

Autumn butterflies on the Island of Chios (Greece) (Lepidoptera : Papilionoidea & Hesperioidea)

David E. GASKIN & Elizabeth A. LITTLER

Samenvatting. Najaarsvlinders op het eiland Chios (Griekenland) (Lepidoptera : Papilionoidea & Hesperioidea)

De auteurs presenteren een lijst van waarnemingen van dagvlinders op het Griekse eiland Chios in de periode van 15 tot 25 september 1985. Hierbij worden 4 taxa vermeld als nieuw voor de dagvlinderfauna van dit eiland : *Pieris mannii* (MAYER, 1851), *Pontia daplidice* (LINNAEUS, 1758), *Charaxes jasius* (LINNAEUS, 1767) en *Hipparchia fatua* (FREYER, 1845). Interessante bijzonderheden van de fenologie van sommige soorten worden toegelicht. Het artikel bevat ook enkele rechtzettingen van foutieve determinaties, weergegeven in een voorgaand artikel (GASKIN & LITTLER 1986) : de meldingen van het eiland Chios van *Nordmannia acaciae* (FABRICIUS, 1787) en *Melitaea cinxia* (LINNAEUS, 1758) verwijzen in feite naar resp. *Satyrrium ilicis* (ESPER, 1779) en *Melitaea phoebe* (DENIS & SCHIFFERMÜLLER, 1775). De melding van *Strymonidia spini* (DENIS & SCHIFFERMÜLLER, 1775) van het eiland Samos beruiste tevens op een foutieve determinatie : ook hier betreft het *Satyrrium ilicis* (ESPER, 1779).

Résumé. Papillons diurnes d'automne de l'île de Chios (Grèce) (Lepidoptera : Papilionoidea & Hesperioidea)

Les auteurs présentent une liste d'observations de papillons diurnes effectuées sur l'île grecque de Chios pendant la période du 15 au 25 septembre 1985. A cette occasion, 4 espèces sont mentionnées comme nouvelles pour la faune de cette île : *Pieris mannii* (MAYER, 1851), *Pontia daplidice* (LINNAEUS, 1758), *Charaxes jasius* (LINNAEUS, 1767) et *Hipparchia fatua* (FREYER, 1845). Ainsi des particularités de la phénologie de certaines espèces sont exposées. L'article contient également quelques rectifications de déterminations fautives qui furent publiées dans un article précédent (GASKIN & LITTLER 1986) : les mentions de la présence sur l'île de Chios de *Nordmannia acaciae* (FABRICIUS, 1787) et *Melitaea cinxia* (LINNAEUS, 1758) concernent en fait resp. *Satyrrium ilicis* (ESPER, 1779) et *Melitaea phoebe* (DENIS & SCHIFFERMÜLLER, 1775). La mention de *Strymonidia spini* (DENIS & SCHIFFERMÜLLER, 1775) de l'île de Samos est également le fruit d'une erreur : ici également il s'agit de *Satyrrium ilicis* (ESPER, 1779).

Gaskin, D.E. : Department of Zoology, University of Guelph, Guelph, Ontario, Canada, N1G 2W1.

Littler, E.A. : 2231 Partridge Pt. Road, Alpena, Michigan, U.S.A., 49707.

Introduction

Information on butterfly species known from Chios Island in Greece, which is situated on the central western coast of Turkey, approximately half way between the islands of Lesbos and Samos, was published recently by the present authors (GASKIN & LITTLER 1986). These data were from May 1984. The island was also collected in March and the latter part of May 1986 and in May and June 1987 by A. OLIVIER (personal communication of mostly published data). Some of his 1986 records have already been published (OLIVIER 1987). OLIVIER added 10 more species (of which he observed 9 himself) to the 33 previously recorded by the present authors; two of the 33 - *Nordmannia acaciae* (FABRICIUS, 1787) and *Melitaea cinxia* (LINNAEUS, 1758) - were found later, on examination of the genitalia by DEG to be misidentifications. The specimens were resp. *Satyrrium ilicis* (ESPER, 1779) and *Melitaea phoebe* (DENIS & SCHIFFERMÜLLER, 1775), noted by OLIVIER.

It is worth mentioning that the specimens of *Strymonidia spini* (DENIS & SCHIFFERMÜLLER, 1775) recorded for Samos in that article were also a misidentification; these were also found to belong to *S. ilicis* on genitalic characters, although each bore a small bluish patch of scales near the anal angle of the hindwing, which led to the original misidentification.

Material described in this paper was collected in the period September 15-25, 1985. In all, 23 species were recorded. In the present work we add *Pieris mannii*, *Pontia daplidice*, *Charaxes jasius* and *Hipparchia fatua* to the list for Chios, bringing the total to 46 species. Specimens of *Maniola chia*, described as new by THOMSON (1987), were referred to as *M. telmessia* (ZELLER, 1847) in the previous paper by us, prior to his description.

As might be expected, many of the specimens taken in Chios in the autumn were worn or tattered, especially the satyrids, having been on the wing for extensive periods. The summer had been even more hot and dry than usual and during June-August of 1985, many fires had broken out on the island. Much of the excellent collecting grounds close to Nea Moni worked by us in 1984 had been ravaged for several hundred acres and a fire was still burning near Langada, threatening the monastery of Agios Anagyron, during our visit. Another badly burned area was present between Katavasis and Agios Isidoros, and innumerable smaller areas of damage were noted in nearly all forest and scrub-covered parts of the island. Strong dusty winds from the south made collecting difficult, especially in the afternoons. The low total of 22 species from this collecting represents not only the lateness of the season, but also the extant conditions. Nevertheless, interesting data on the flight periods of species in the late summer - early autumn were obtained. As in the previous paper, names of localities use the spelling in the Toubis series of island maps. They are as shown by GASKIN & LITTLER (1986, fig. 1); new locality names are shown in fig. 1 of the present paper.

Results

Papilionidae

Papilio machaon LINNAEUS, 1758 : Marmaron, on flowers along cliff edge; Kardamyla, in clearings on pine-forested ridge; Kambia, along roadside.
Iphiclides podalirius (LINNAEUS, 1758) : Marmaron, visiting lemon trees; Kardamyla, flying with *machaon* but usually higher around the tree tops; Perparia, on edge of freshly burned area; Nea Moni, over burned olive terraces; Vrondatos, flying over gardens; Kambos, beside road; Pityous, near small turret at outskirts of the village; Pirgi, one specimen in the plateia.

Pieridae

Colias crocea (FOURCROY, 1785) : Marmaron, abundant in a damp area with about a hectare of sedges and many wildflowers; Kambia; Patrika.
Pieris brassicae (LINNAEUS, 1758) : Marmaron, one tattered specimen in garden.

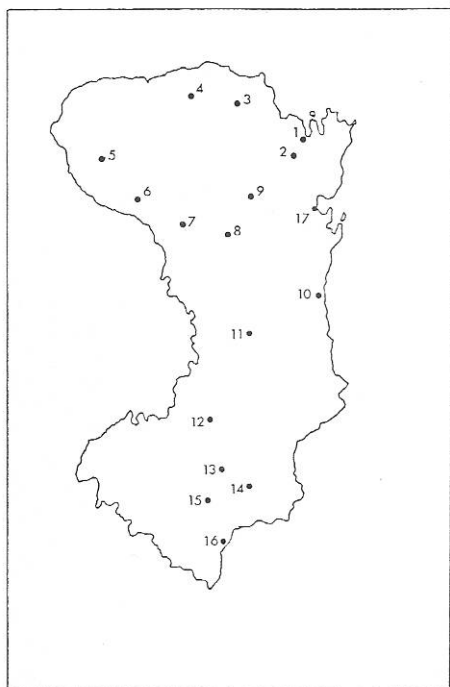


Figure 1 : The island of Chios, Greece :
Collecting localities and other places
mentioned in the text :

1. Marmaron, 2. Kardamyla, 3. Vikion,
4. Kambia, 5. Perparia, 6. Volissos,
7. Katavasis, 8. Ag. Isidoros, 9. Pityous,
10. Vrontatos, 11. Nea Moni, 12. Vessa,
13. Armolia, 14. Patrika, 15. Pirgi,
16. Emborios, 17. Langada.

Pieris rapae (LINNAEUS, 1758) : Marmaron, Kardamyla, Armolia, Vessa, Pityous, Vikion. Kambia, Perparia; on agricultural margins and in gardens.

Pieris manni (MAYER, 1851) : Emborios, single male specimen in damp area near road (genitalia examined).

Pontia daplidice (LINNAEUS, 1758) : Marmaron, one specimen; Patrika, many freshly emerged specimens flying over small fields of cruciferous plants.

Lycaenidae

Lycaena phlaeas (LINNAEUS, 1761) : Marmaron, settling on cliff top paths; Kardamyla, in clearings on ridge; Kambia, common on patch of chamomile by a spring.

Celastrina argiolus (LINNAEUS, 1758) : Marmaron-Kardamyla old road, common in flight around trees and visiting some late bramble flowers.

Polyommatus icarus (ROTTEMBURG, 1775) : Marmaron, on damper patches on agricultural terraces; Kambia, common on patch of chamomile surrounding a spring.

Aricia agestis (DENIS & SCHIFFERMÜLLER, 1775) : Kardamyla, few specimens on bare ground with scattered herbs on south side of ridge crest; Volissos, one specimen on road verge.

Nymphalidae

- Charaxes jasius* (LINNAEUS, 1767) : Kardamyla; several specimens in sweeping flights back and forth along upper ridge over town, almost always returning to the same branches to rest.
- Vanessa cardui* (LINNAEUS, 1758) : Kardamyla, one faded specimen on ridge above town, one other in area with thistles on the old road to Marmaron.
- Vanessa atalanta* (LINNAEUS, 1758) : Marmaron, two specimens in dried marsh area to east of town, one on wall in old road area to Kardamyla.
- Polygonia egea* (CRAMER, 1775) : Marmaron, common in the village, sitting on walls.
- Maniola chia* THOMSON, 1987 : Marmaron, Kardamyla, Kambia, Pityous, Volissos, Perparia, Nea Moni, Kambos, Vessa, Armolia, Patrika, Emborios. Females only, all tattered and worn.
- Lasiommata megera* (LINNAEUS, 1767) : Marmaron, one tattered specimen on agricultural margin.
- Kirinia roxelana* (CRAMER, 1777) : Marmaron, in gullies along cliff edge to west of the village; Kardamyla, sitting on walls along old road.
- Hipparchia syriaca* (STAUDINGER, 1871) : Kardamyla, abundant in dry bed of branch of Amithountas River; Kambia, one or two along fire breaks.
- Hipparchia aristaeus senthes* (FRUHSTORFER, 1908) : Marmaron, under trees to west of village and on open cliff top; Kardamyla, Kambia, Vikion, common under mastic trees; Katavasis, a few around burnt pine groves; Nea Moni, one on rocks of burnt terrace.
- Hipparchia fatua* (FREYER, 1845) : Kardamyla, worn specimens abundant among trees; Kambia, Volissos, common on dry olive terraces.
- Pseudochazara anthelea* (HÜBNER, [1824]) : Kardamyla, one specimen taken on ridge above the town.

Hesperiidae

- Carcharodus alceae* (ESPER, 1780) : Kardamyla, fairly common in open areas on the ridge and in open parts of the old road; Kambia, several noted by roadside; Patrika, one on agricultural margin.

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