS* Hew.

Two specimens, Daban.

70. *CHERITRA FREJA* Fabr.

Ten specimens, Daban.

71. *LOXURA ATYMNUS* Cr.

One specimen, Daban.

FAMILY HESPERIIDÆ.

Sub-family HESPERIINÆ.

72. *ODONTOPTILUM ANGULATA* Fldr.

One specimen, Daban.

73. *TAGIADES ATTICUS* Fabr.

Two specimens, Daban.

Sub-family PAMPHILINÆ.

74. *AMPITTIA MARO* Fabr.

One specimen, Daban.

75. *ASTICTOPTERUS OLIVASCENS* Moore.

Two specimens, Daban.

76. *NOTOCRYPTA FEISTHAMELII* Bsdv.

Two specimens, Daban.

77. *LOTONGUS CALATHUS* Hew.

Two specimens, Daban.

78. *HALPE MOOREI BETURINA* Fruhst.

One specimen, Sui Kat.

79. *PARNARA MATHIAS* Fabr.

Three specimens, Daban.

80. *PARNARA AUSTENI* Moore.

One specimen, Daban.

81. } These correspond with Siamese specimens of mine

82. } numbered [284] and [386] respectively, sent to the

British Museum but not yet identified.