

EUROPEAN INVERTEBRATE SURVEY

PROVISIONAL ATLAS
OF THE
INSECTS OF THE BRITISH ISLES

Edited by John HEATH.

Part 1

LEPIDOPTERA RHOPALOCERA

Butterflies

(Maps 1 to 57)

Biological Records Centre, Monks Wood Experimental Station,
Abbots Ripton,
Huntingdon.

1970.

INTRODUCTION

This Provisional Atlas of the Insects of the British Isles has been prepared using the methods evolved by Dr. Franklyn Perring for the "Atlas of the British Flora" published for the Botanical Society of the British Isles by Thomas Nelson and Sons Ltd. in 1962.

The maps in Part 1 have been prepared from records sent in to the Biological Records Centre by participants in the Lepidoptera Distribution Maps Scheme with the addition of some data from the literature. Records received up to 31st December, 1969 are included. Up-dated maps will be prepared from time to time as the scheme progresses.

Each spot represents a verified record from the 10 Km square in which it appears.

Only two date classes are shown on the maps although records are being collected from three periods. For the present series of maps the two date classes 'pre-1940' and '1940 to 1960' have been lumped together. When more journals have been scrutinised it is hoped that sufficient data will become available to enable these two periods to be separated.

Only the resident British species are included.

The univoltine and bivoltine forms of Aricia agestis (Brown Argus and Northern Brown Argus) are treated as separate species although some authors consider these to be only sub-species.

A situation map is given which shows from which squares records have been received. By comparing the maps of species with this map it is possible to determine to some extent whether or not the absence of a species from any particular area is real, or likely to be due to absence of records. Later situation maps will indicate the actual number of species recorded in each square and will thus enable more precise deductions to be made.

A composite map of Rhamnus cathartica and Frangula alnus, the food plants of Gonepteryx rhamni (Brimstone) have been included as there is already a very good correlation of this species with its food plant.

Similarly good correlations of the calcicole species, Lysandra coridon (Chalk Hill Blue) and Lysandra bellargus (Adonis Blue) are already shown with the appropriate geological features.

Although other correlations may be apparent great care should be taken in interpreting the data especially the ratio of 'pre-1960' to '1960 onwards' records. In some cases absence of records in the '1960 onwards' class will be due to incomplete data rather than actual absence.

Acknowledgments

To all the 620 recorders who contributed records used for the maps our best thanks are due. They will be acknowledged personally in the final Atlas. I should also like to thank Dr. F.H. Perring for his support and encouragement and the assistant staff of the Biological Records Centre, especially Rosemarie Cooke, Elizabeth Tasker and Michael Skelton who were responsible for processing the data and making the maps.

20th October, 1970

John HEATH

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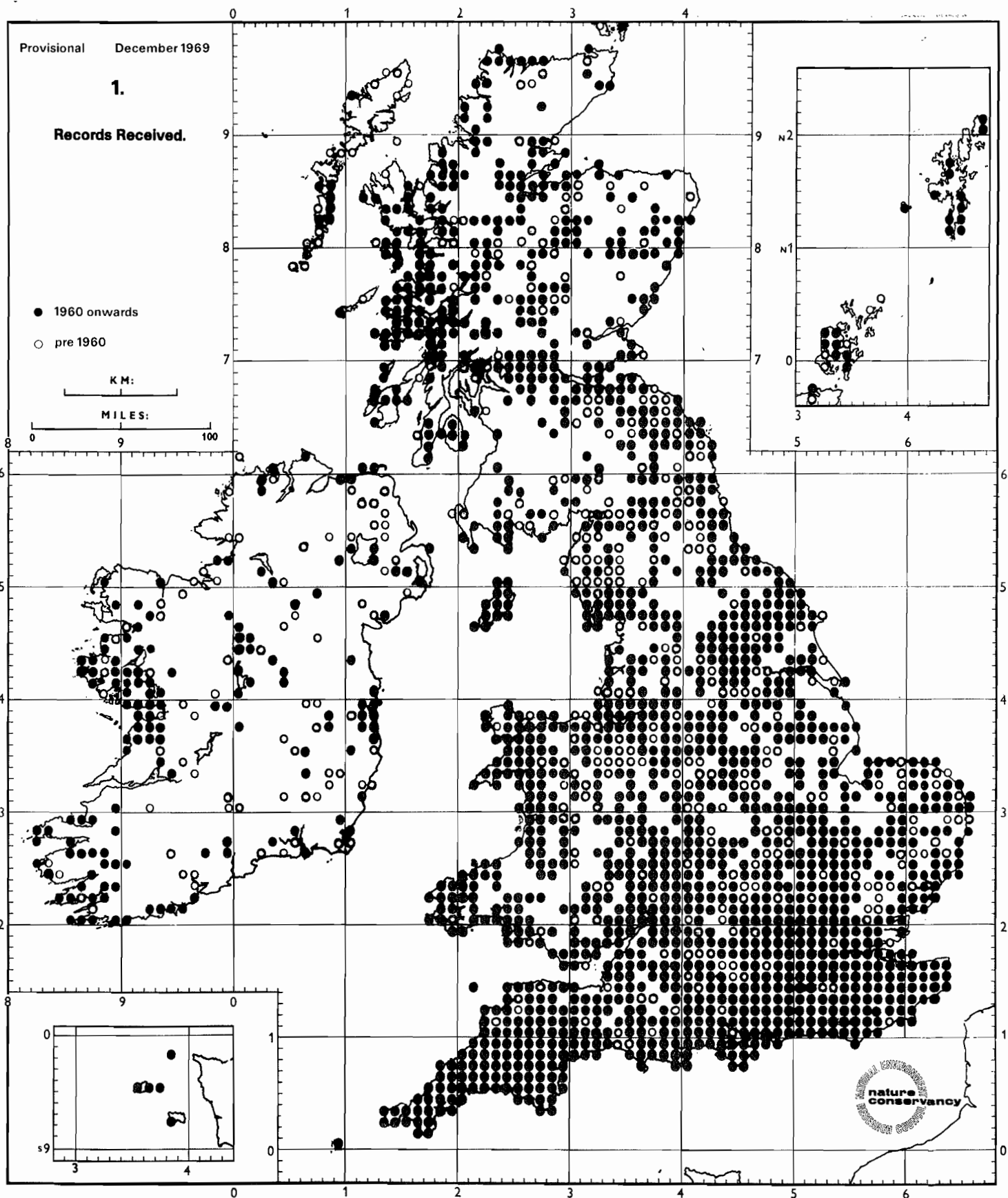
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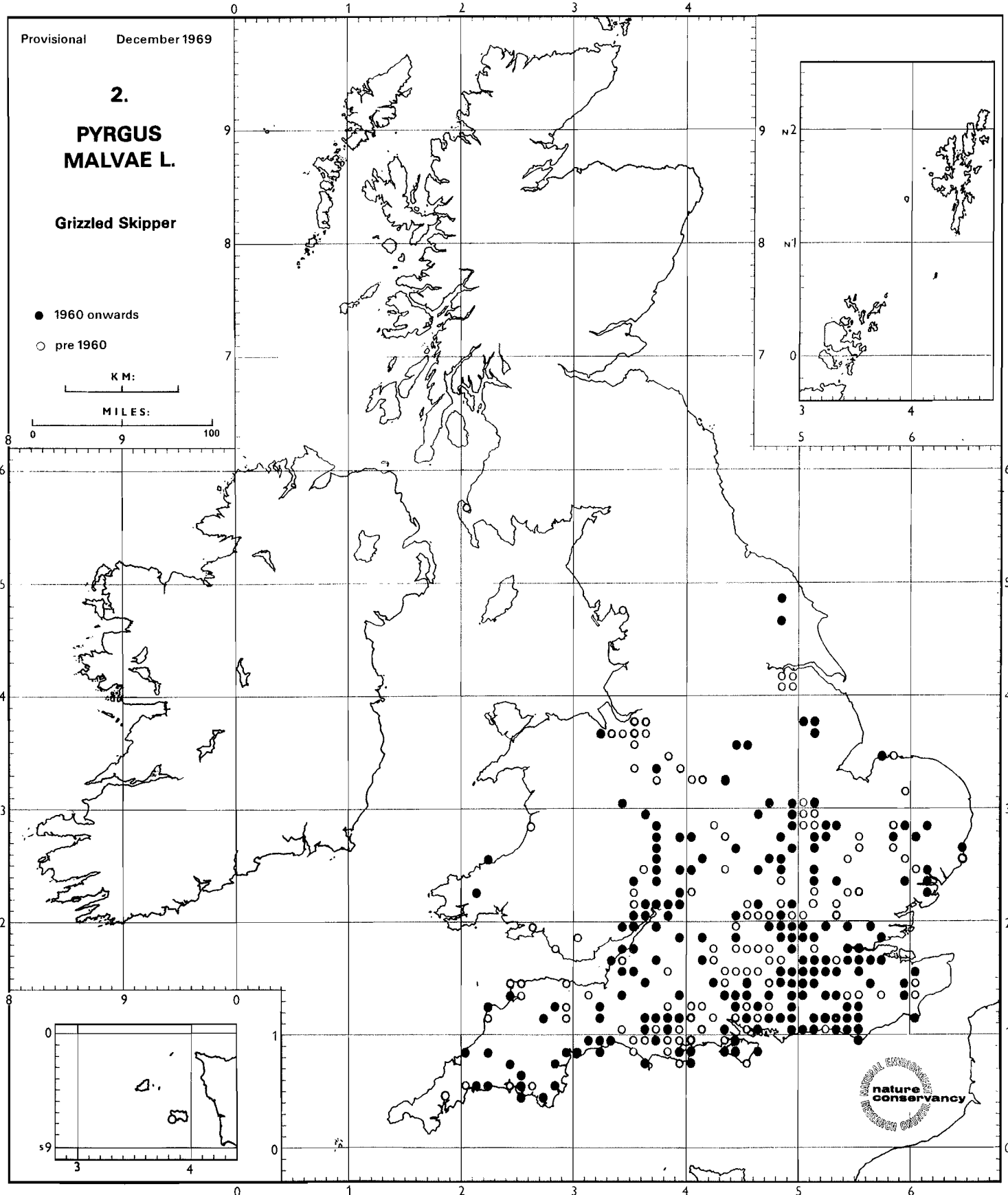
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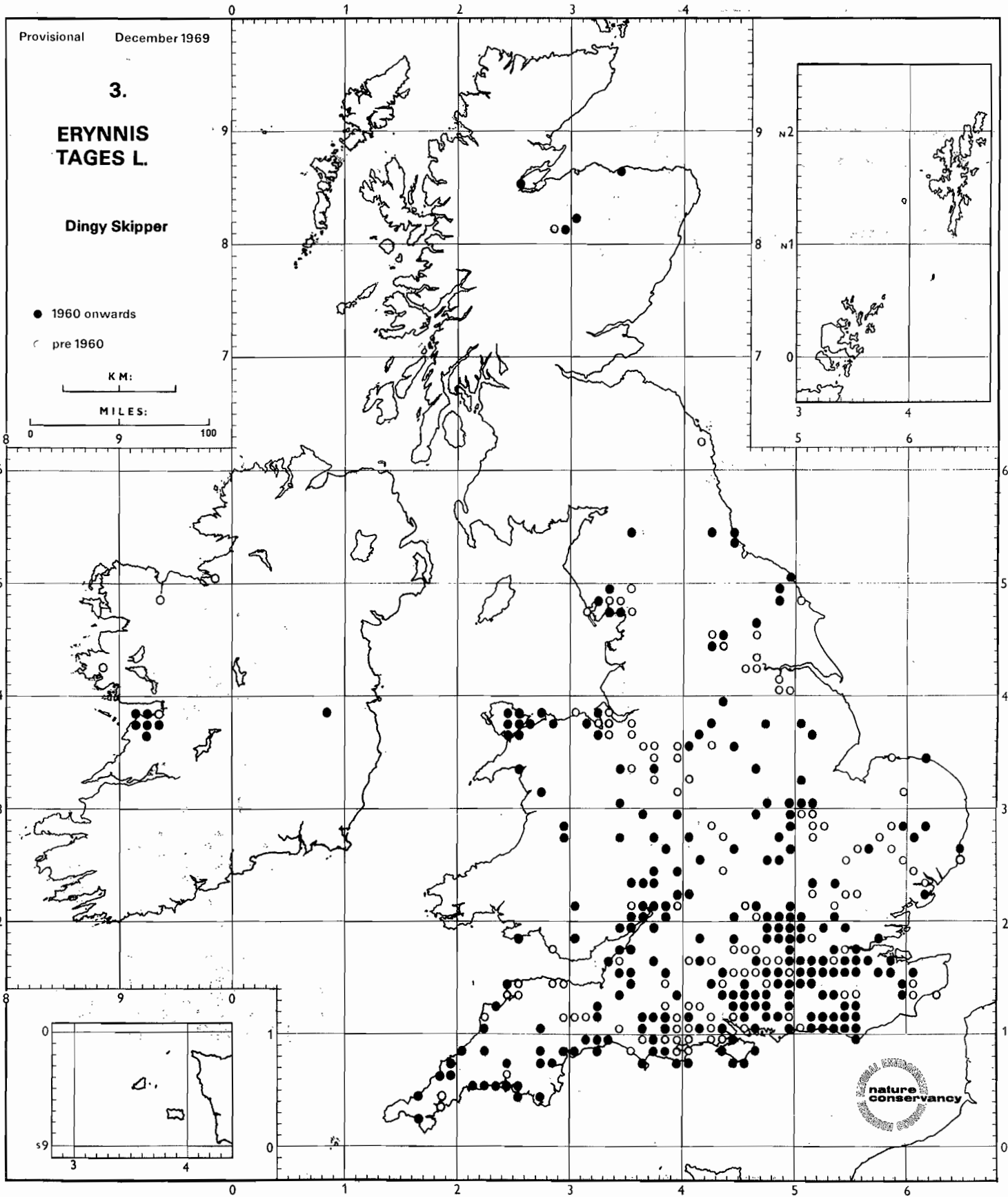
- 1960 onwards
- pre 1960

K M:
MILES:

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4.

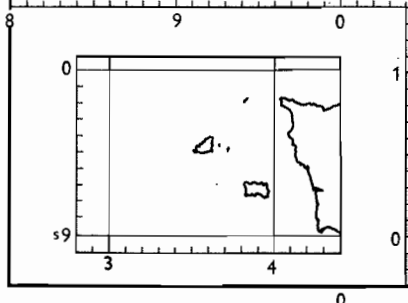
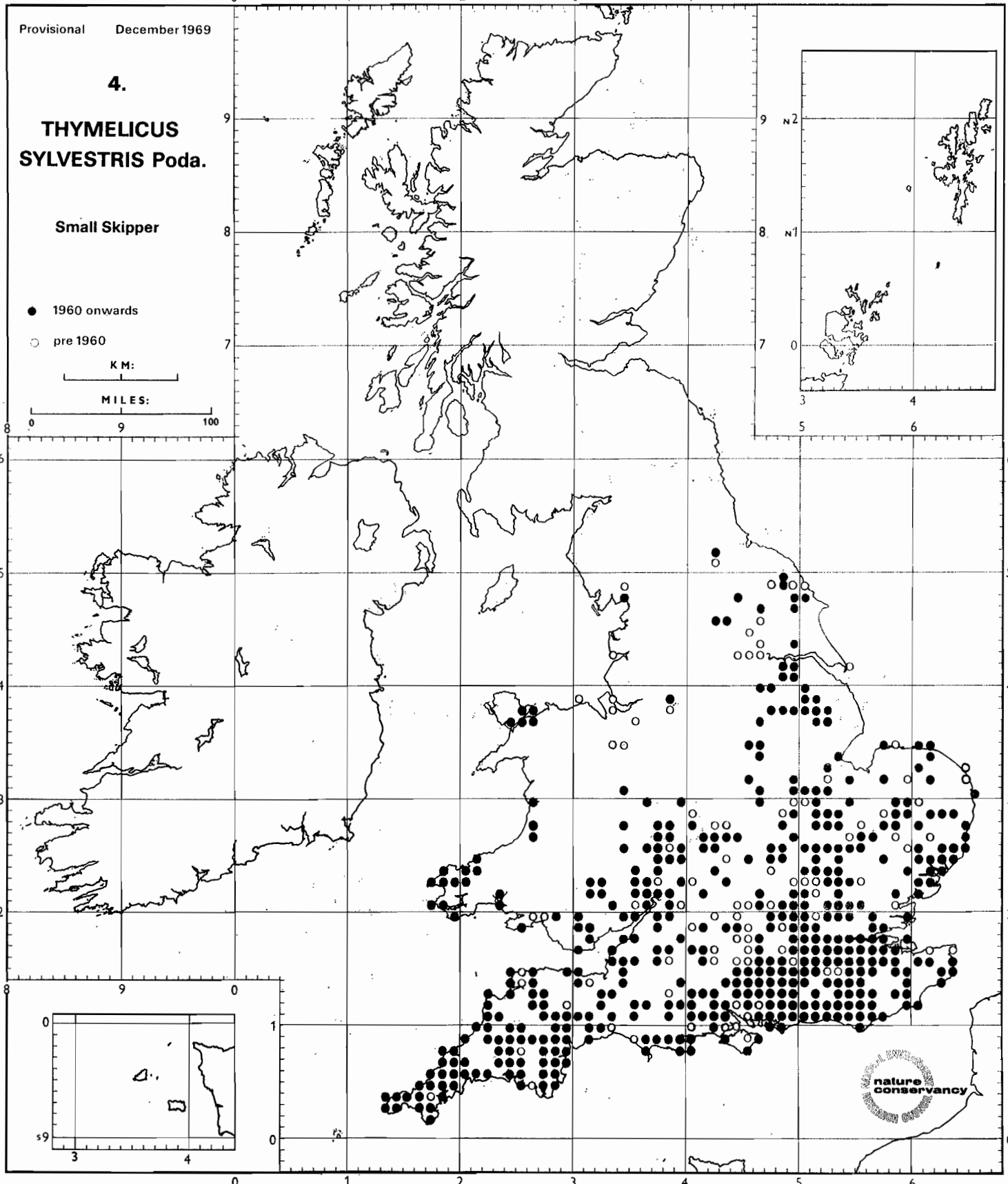
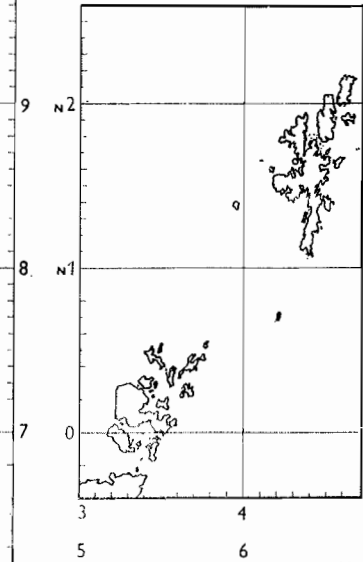
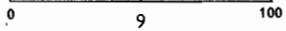
THYMELICUS SYLVESTRIS Poda.

Small Skipper

- 1960 onwards
- pre 1960

KM:

MILES:

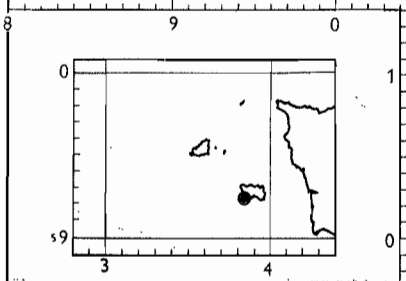
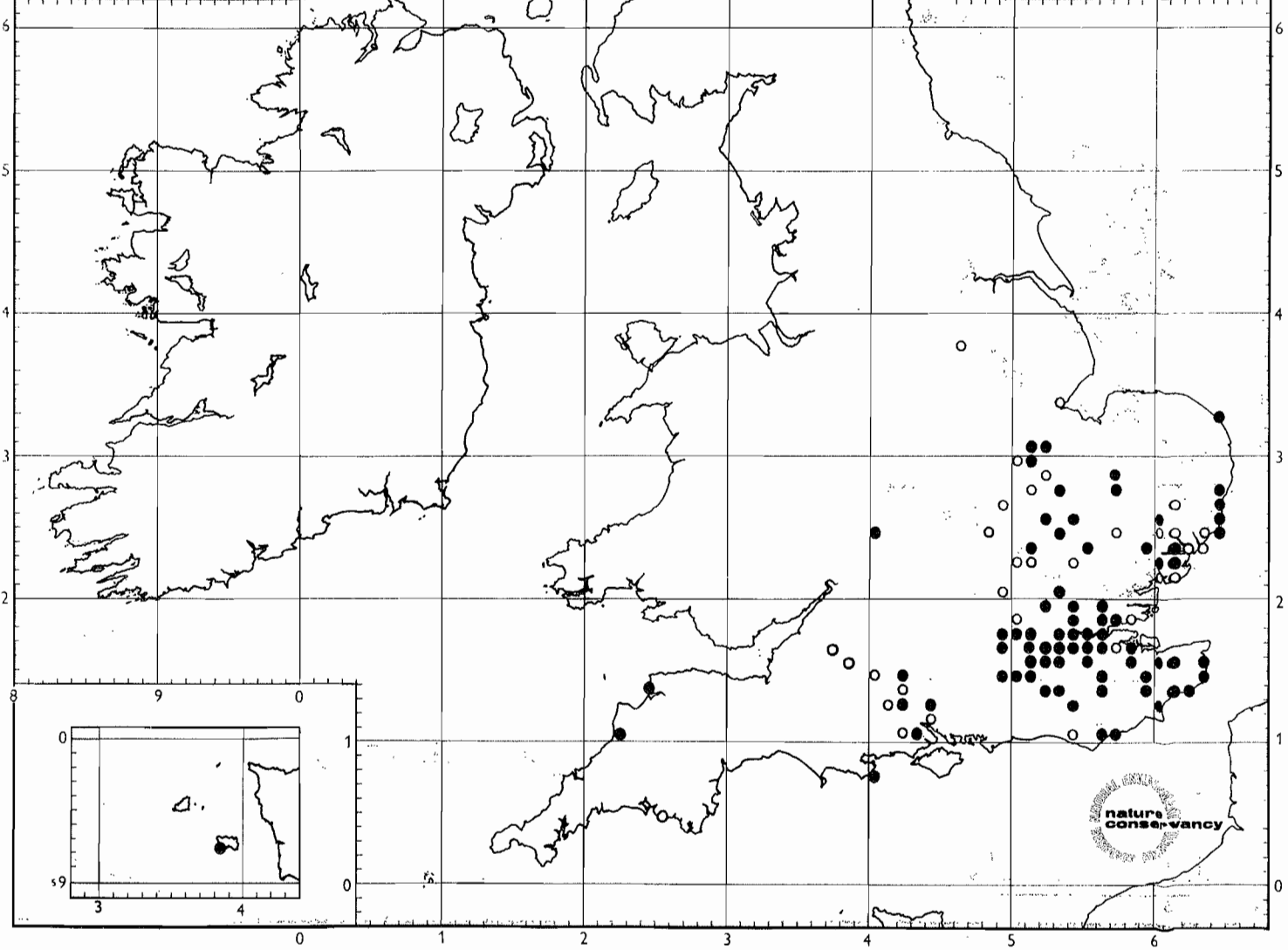
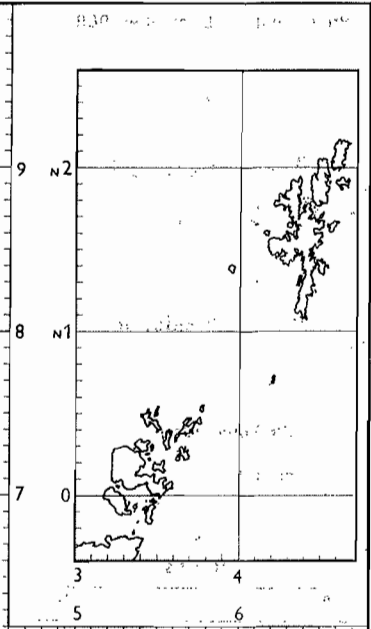
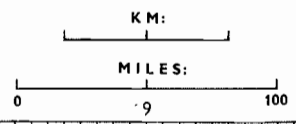


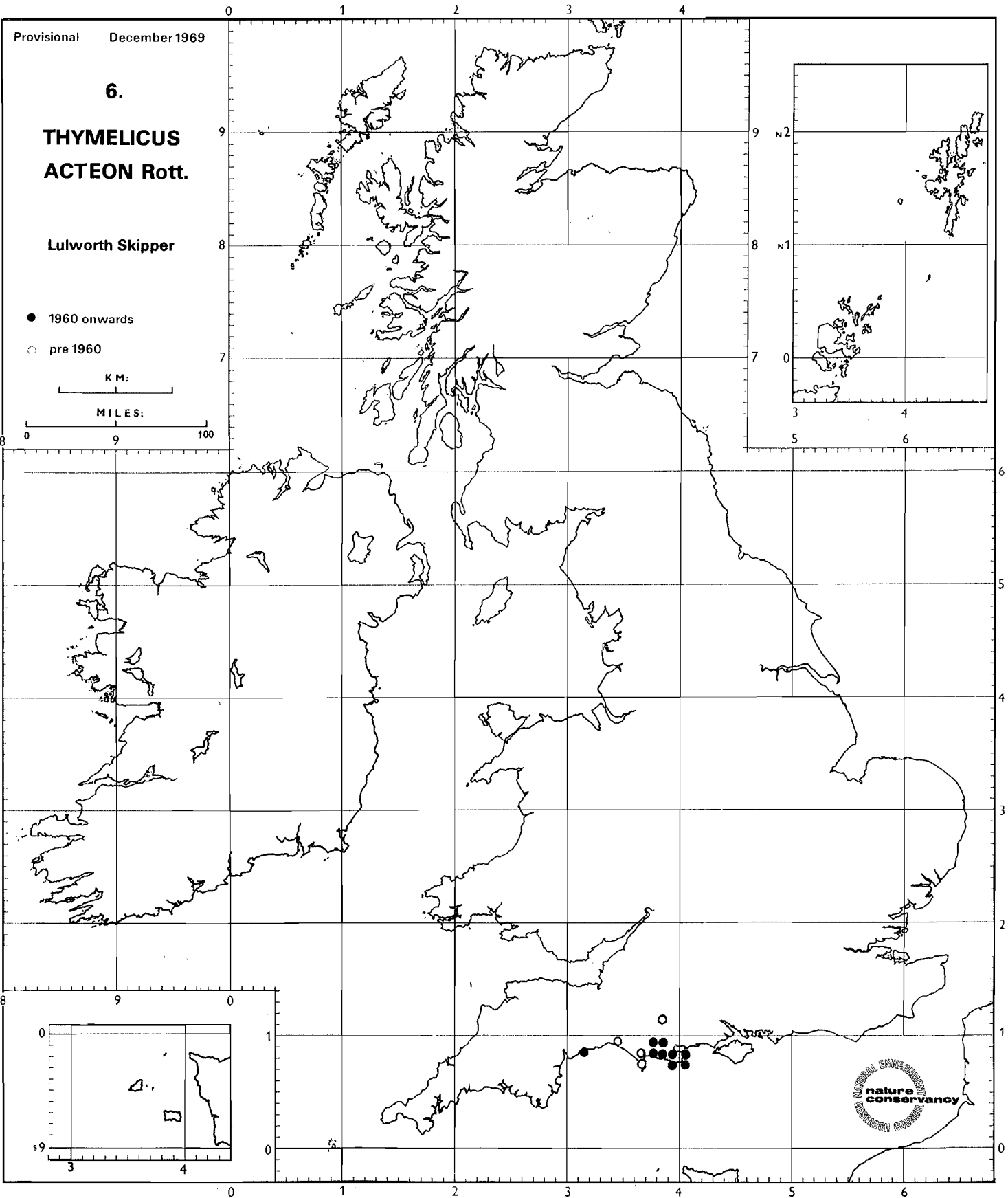
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5. THYMELICUS LINEOLA Ochs.

Essex Skipper

- 1960 onwards
- pre 1960





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7.

OCHLODES

VENATA Br. & Grey

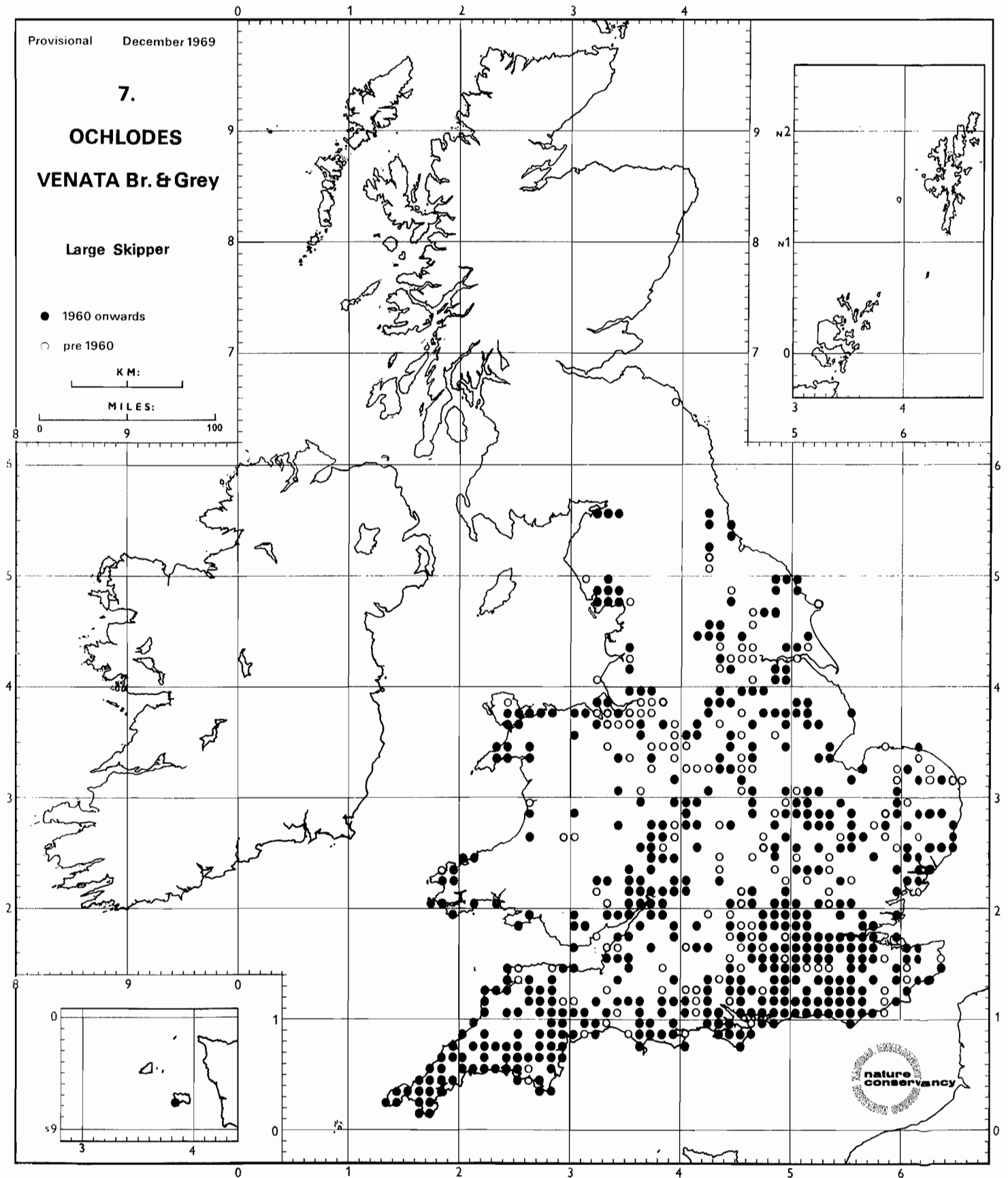
Large Skipper

- 1960 onwards
- pre 1960

K M:

M I L E S:

0 9 100



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8.

HESPERIA COMMA L.

Silver-spotted Skipper

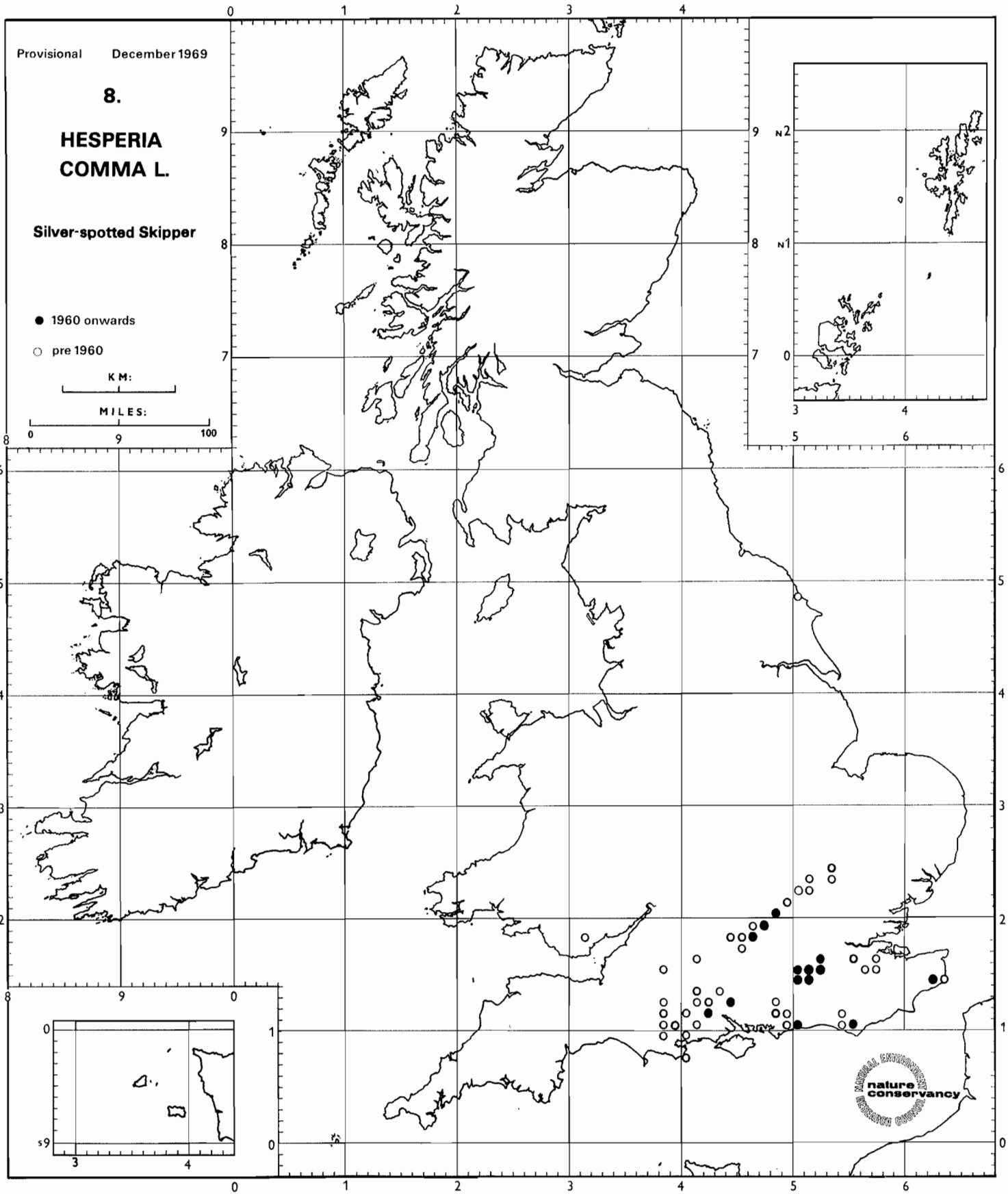
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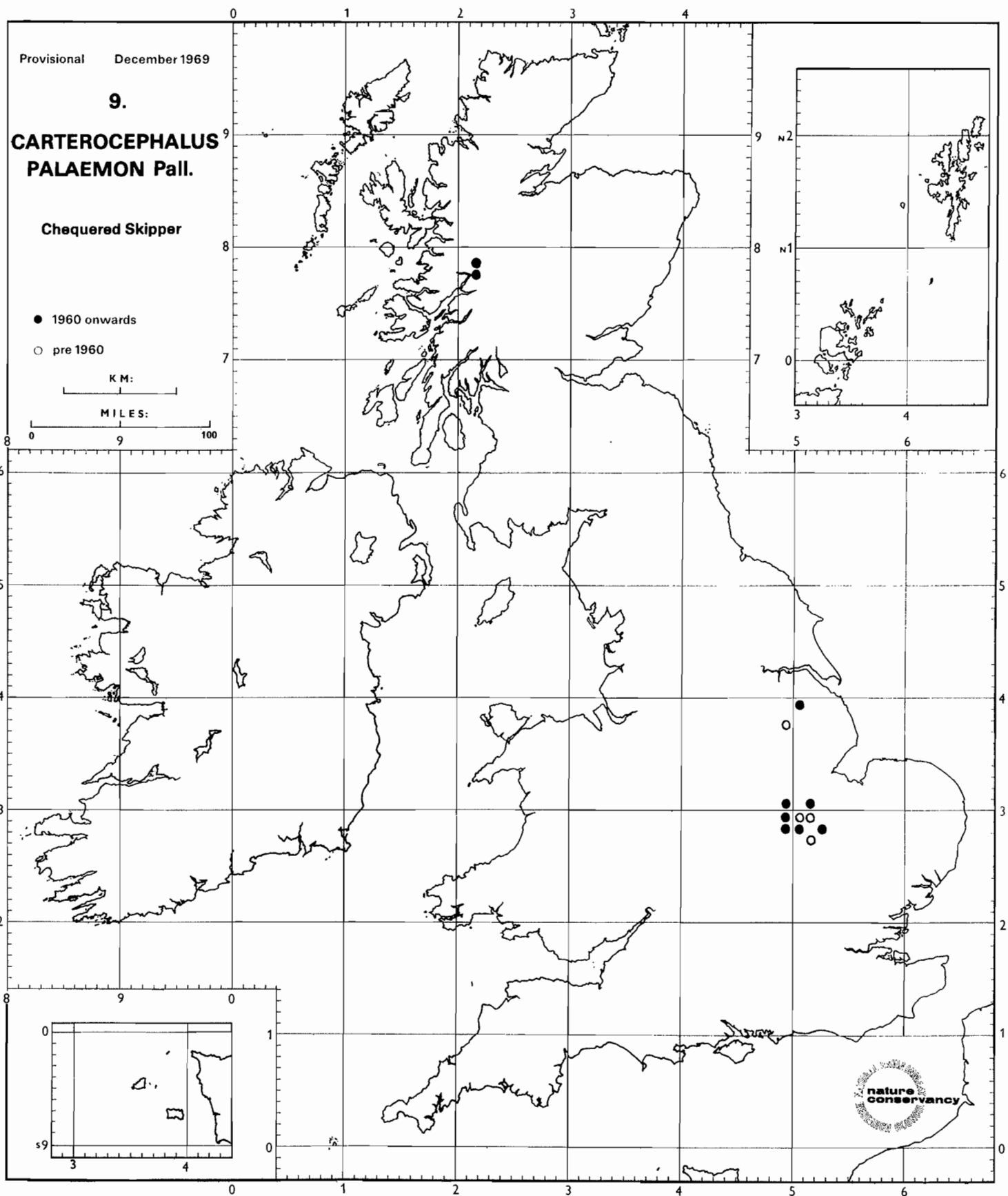
○ pre 1960

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M I L E S:

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10. PAPILIO MACHAON L.

Swallowtail

X Casuals & Migrants.

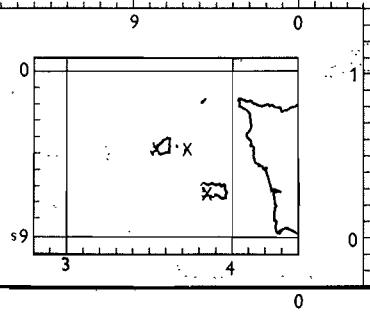
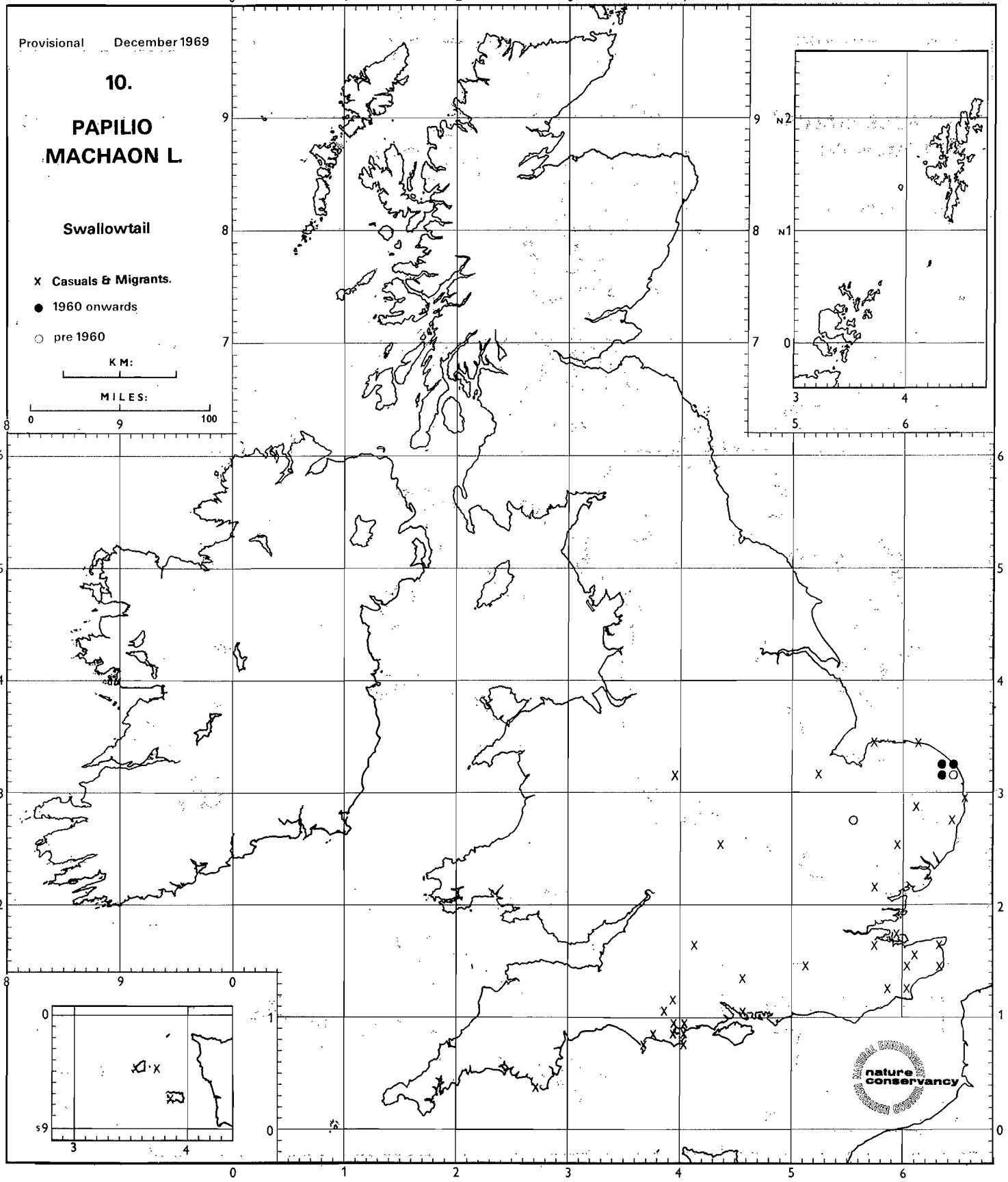
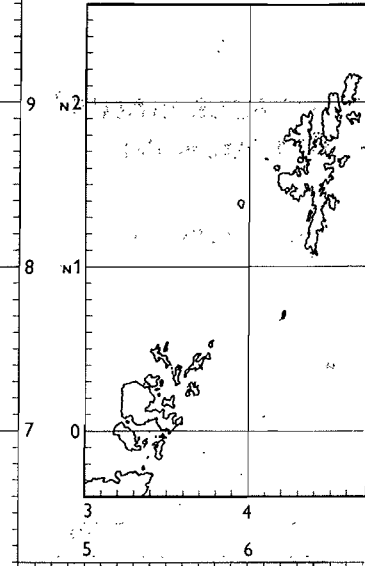
● 1960 onwards

○ pre 1960

K M:

M I L E S:

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14.

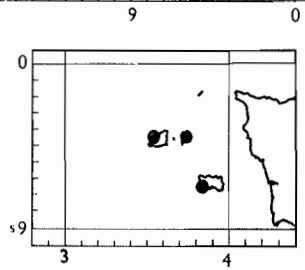
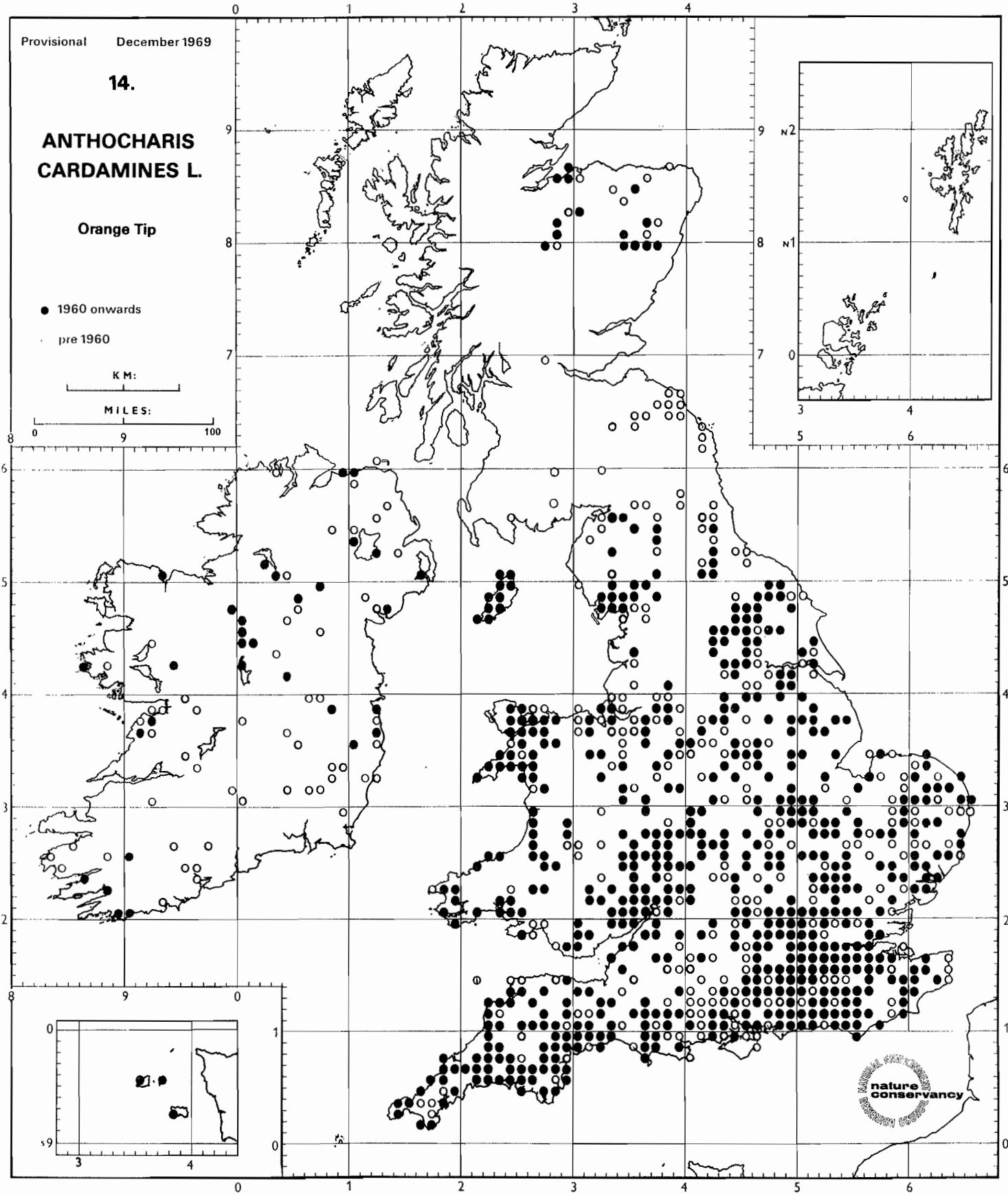
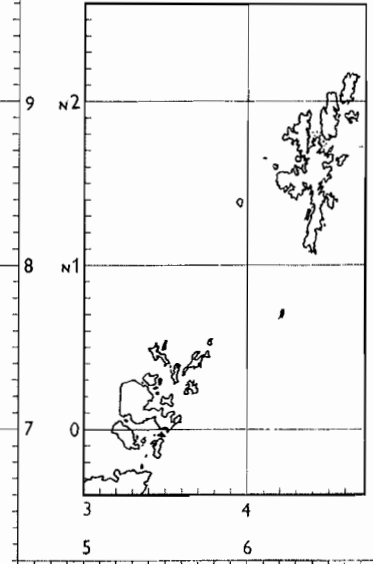
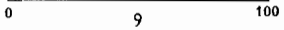
ANTHOCHARIS CARDAMINES L.

Orange Tip

- 1960 onwards
- pre 1960

K M:

MILES:



Provisional December 1969

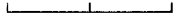
16.

GONEPTERYX RHAMNI L

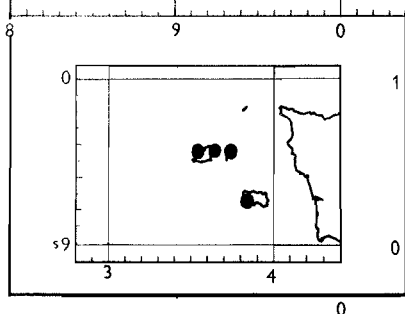
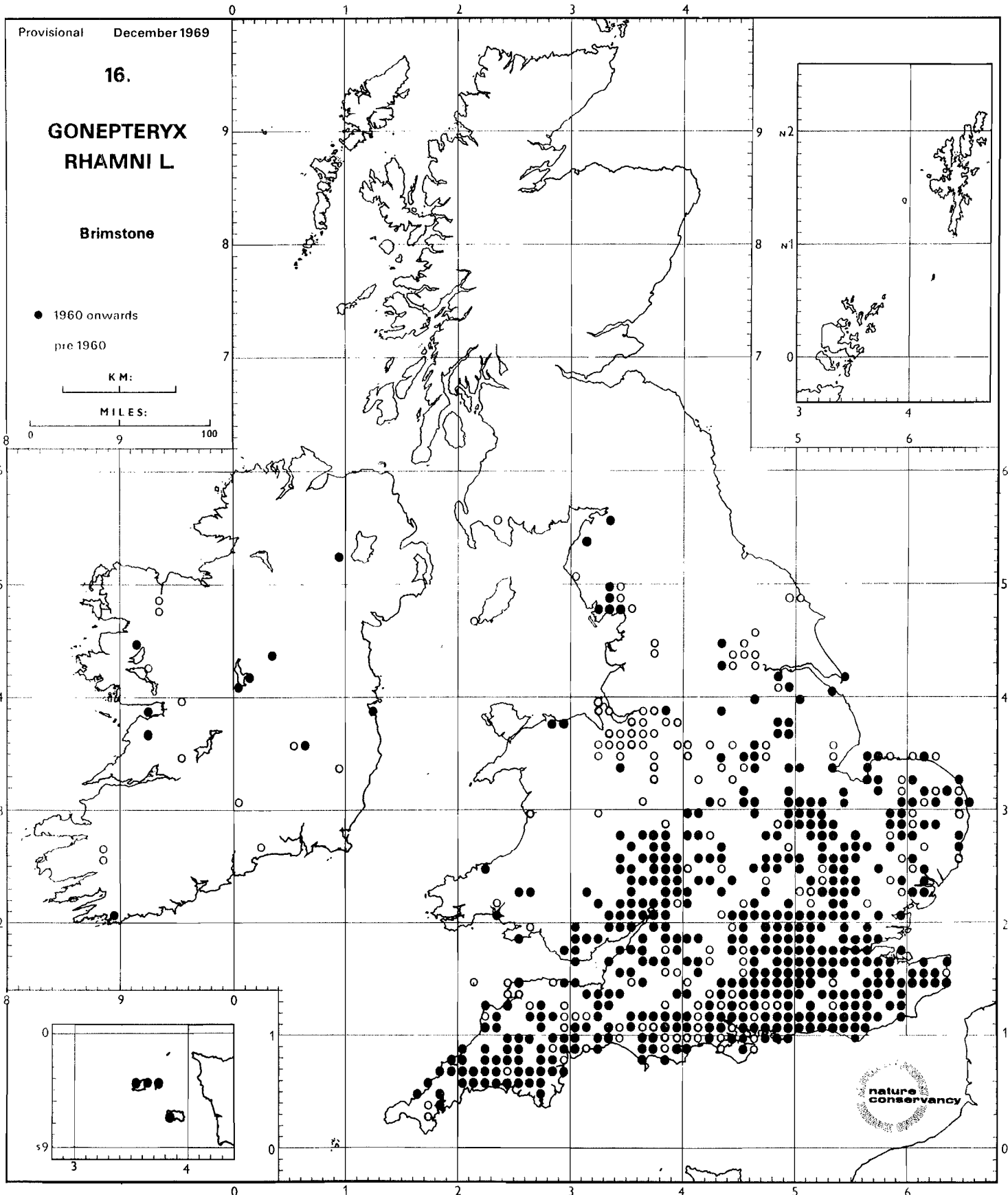
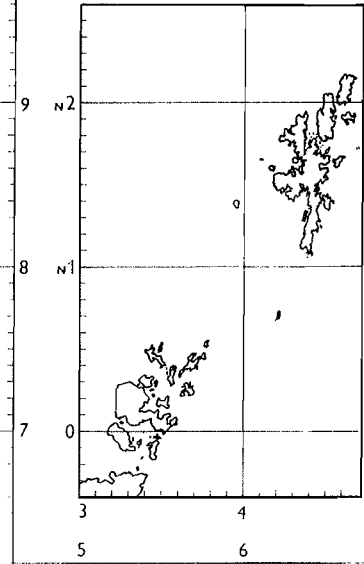
Brimstone

- 1960 onwards
- pre 1960

KM:



MILES:



17.

**RHAMNUS
CATHARTICA L.**

Buckthorn

FRANGULA

ALNUS Mill.

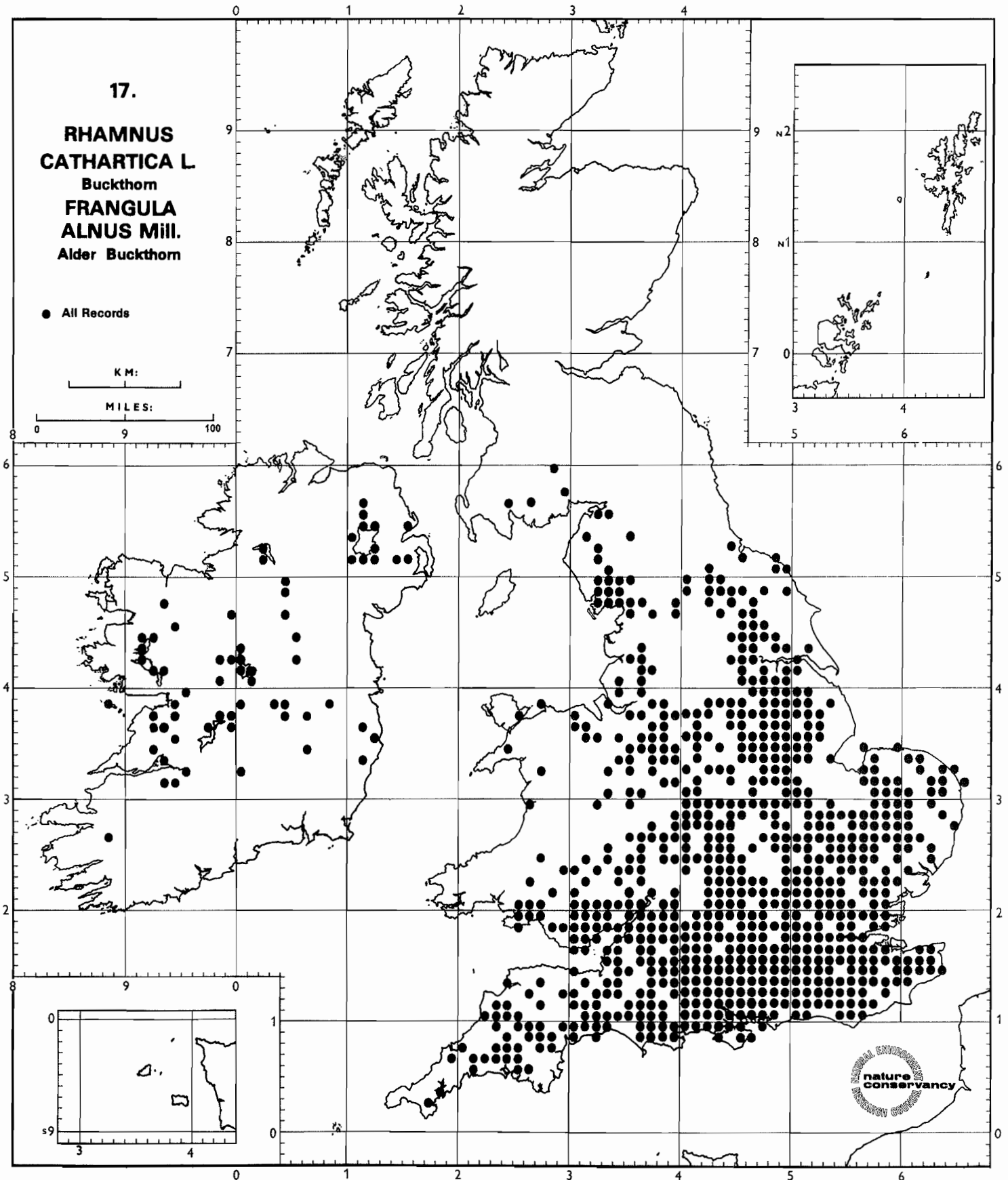
Alder Buckthorn

● All Records

K.M:

MILES:

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20.
STRYMONIDIA
PRUNI L.

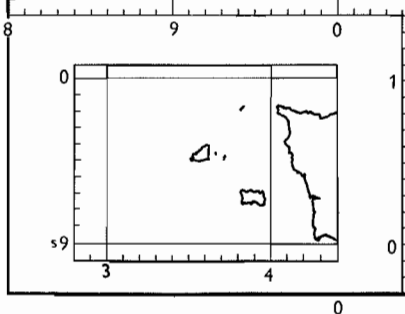
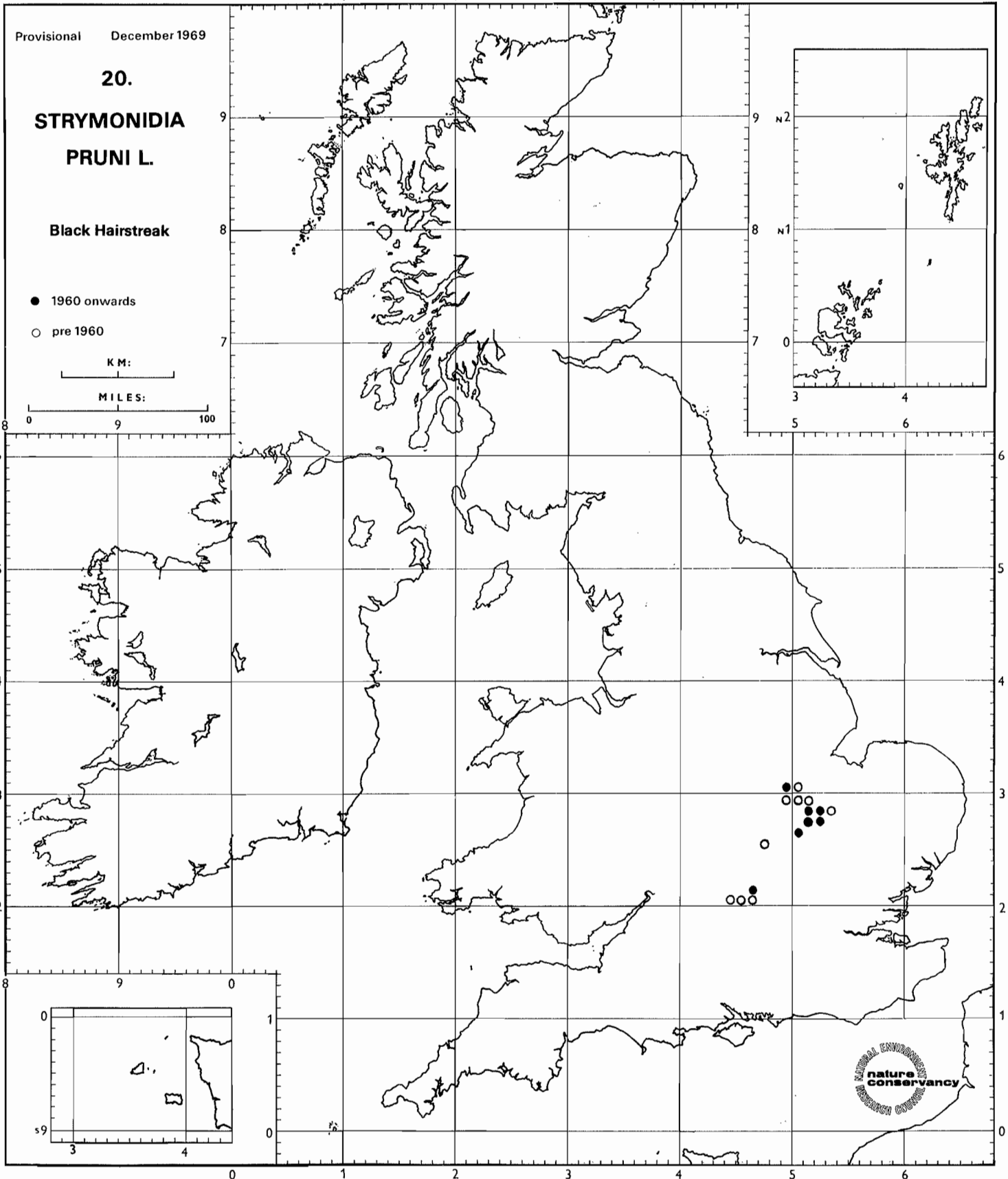
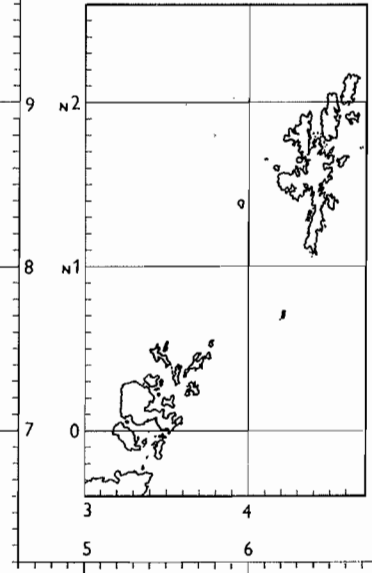
Black Hairstreak

- 1960 onwards
- pre 1960

KM:



MILES:



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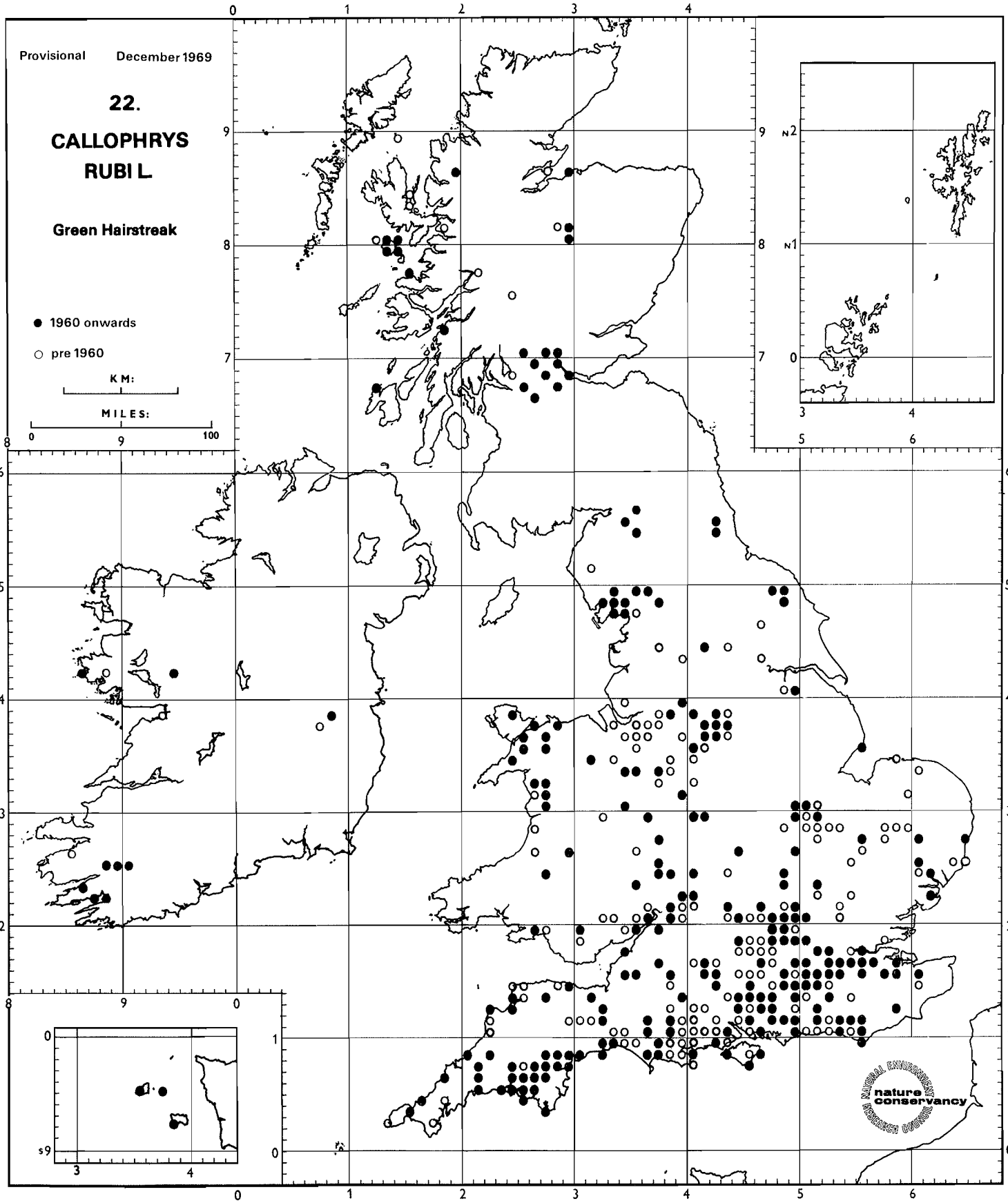
22. CALLOPHRYS RUBI L

Green Hairstreak

- 1960 onwards
- pre 1960

K M:

M I L E S:



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24.

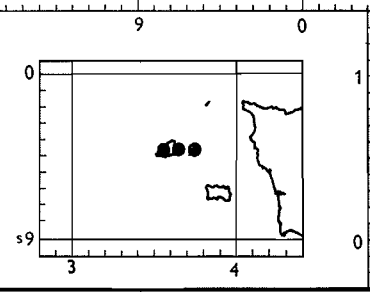
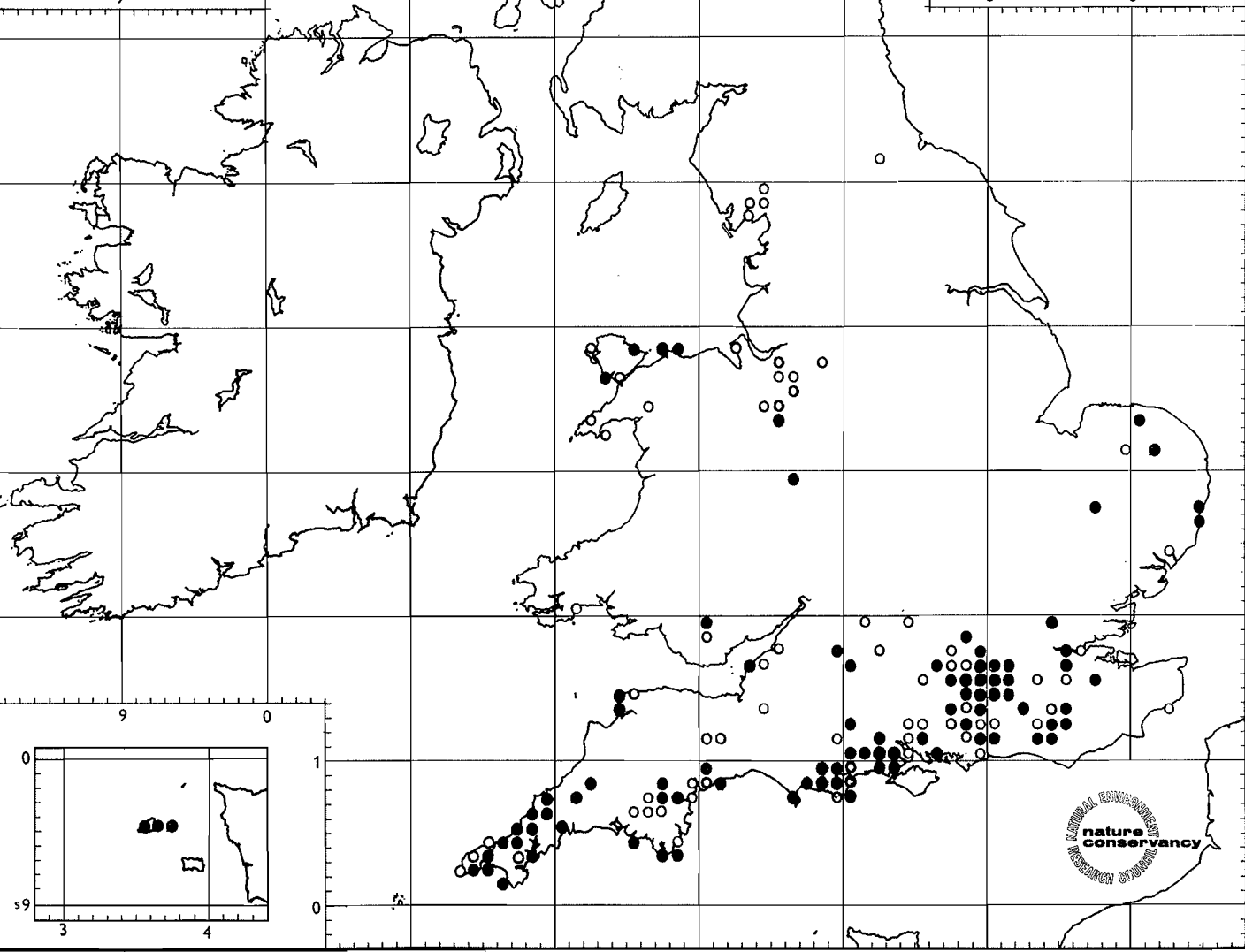
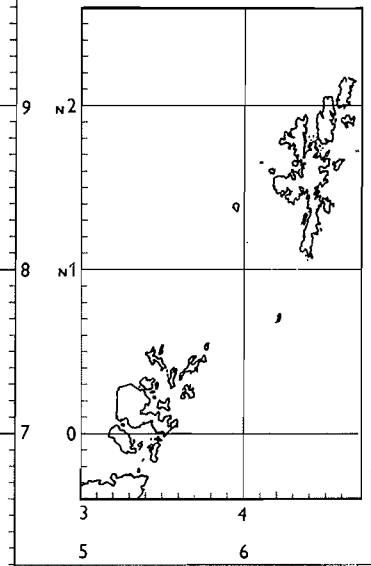
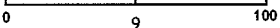
PLEBEJUS ARGUS L.

Silver-studded Blue

- 1960 onwards
- pre 1960

K M:

M I L E S:



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25.

**ARICIA
AGESTIS Schiff.**
Brown Argus

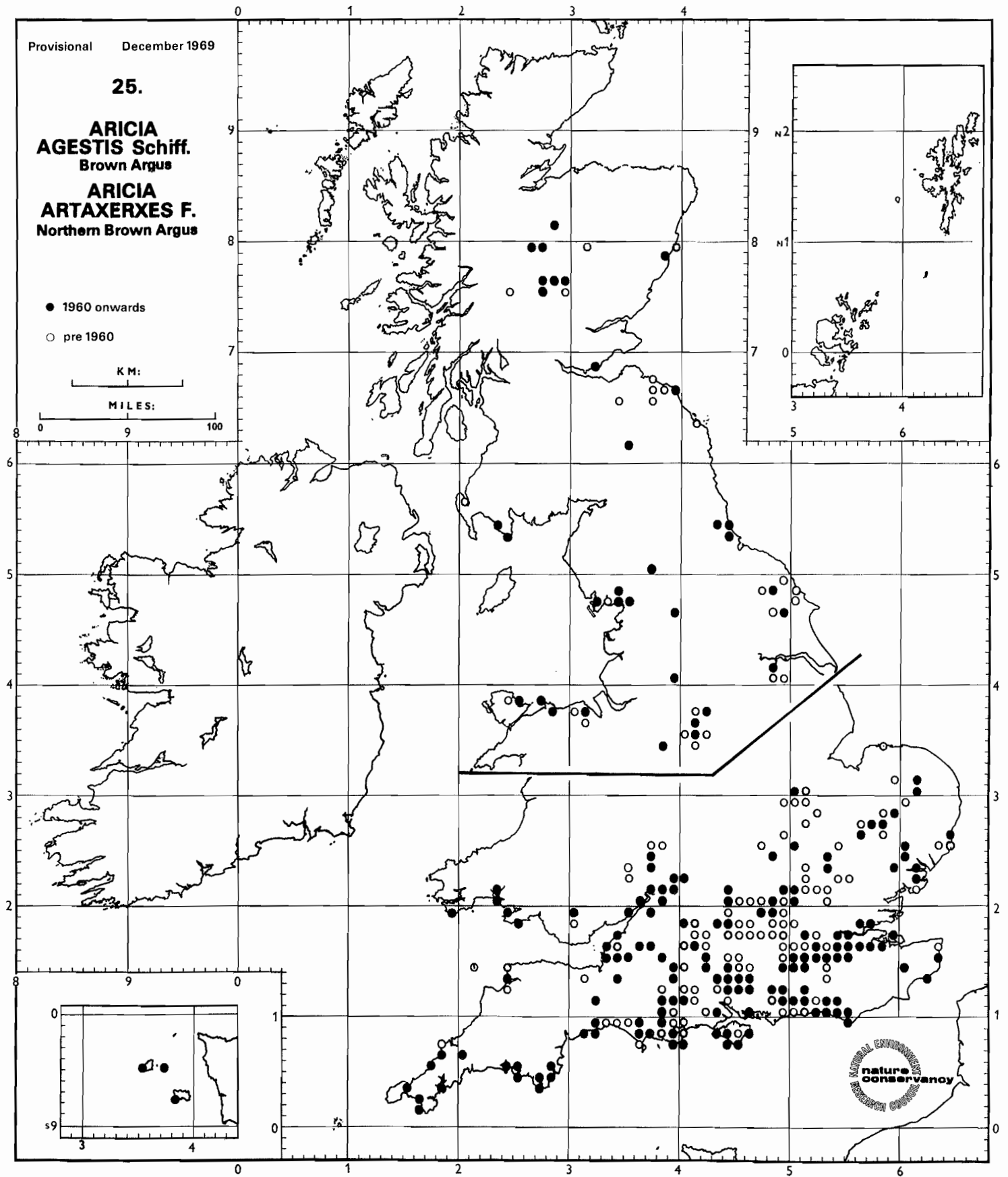
**ARICIA
ARTAXERXES F.**
Northern Brown Argus

- 1960 onwards
- pre 1960

K M:

MILES:

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26.

**POLYOMMATUS
ICARUS Rott.**

Common Blue

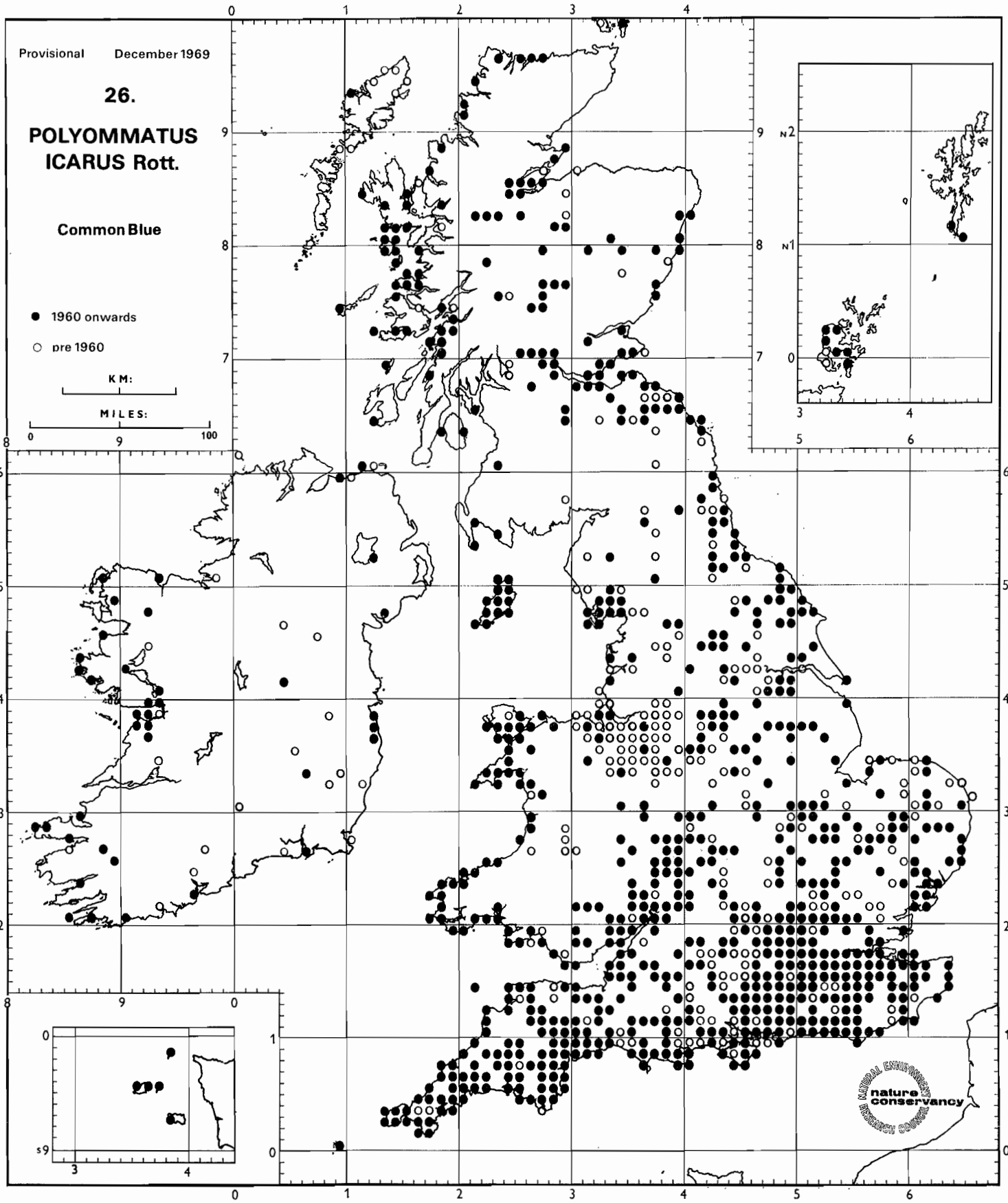
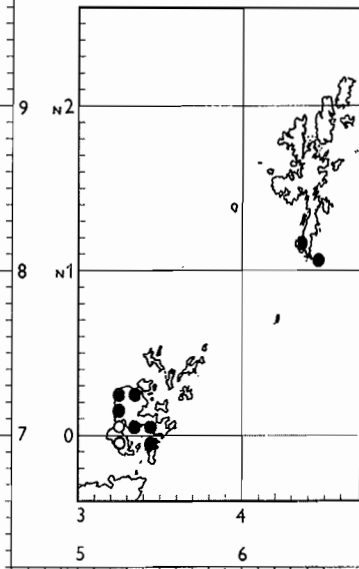
● 1960 onwards

○ pre 1960

KM:

MILES:

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27.

**LYSANDRA
CORIDON Poda.**

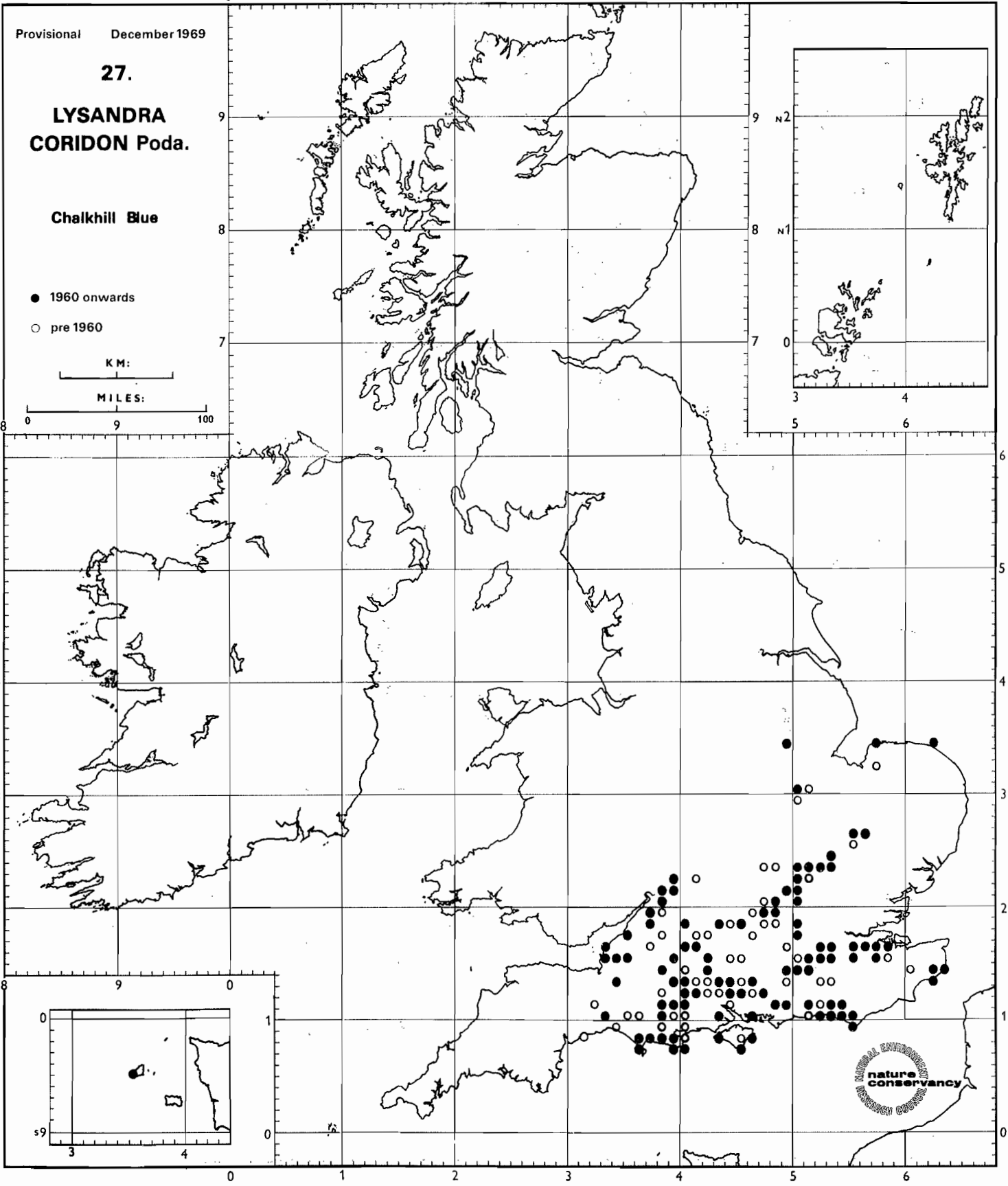
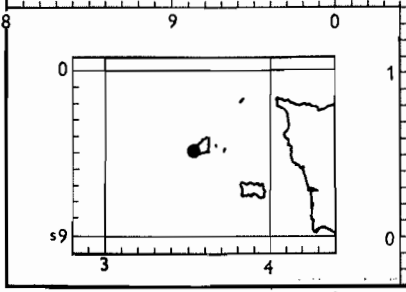
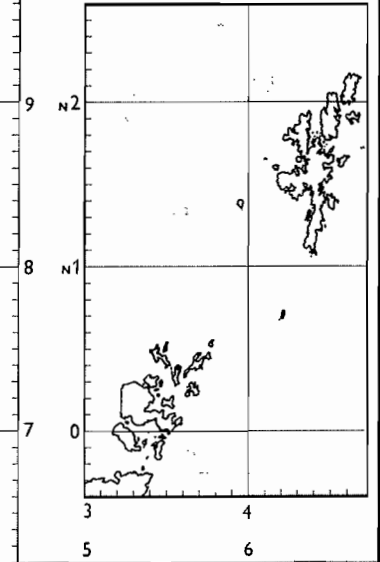
Chalkhill Blue

- 1960 onwards
- pre 1960

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MILES:

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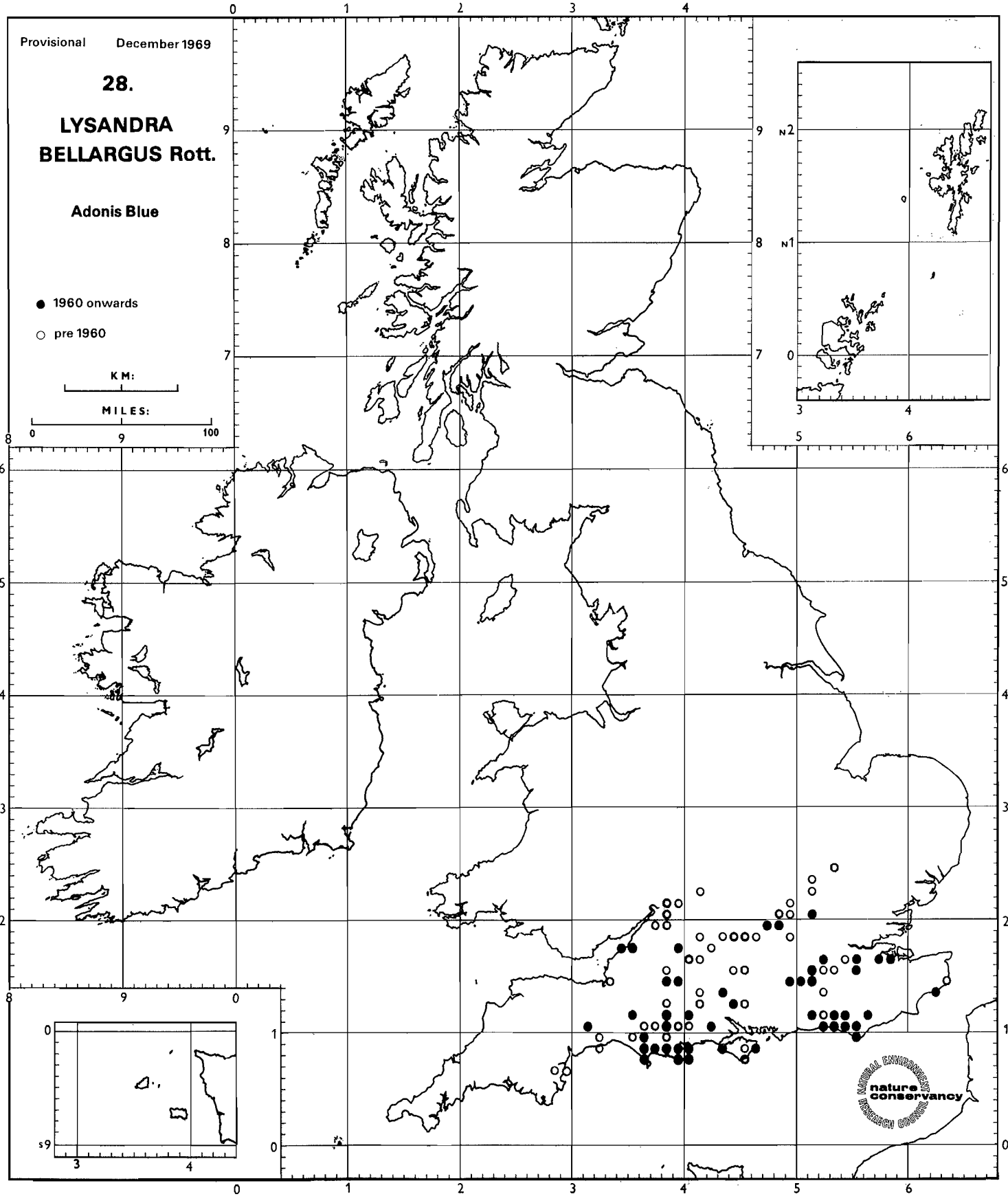
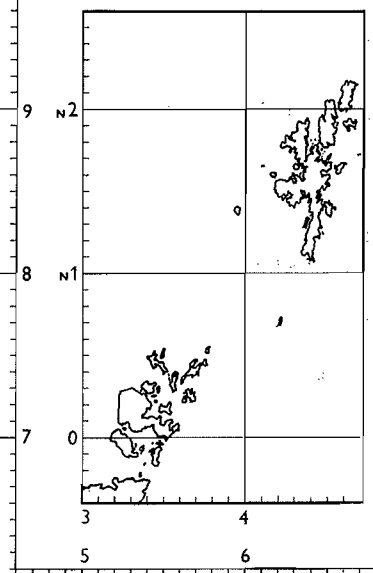
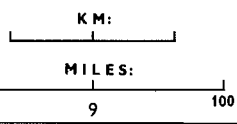


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28. LYSANDRA BELLARGUS Rott.

Adonis Blue

- 1960 onwards
- pre 1960



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30.

**CUPIDO
MINIMUS** Fuesl.

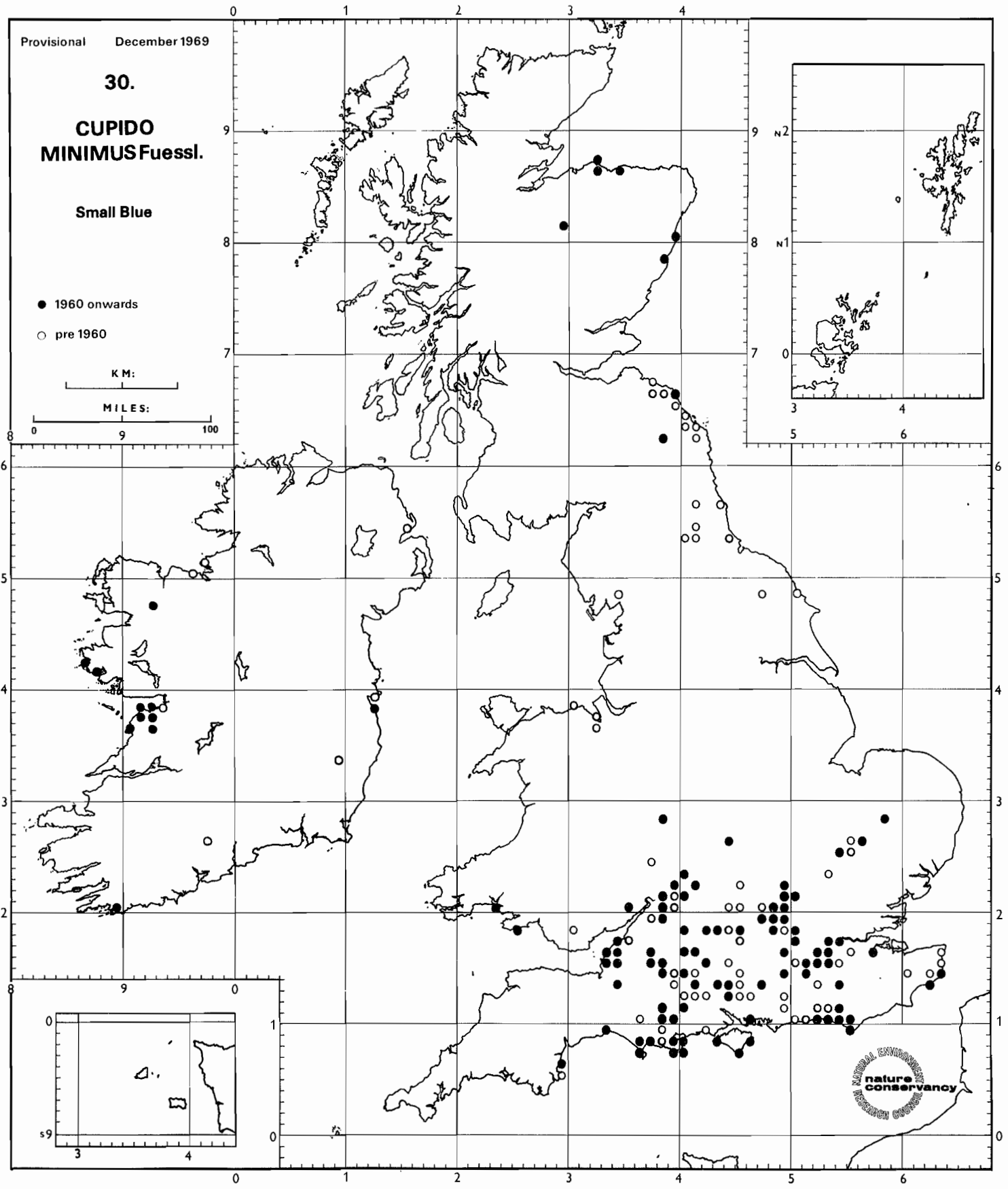
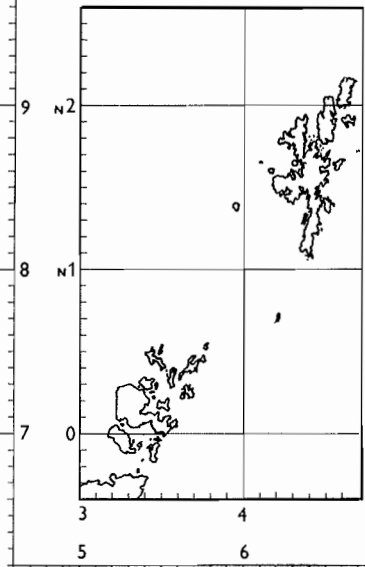
Small Blue

- 1960 onwards
- pre 1960

K M:

M I L E S:

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34.

**LIMENITIS
CAMILLA L.**

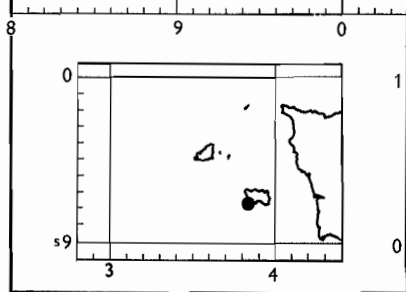
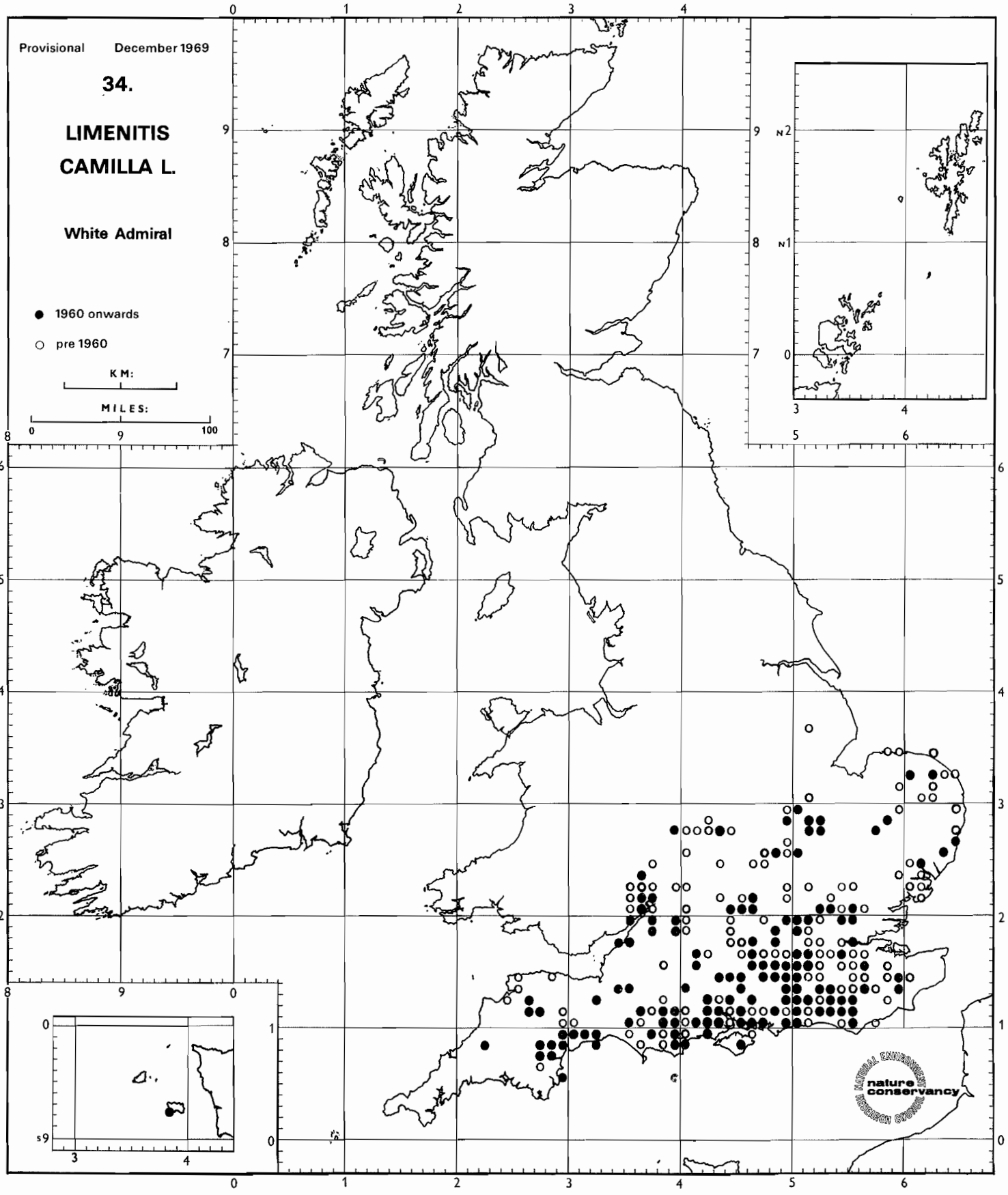
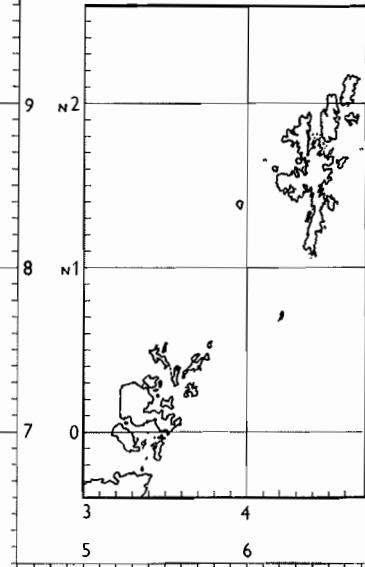
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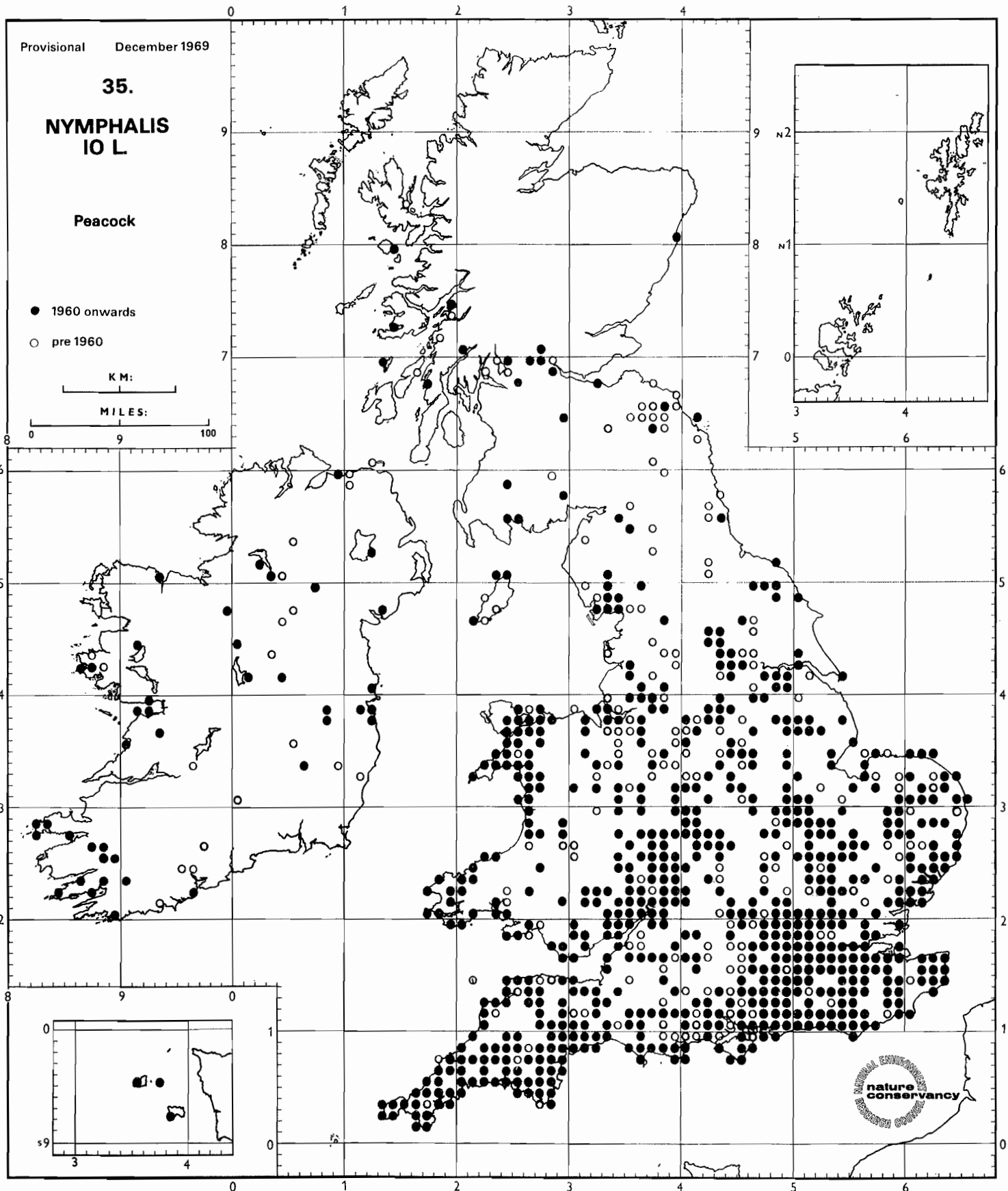
- 1960 onwards
- pre 1960

K M:

MILES:

0 9 100





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36.

**NYPHALIS
POLYCHLOROS L.**

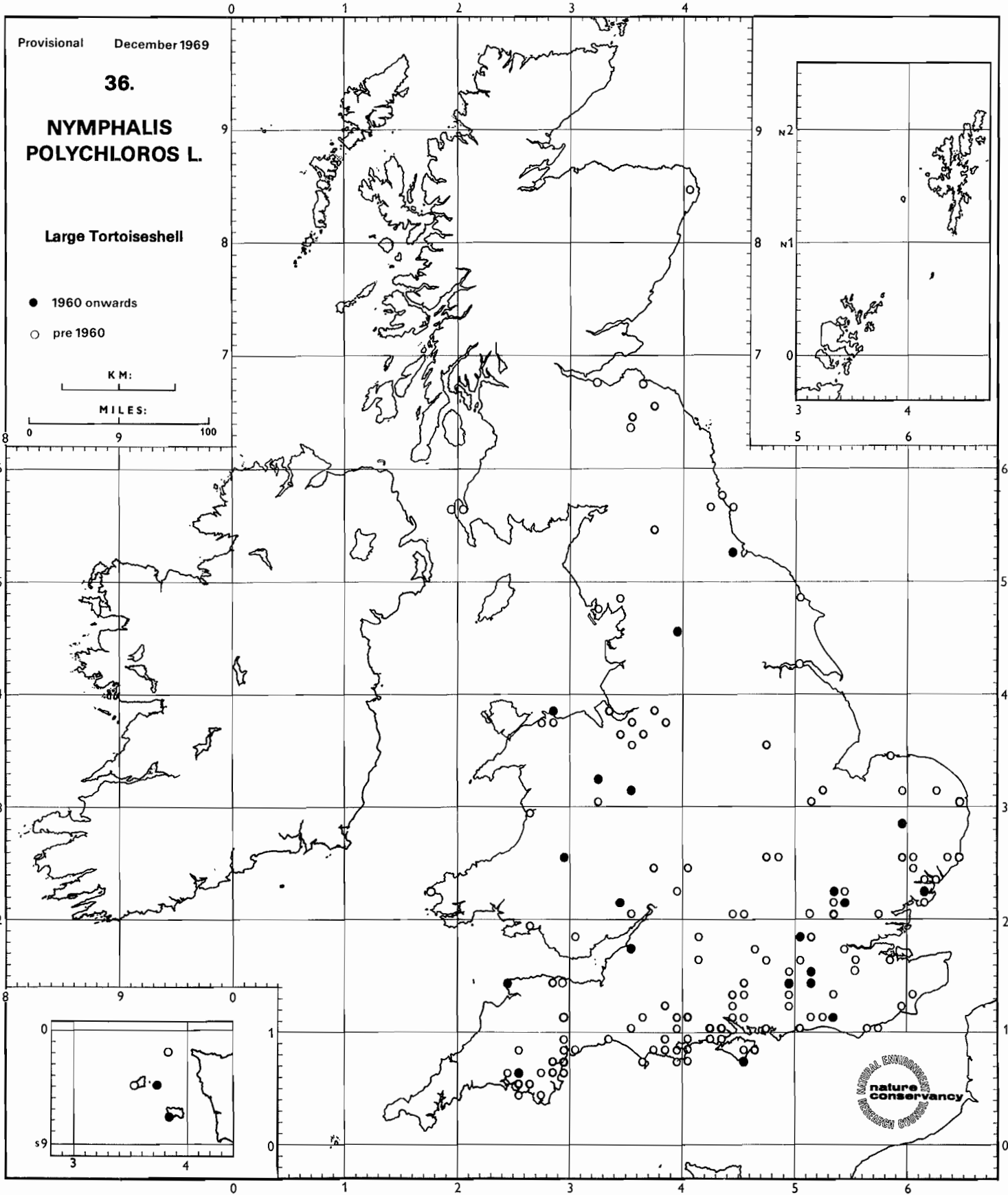
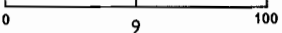
Large Tortoiseshell

- 1960 onwards
- pre 1960

KM:



MILES:



Provisional December 1969

38. POLYGONIA C-ALBUM L.

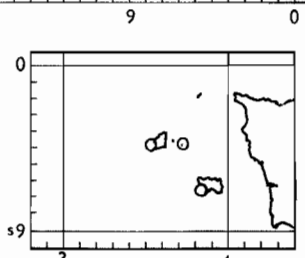
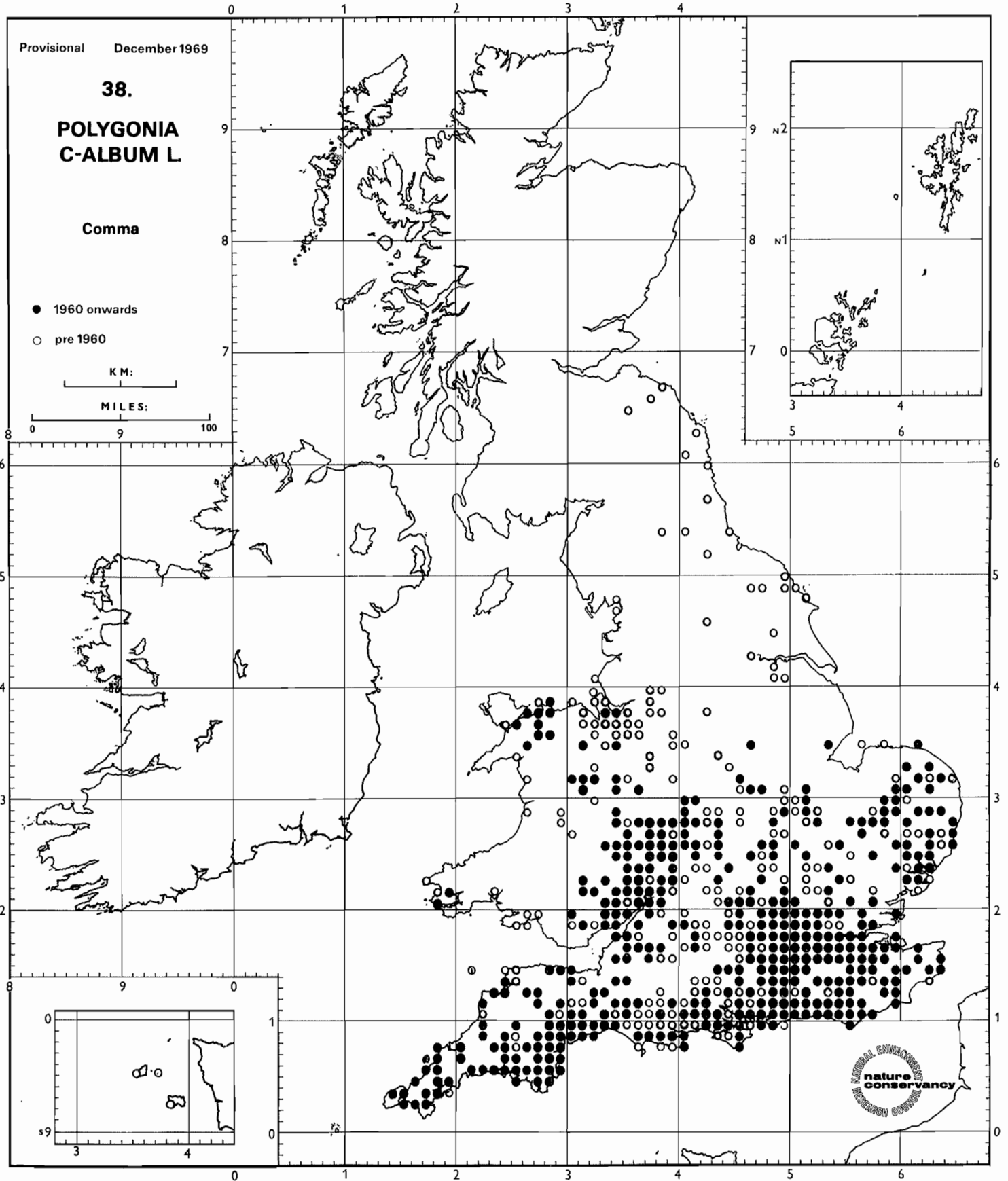
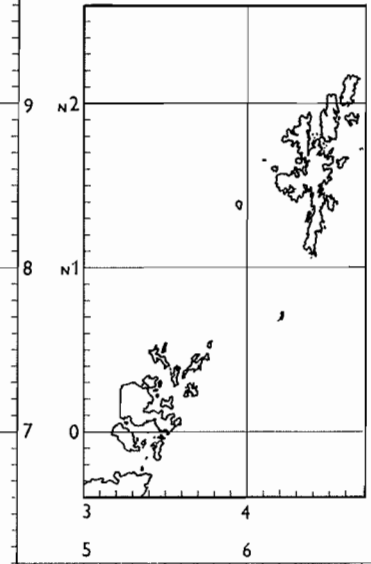
Comma

- 1960 onwards
- pre 1960

KM:

MILES:

0 9 100



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39.

ARGYNNIS PAPHIA L

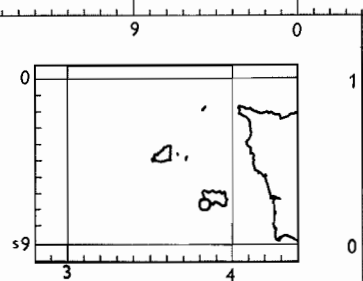
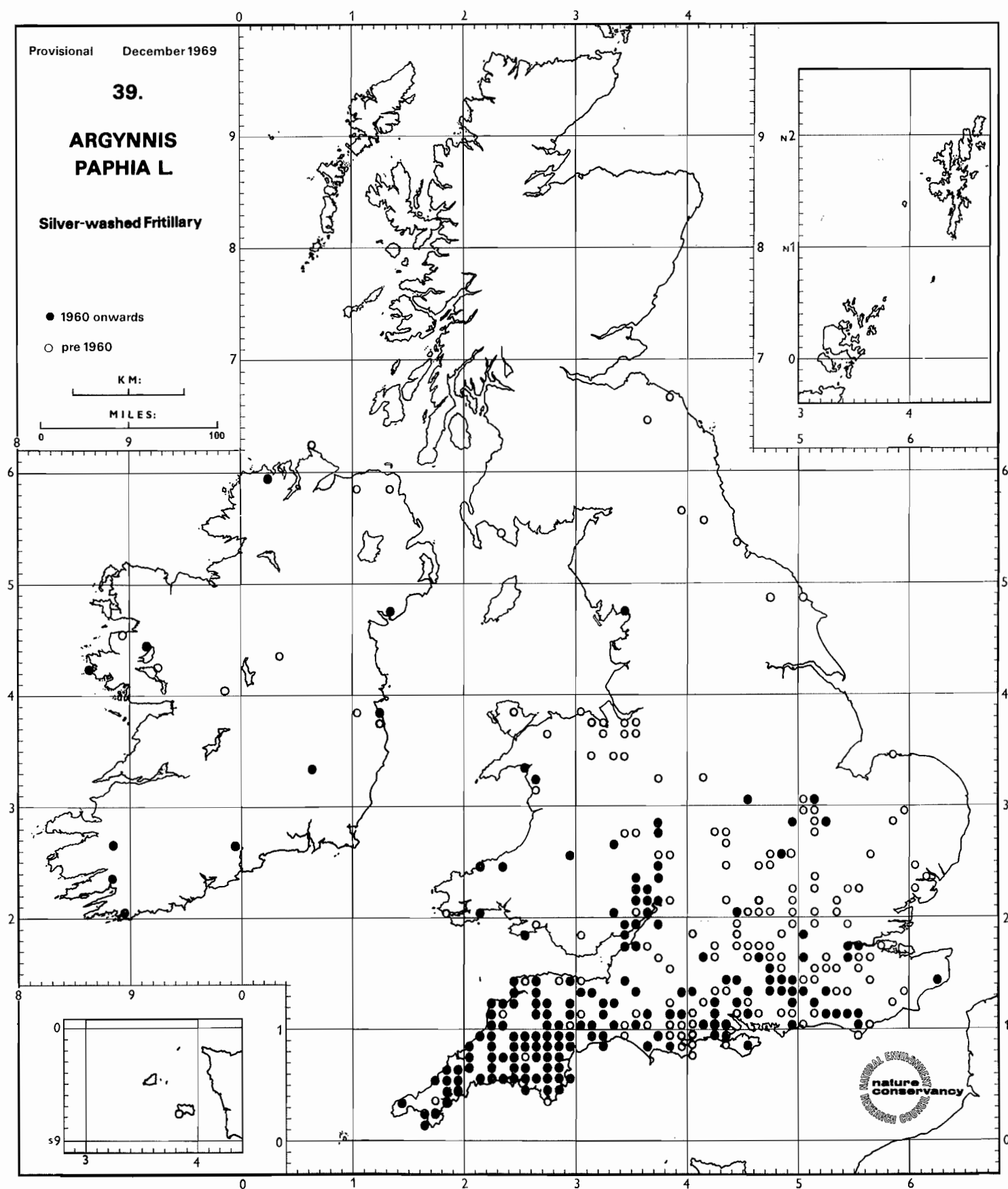
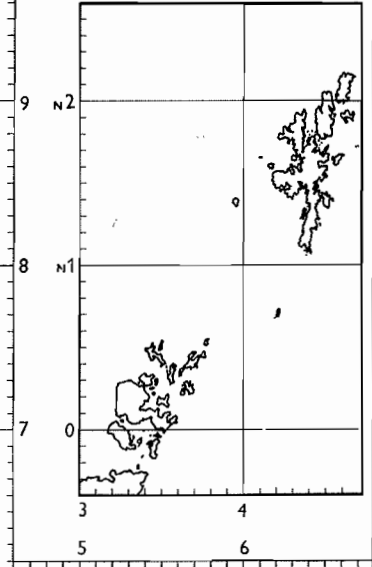
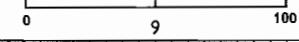
Silver-washed Fritillary

● 1960 onwards

○ pre 1960

KM:

MILES:



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40.

**ARGYNNIS
CYDIPPE L.**

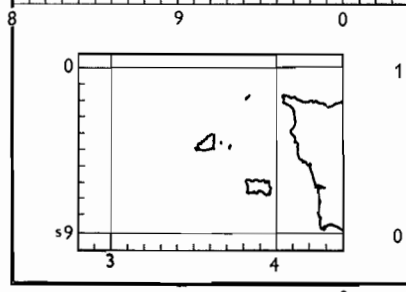
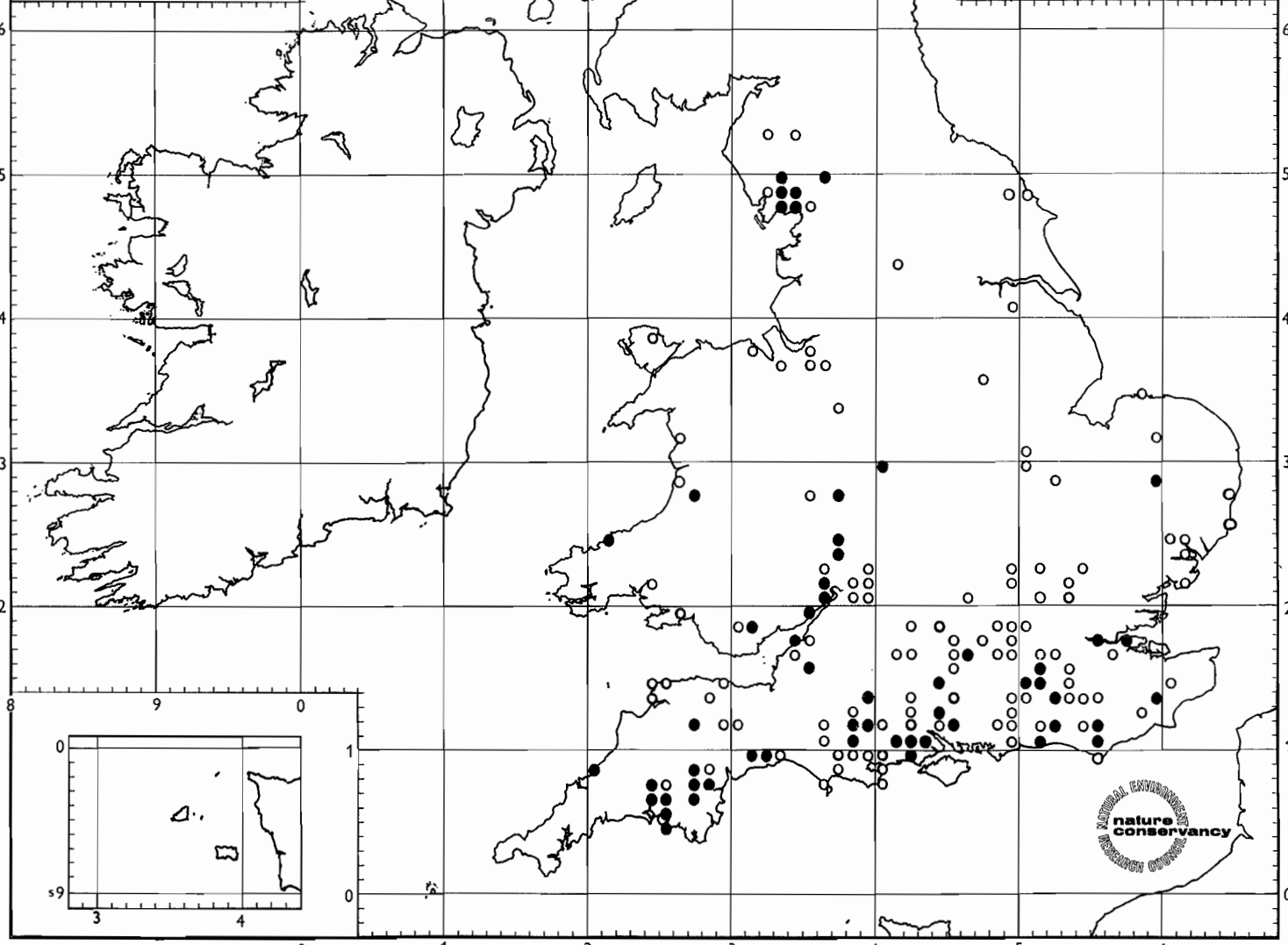
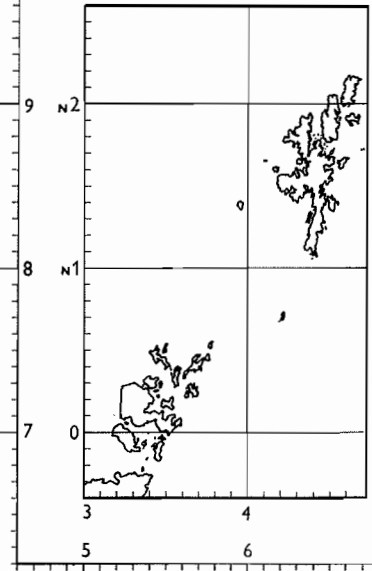
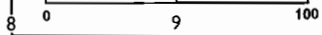
High Brown Fritillary

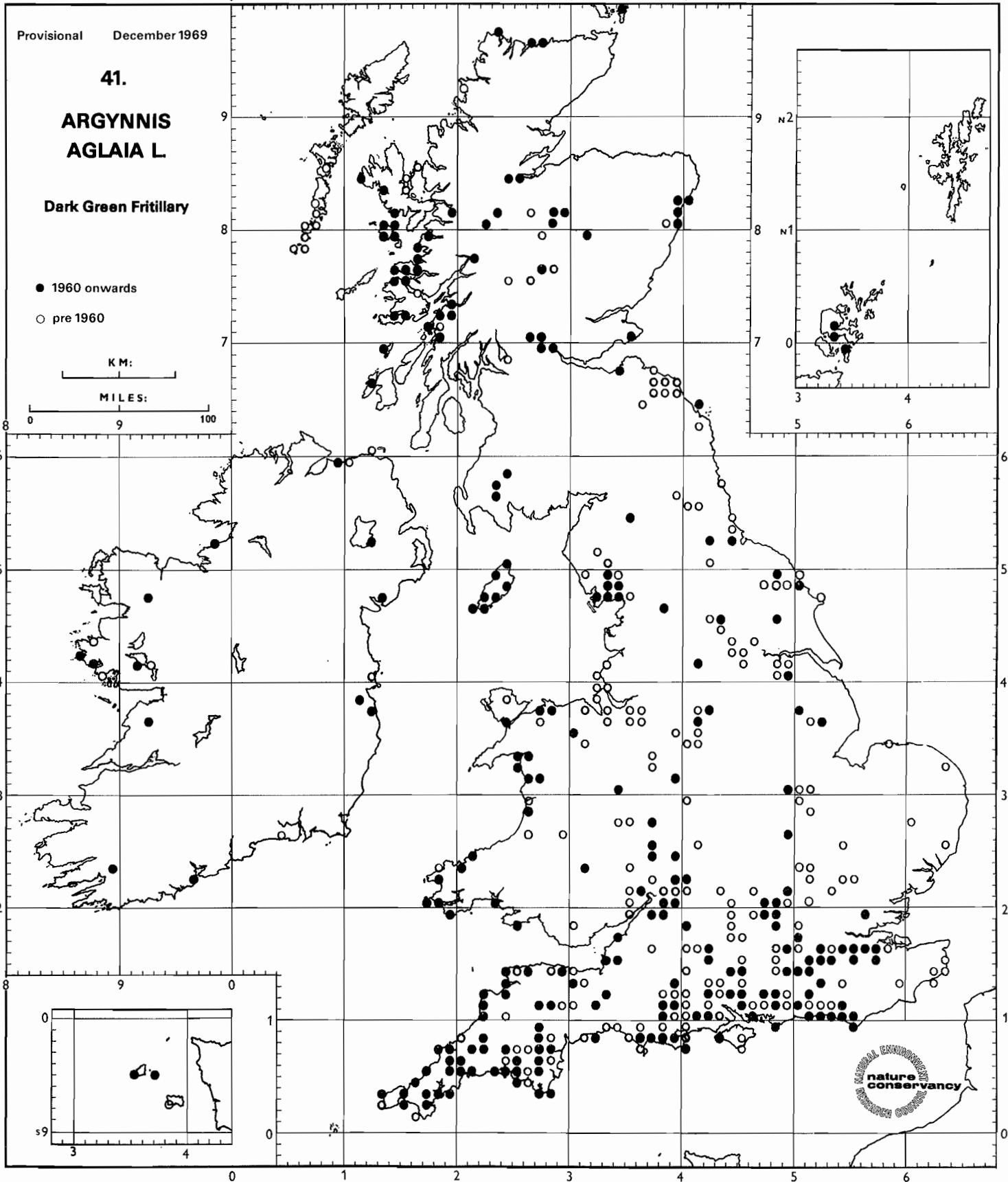
● 1960 onwards

○ pre 1960

KM:

MILES:





Provisional December 1969

42.

**ARGYNNIS
EUPHROSYNE L.**

Pearl-bordered Fritillary

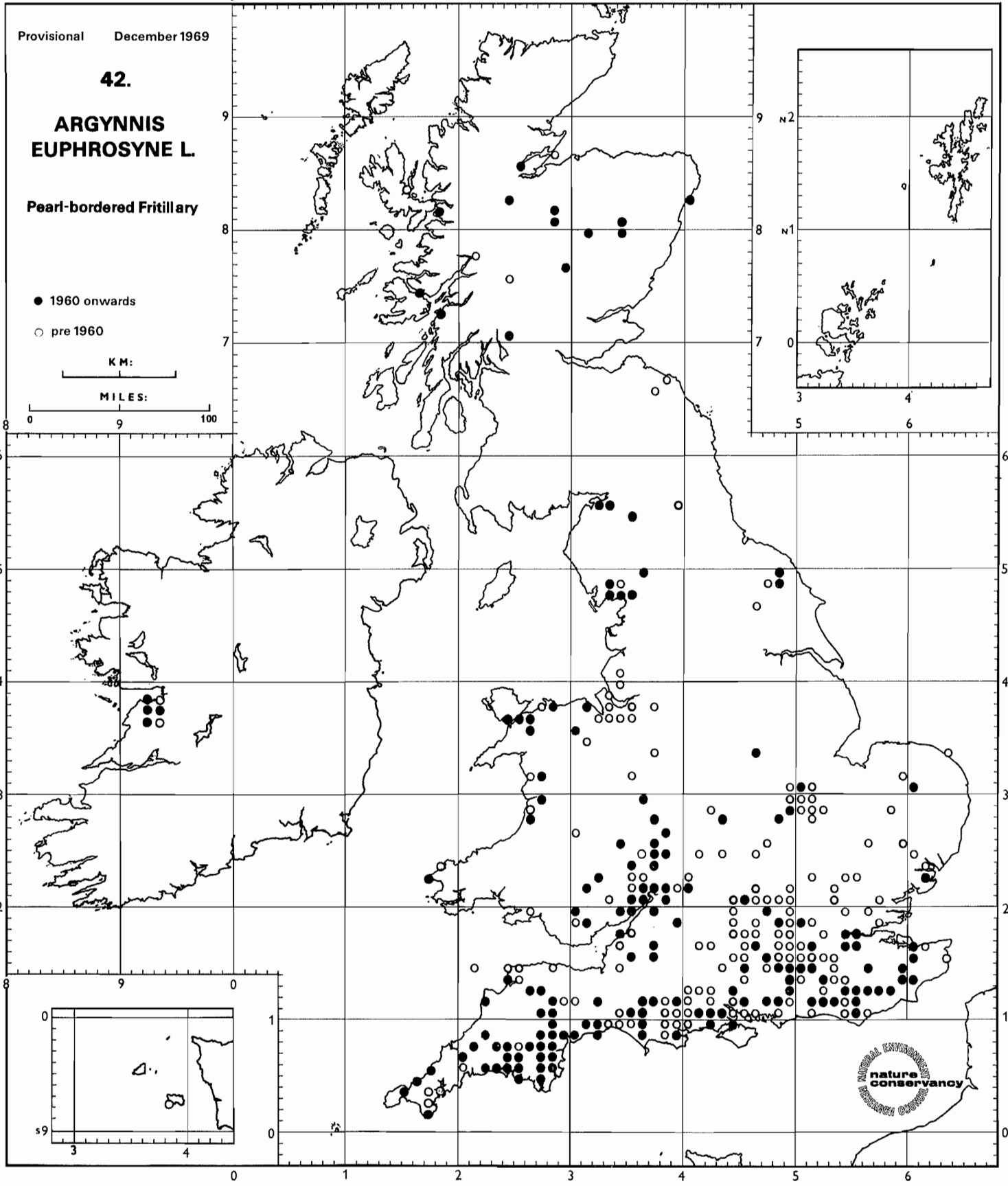
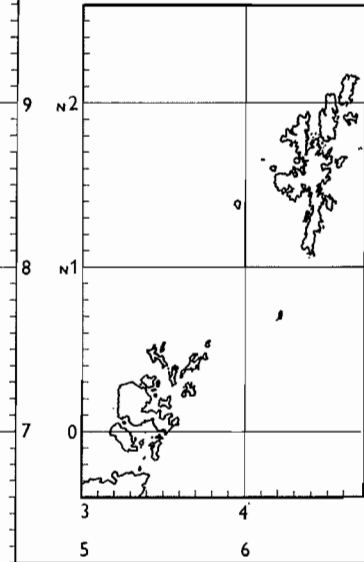
● 1960 onwards

○ pre 1960

KM:

MILES:

0 9 100



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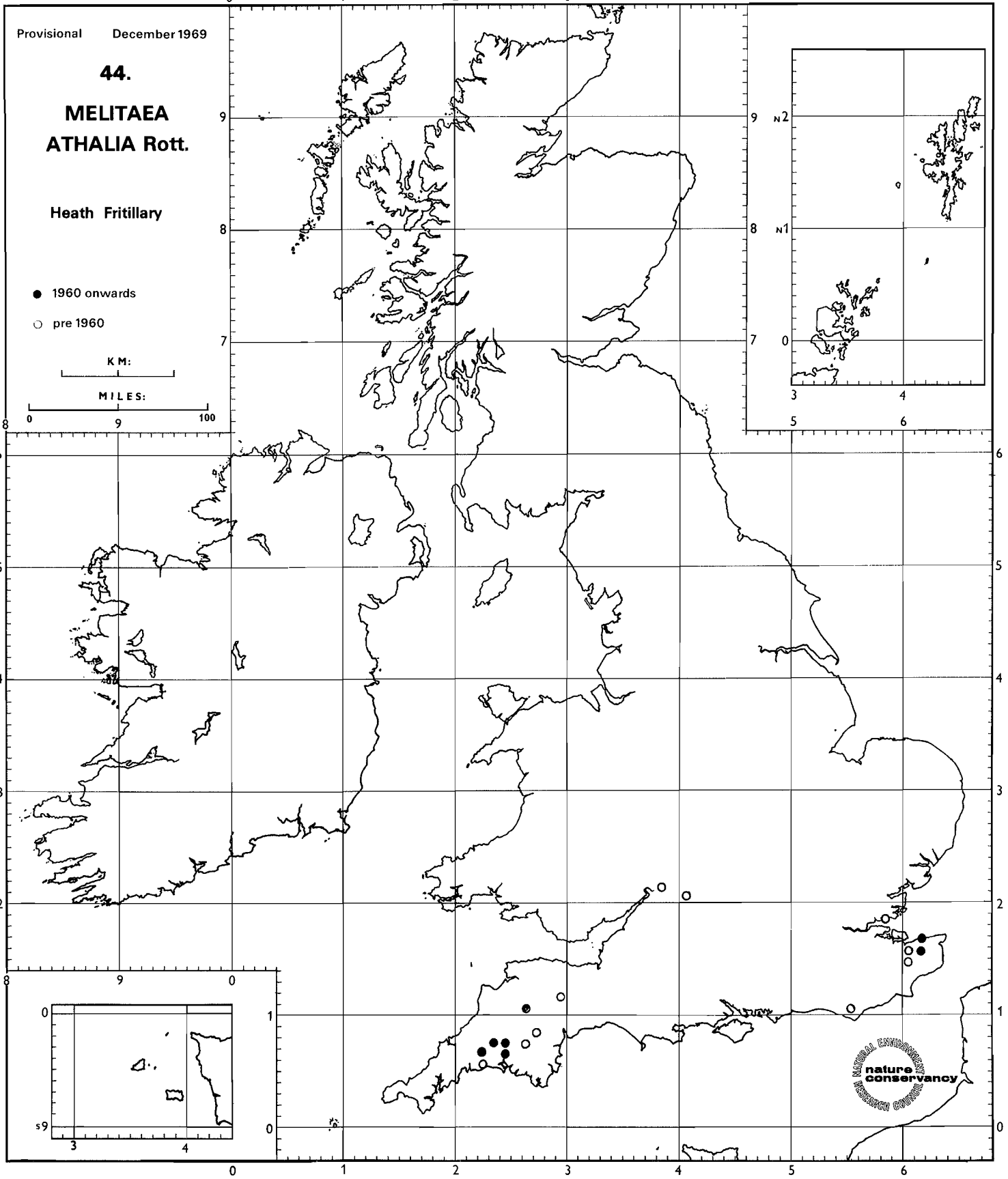
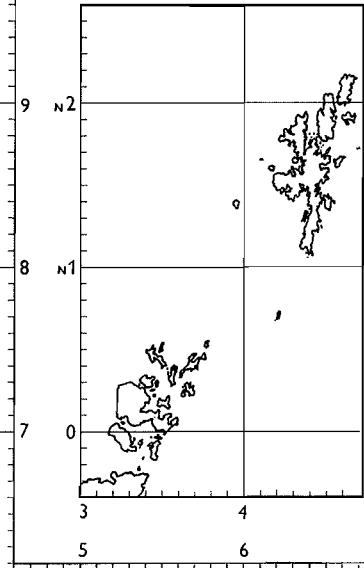
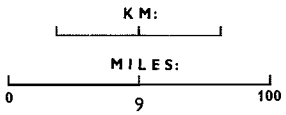
Provisional December 1969

44.

**MELITAEA
ATHALIA Rott.**

Heath Fritillary

- 1960 onwards
- pre 1960



Provisional December 1969

45.

**MELITAEA
CINXIA L**

Glanville Fritillary

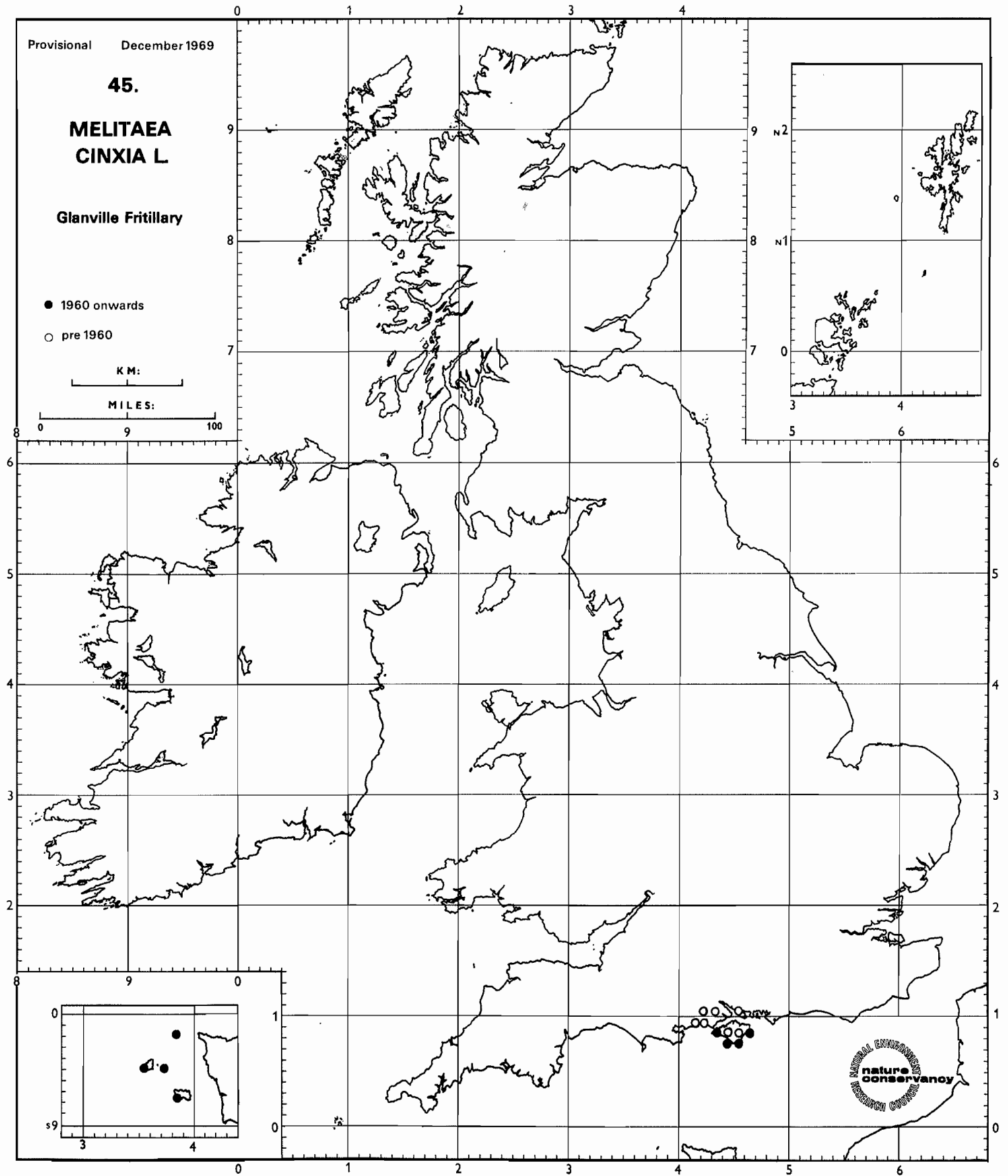
● 1960 onwards

○ pre 1960

K M:

M I L E S:

0 9 100



Provisional December 1969

46.
EUPHYDRYAS
AURINIA Rott.

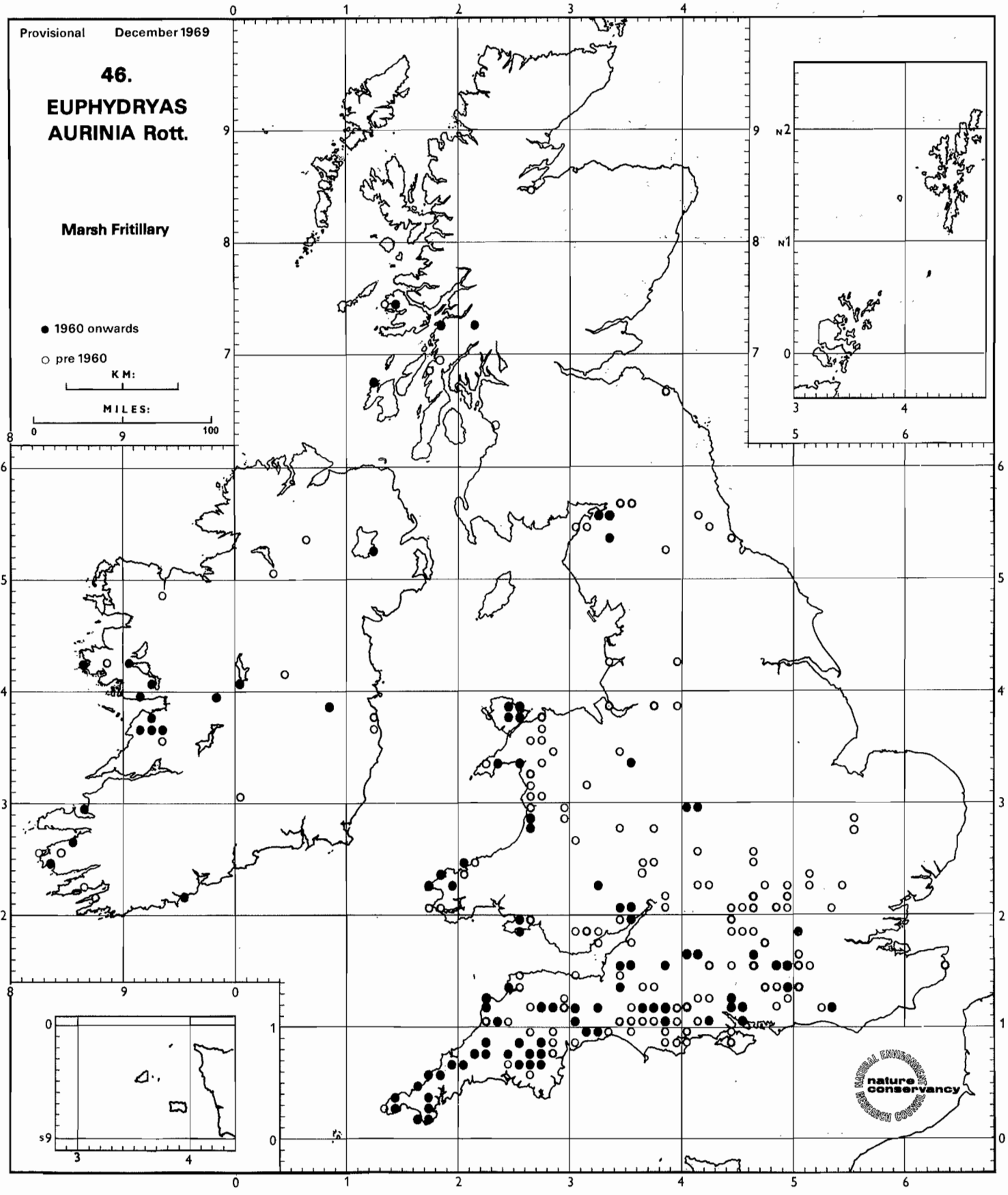
Marsh Fritillary

● 1960 onwards

○ pre 1960

KM:

MILES:



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48.

**PARARGE
AEGERIA L.**

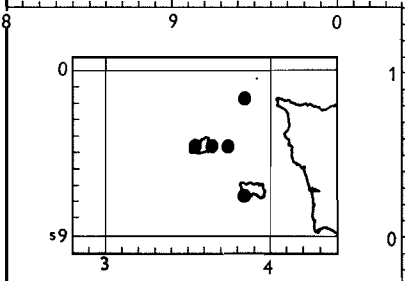
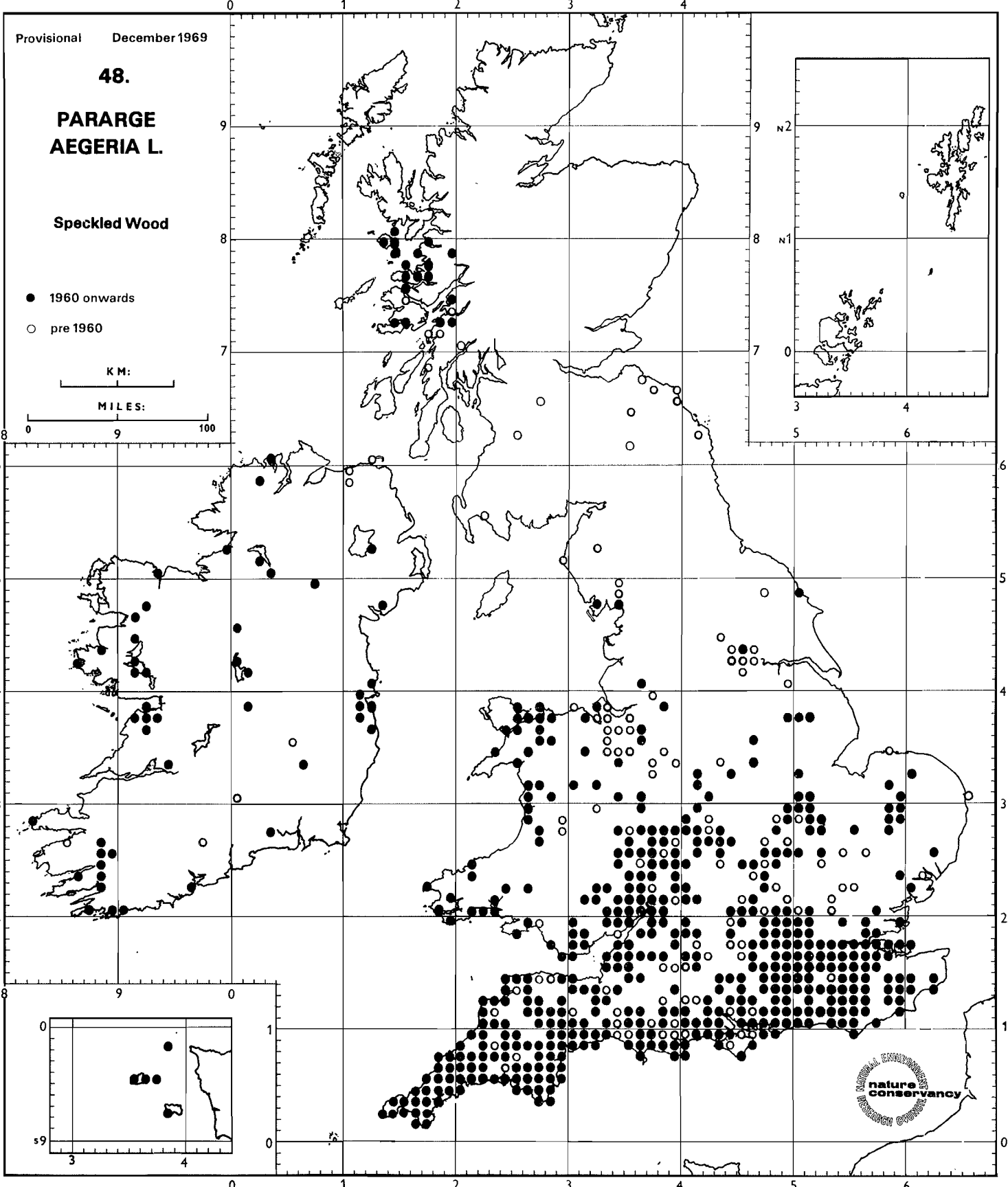
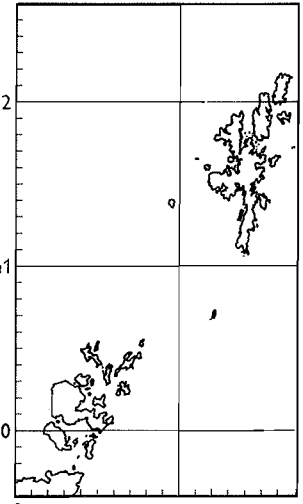
Speckled Wood

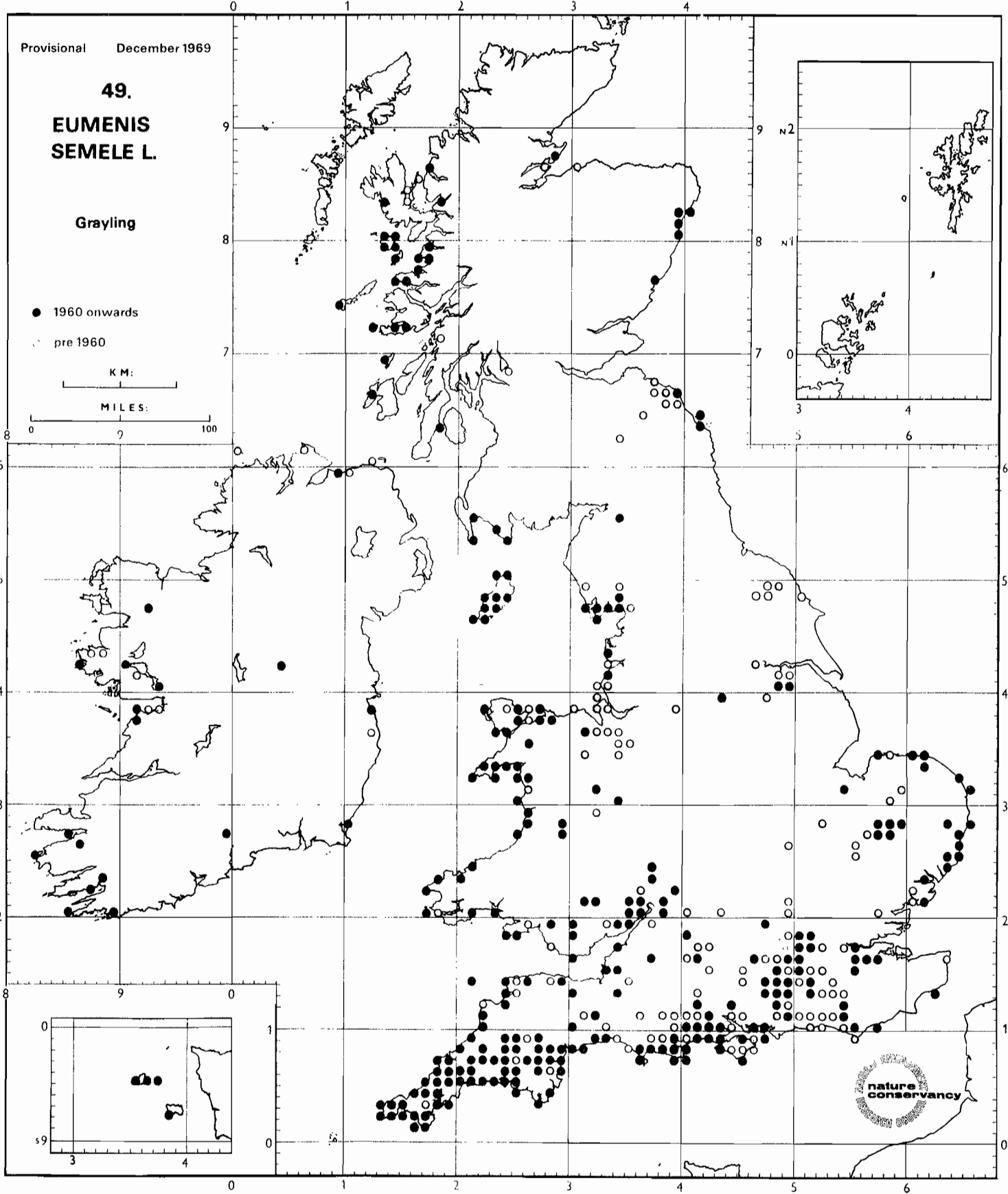
- 1960 onwards
- pre 1960

KM:

MILES:

0 9 100





Provisional December 1969

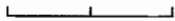
50.

**EREBIA
EPIPHRON Knoch.**

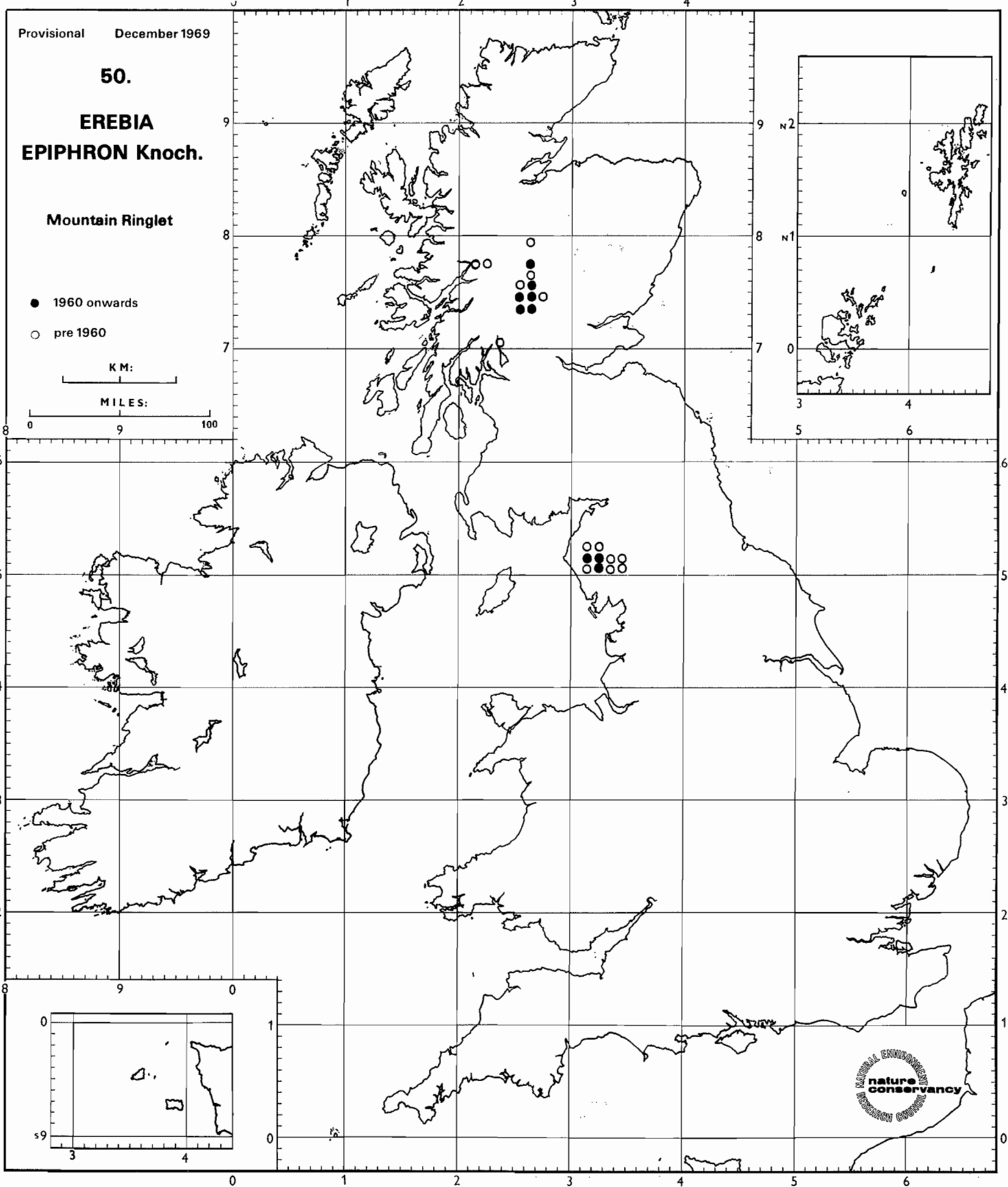
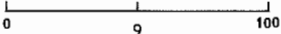
Mountain Ringlet

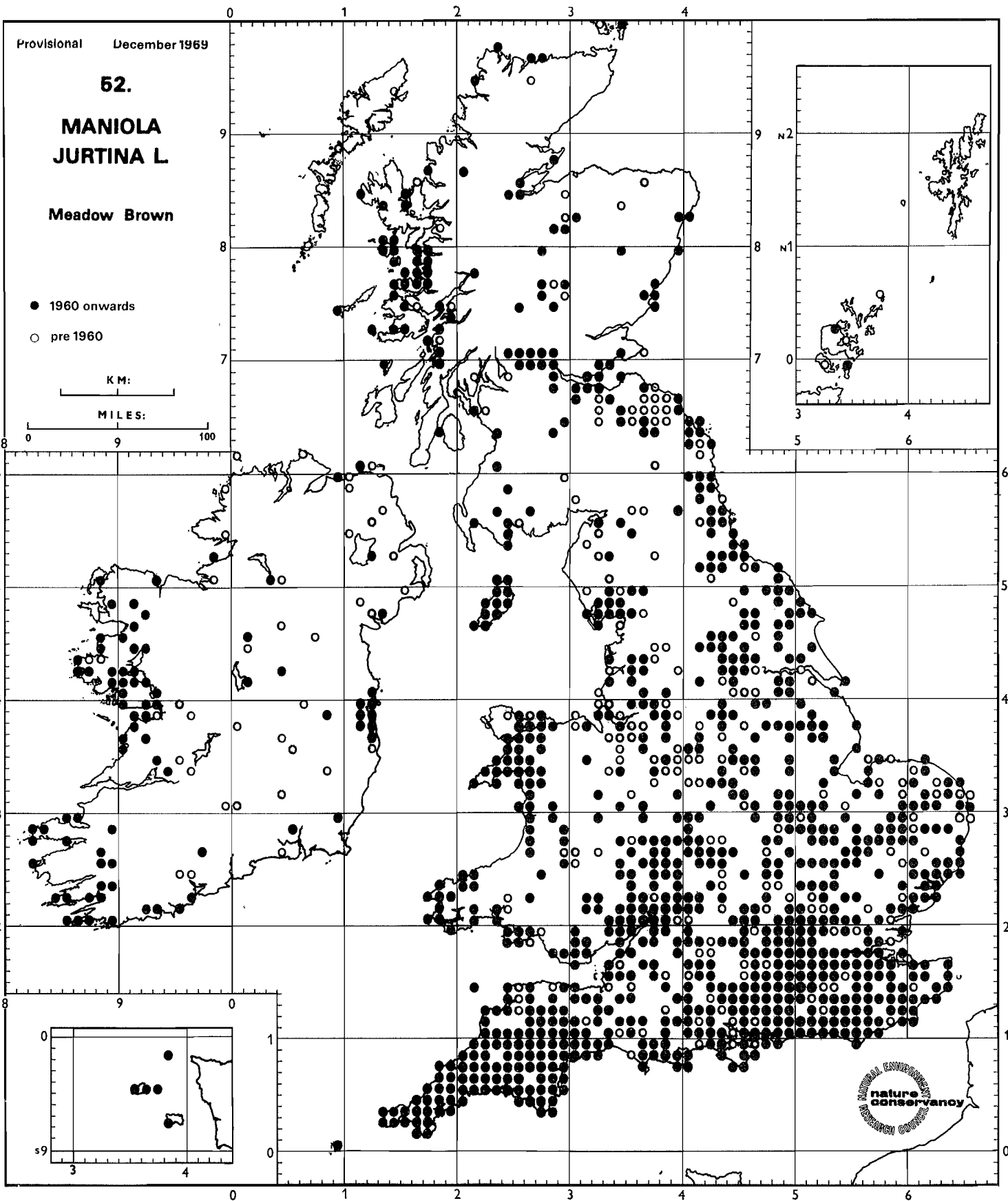
- 1960 onwards
- pre 1960

KM:



MILES:





Provisional December 1969

54.

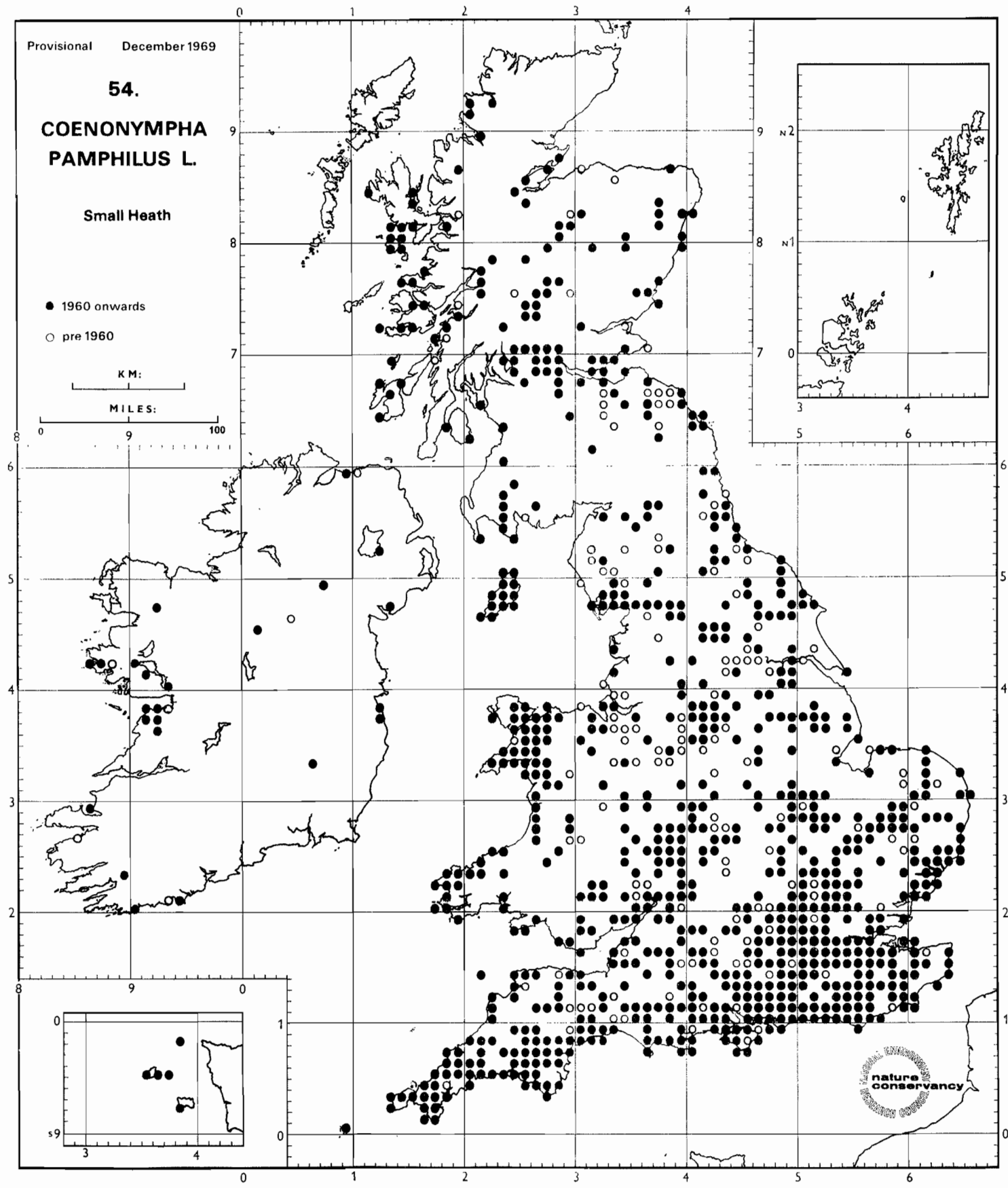
**COENONYMPHA
PAMPHILUS L.**

Small Heath

- 1960 onwards
- pre 1960

KM:

MILES:



Provisional December 1969

56.

APHANTOPUS HYPERANTUS L

Ringlet

● 1960 onwards

○ pre 1960

KM:

MILES:

