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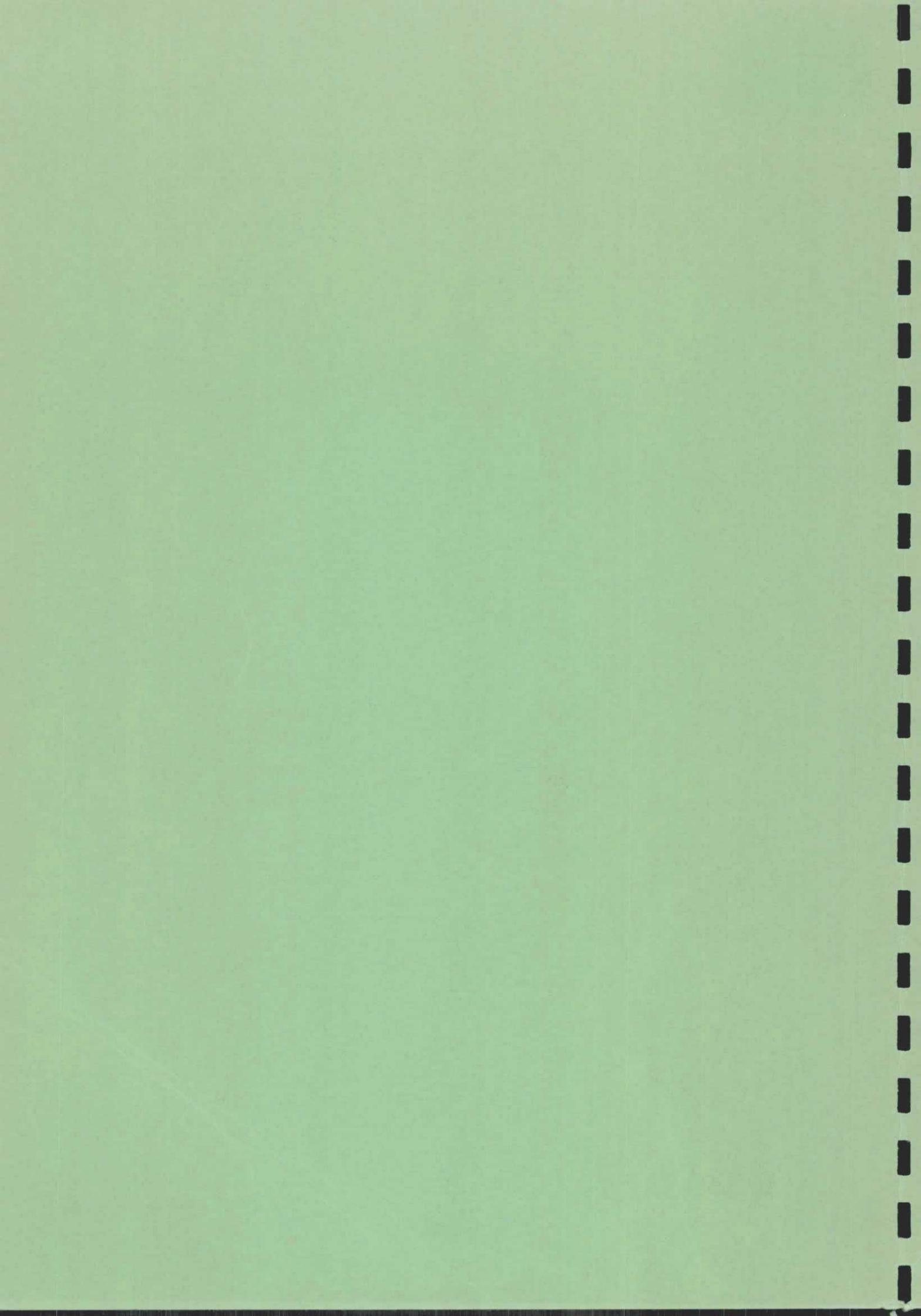
Provisional Atlas of the Bryophytes of the British Isles

Edited by A J E Smith

for the British Bryological Society
and the Biological Records Centre,
Institute of Terrestrial Ecology,
Monks Wood Experimental Station,
Abbots Ripton, Huntingdon

1978

Natural Environment Research Council



Provisional Atlas of the Bryophytes of the British Isles

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Automated Cartography by Experimental Cartography Unit, London

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INTRODUCTION

There has been considerable interest in bryophytes in Britain for very many years. In 1896 the Moss Exchange Club was formed with some 35 members; this later became the British Bryological Society which now has a membership of about 500. The Society has been particularly active in vice-county recording and the first editions of the hepatic and moss census catalogues were published in 1905 and 1907 respectively. In 1960 a distribution maps scheme based on the 10 km squares of the National Grid was commenced. Distribution maps of rarer species have been published, commencing in 1963, first in the *Transactions of the British Bryological Society*, later in its successor, the *Journal of Bryology*. With the data that have now accumulated it is possible to publish provisional maps of a selection of some commoner species.

The majority of active field bryologists live in Southern England and hence those species that tend to have a southern distribution are the best recorded. A number of the species was chosen for this reason. Others were selected as being species that bryologists tend to note and hence are well represented in the literature and herbaria. Maps of a few species were requested by particular individuals.

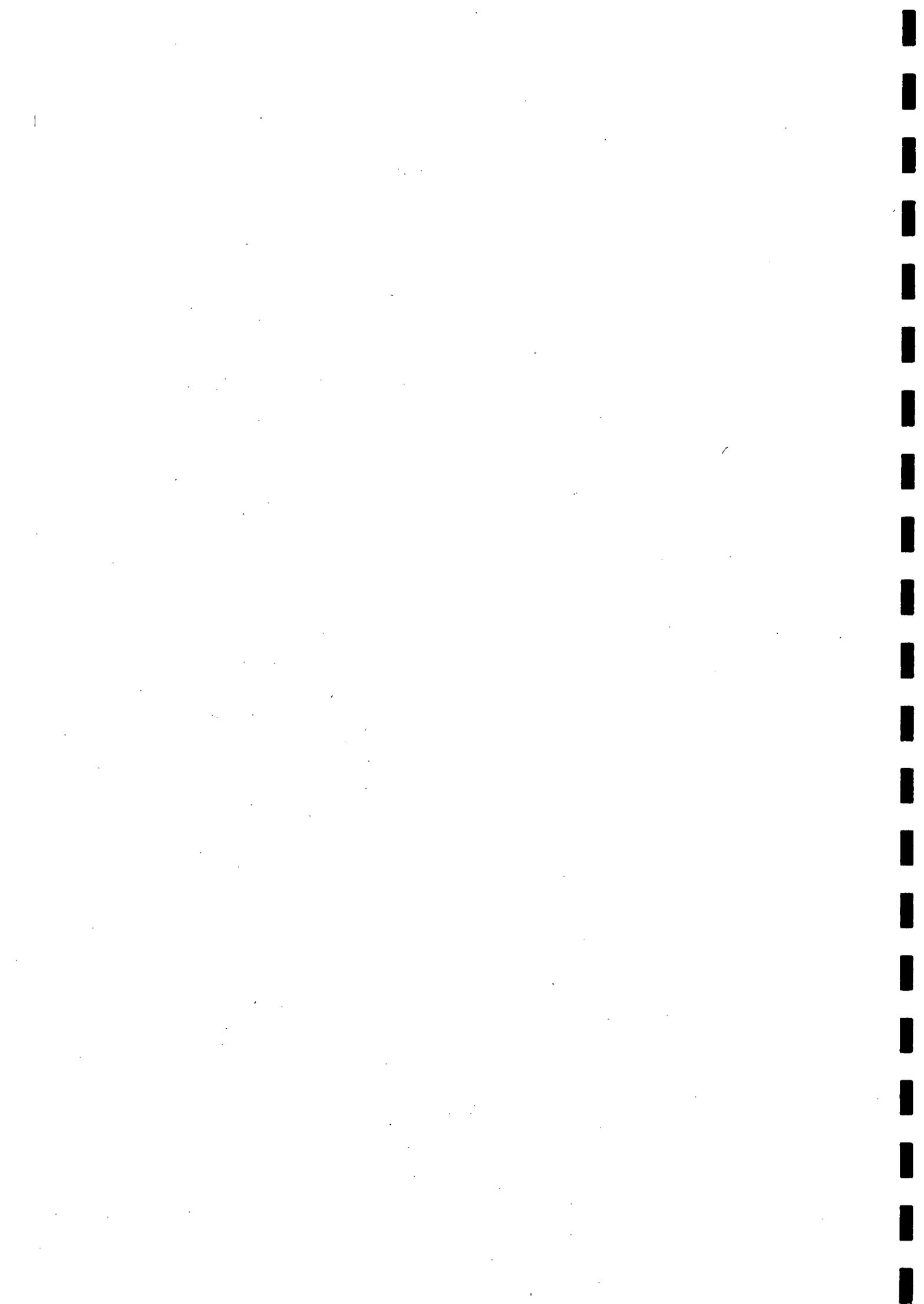
Map 1 shows the 10 km squares from which records have been received. This includes squares from which there are only literature or herbarium records and the number of species from a single square may be as low as one. Squares for which there are species list cards can have up to 390 out of a total of about 690 mosses and 290 hepatics in Britain and Ireland. Areas that are badly recorded are the English Midlands, S.W. Wales, several parts of Scotland and most of Ireland. The coverage for most species is probably about 80% but for a few which have been the subject of special surveys (*Dicranum tauricum*, *Homalothecium nitens*, *Rhynchostegium megapolitanum*, *Schistidium maritimum*, *Herzogiella seligeri*, *Rhodobryum roseum*, *Tortella inflexa*, *Marchesinia mackaii*, *Ptilidium pulcherrimum*) it is about 95%.

With two exceptions there has been no differentiation into date classes as there is no reason to believe that there have been many extinctions. For two species, *Dicranum tauricum* and *Orthodontium lineare*, date classes are mapped as these species are increasing in frequency.

Acknowledgments

The map of *Cinclidotus mucronatus* was compiled by Mr B O'Shea, that of *Rhodobryum roseum* by Dr M R D Seaward and those of *Scleropodium cespitans* and *Tortella inflexa* by Mr E C Wallace. I am particularly grateful to Dr D F Chamberlain, Mr A C Crundwell, Miss M M Hartley, Mrs J A Paton, Mr A R Perry, Dr M R D Seaward and Mr E C Wallace for the herbarium records that they contributed and to the many B.B.S. members for the field record cards that they have submitted since 1960.

Thanks are also due to Diana Scott (I.T.E., Monks Wood) for the patience she has shown in preparing the maps from data which presented considerable problems, and to the staff of the Experimental Cartography Unit who produced the final maps. I am also grateful for the assistance of Dr F Rose.

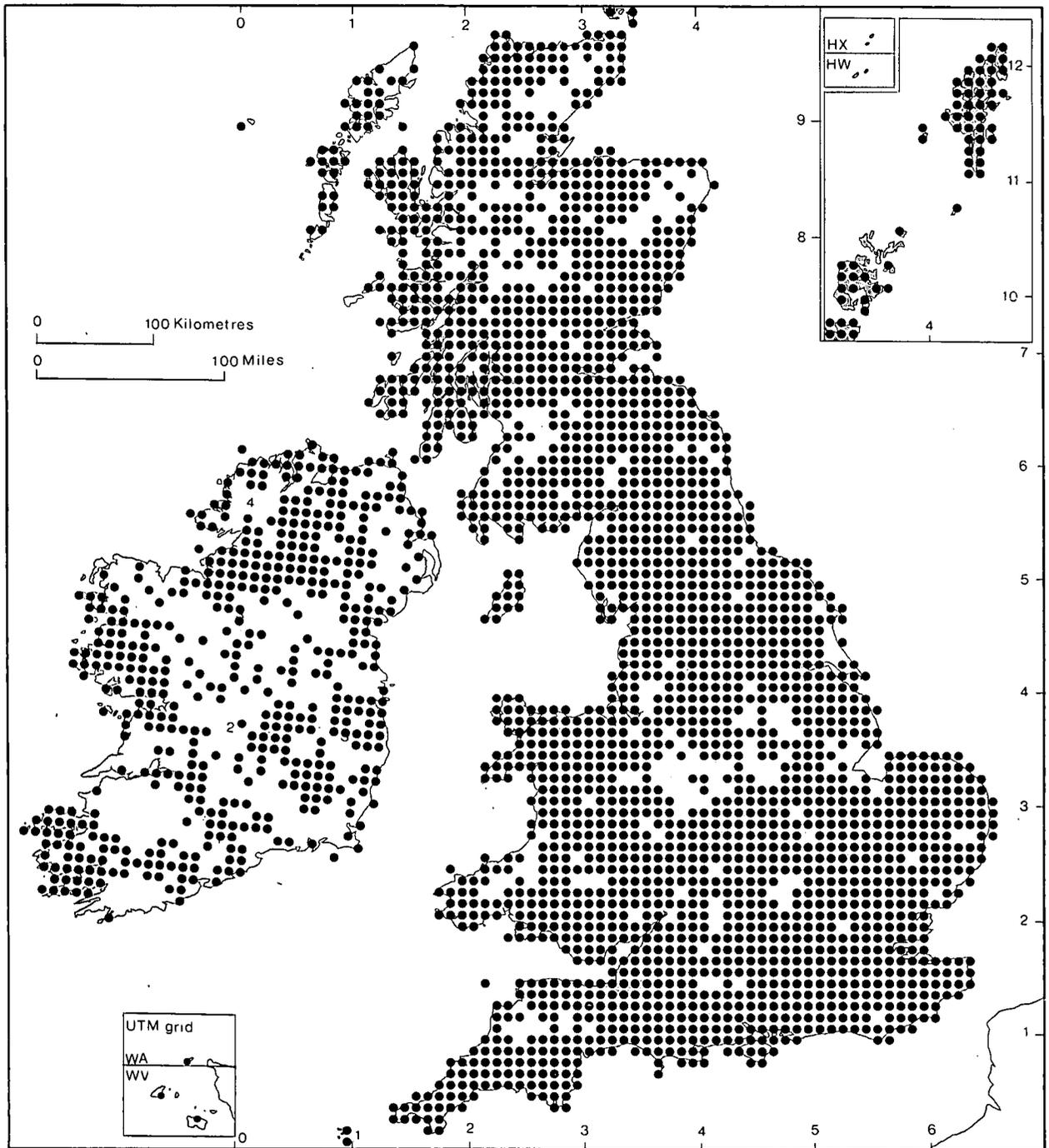


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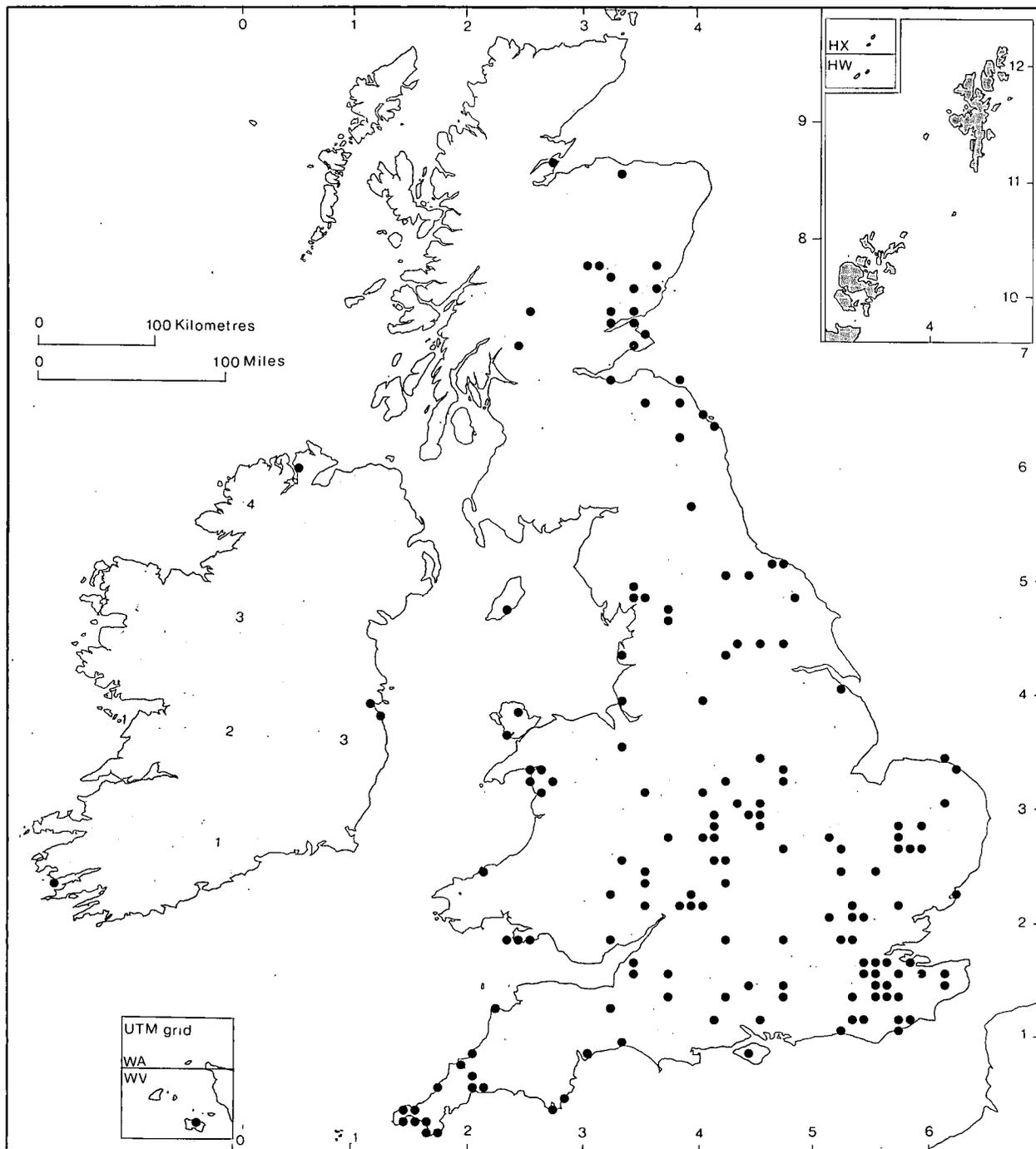
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1 Recorded squares

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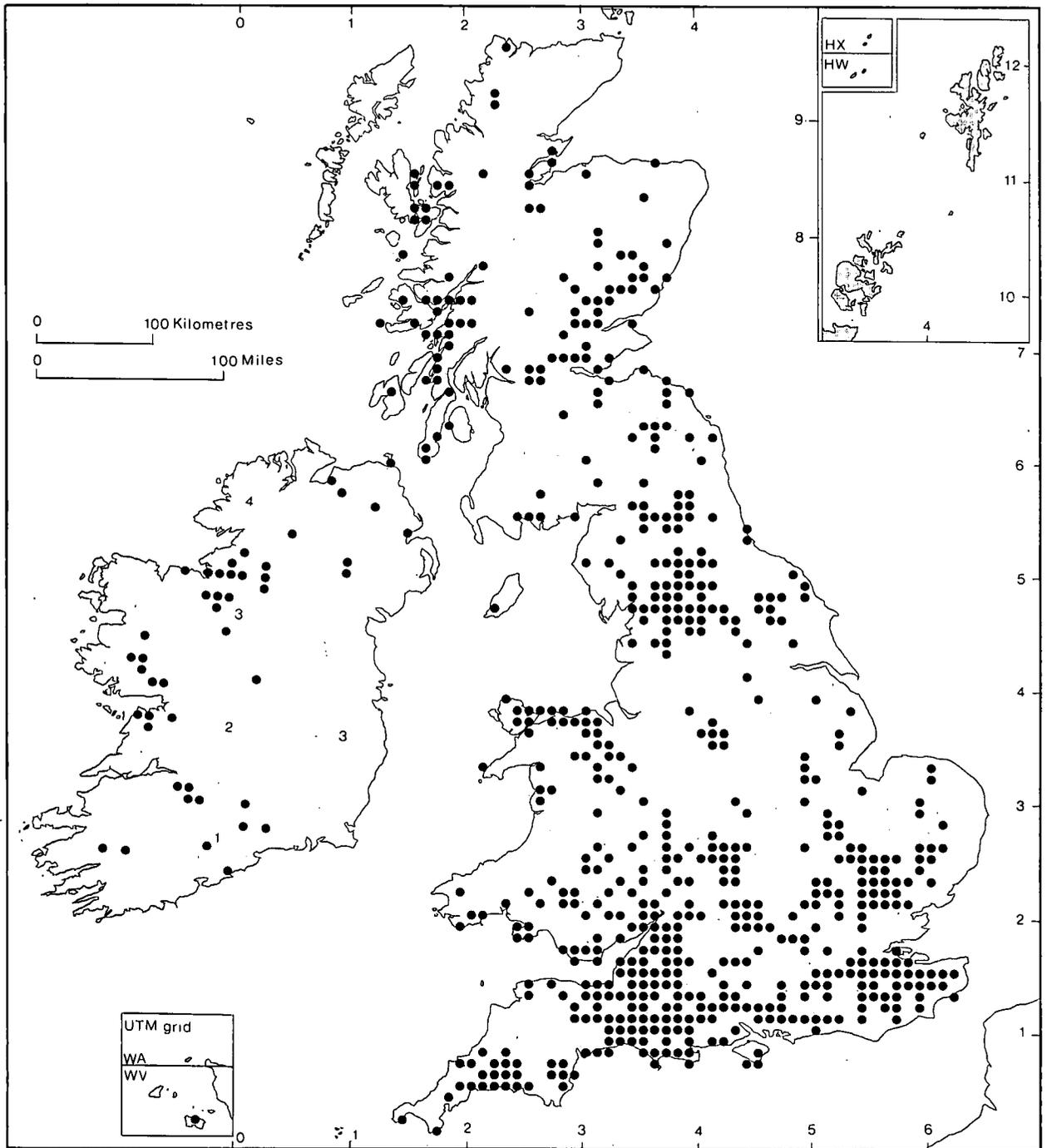
All records ●



2 *Acaulon muticum* (Hedw.) C. Müll.

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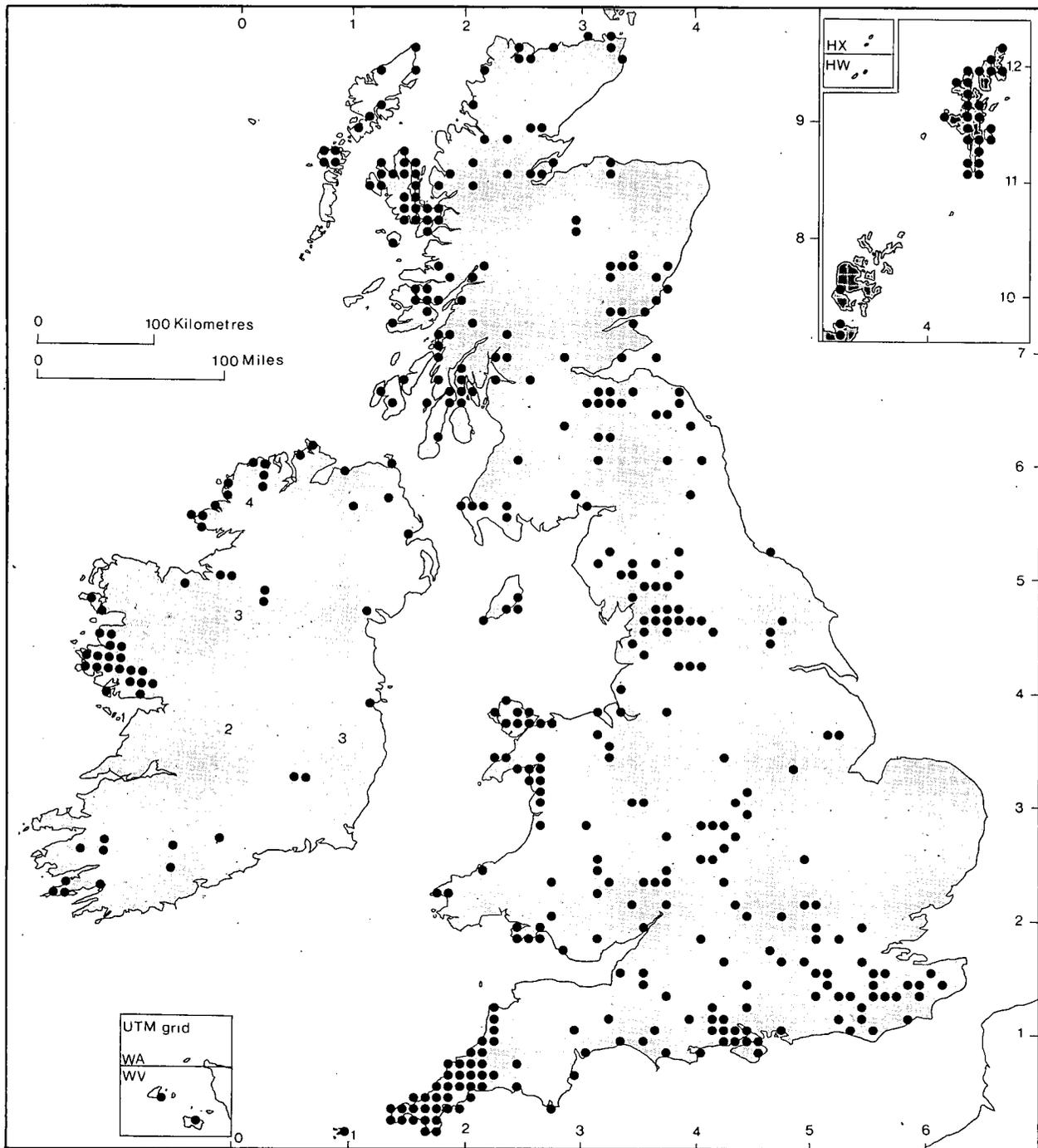
All records ●



3 *Anomodon viticulosus* (Hedw.) Hook. & Tayl.

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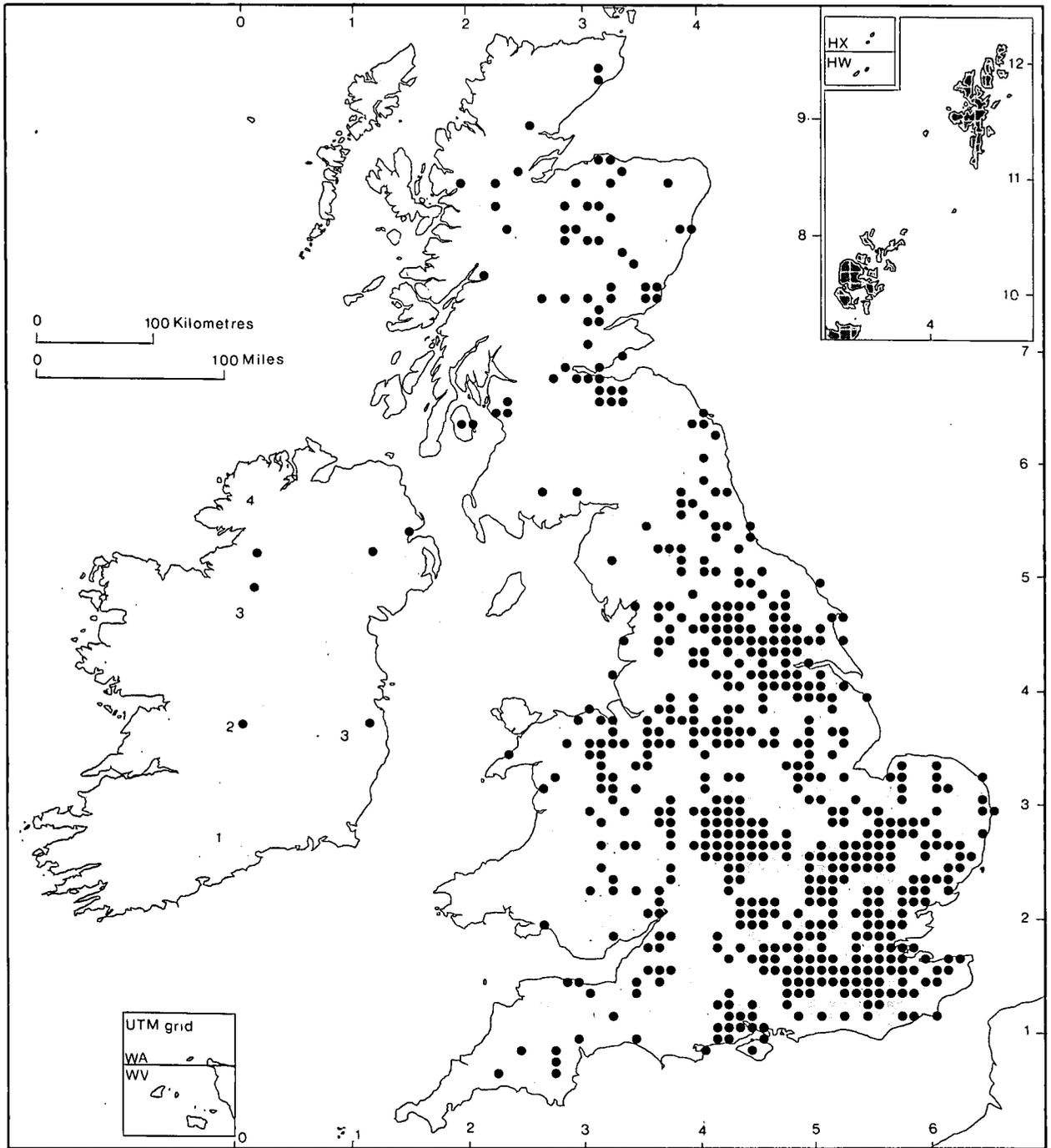
All records ●



4 Archidium alternifolium (Hedw.) Schimp.

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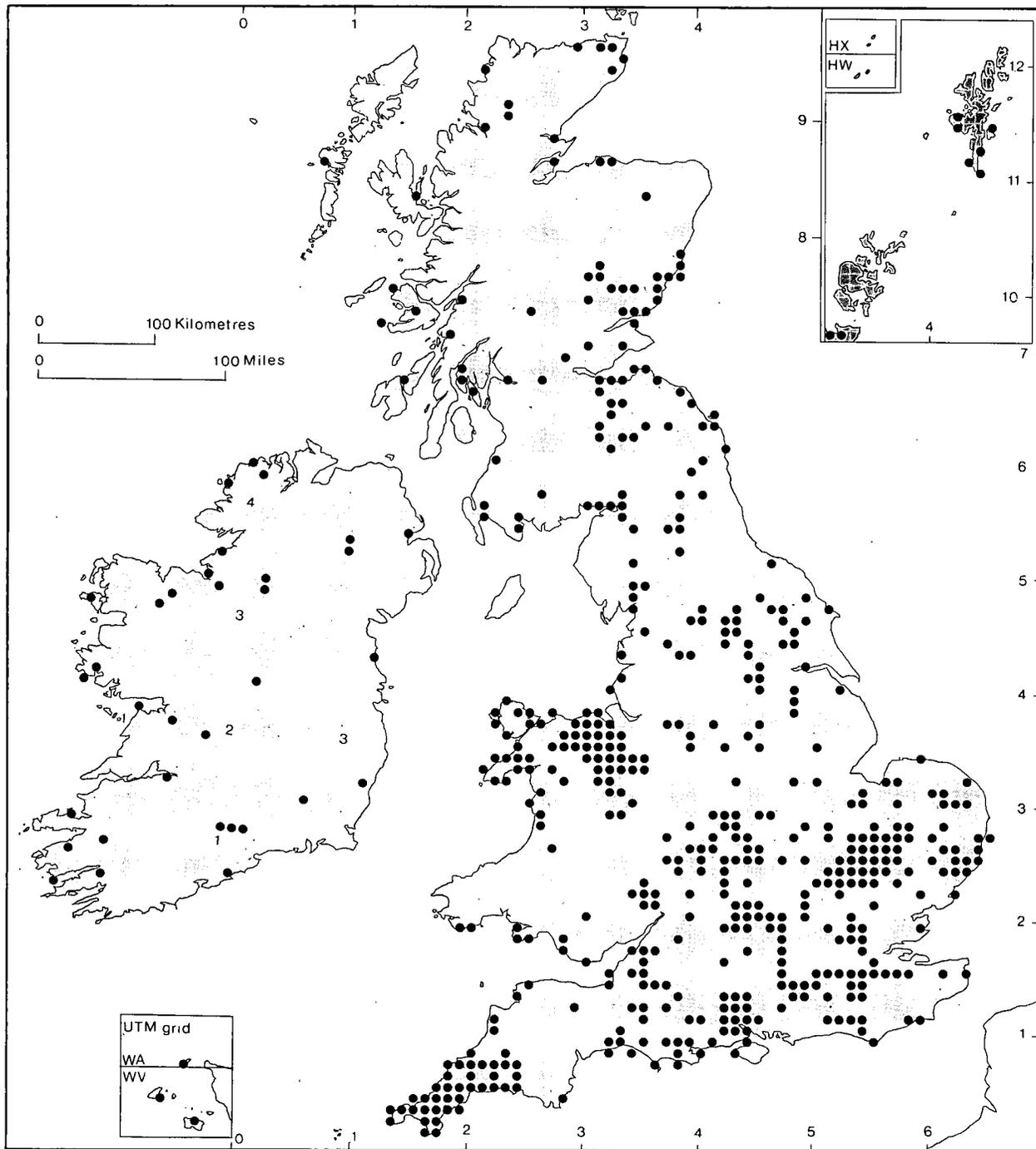
All records ●



5 *Aulacomnium androgynum* (Hedw.) Schwaegr.

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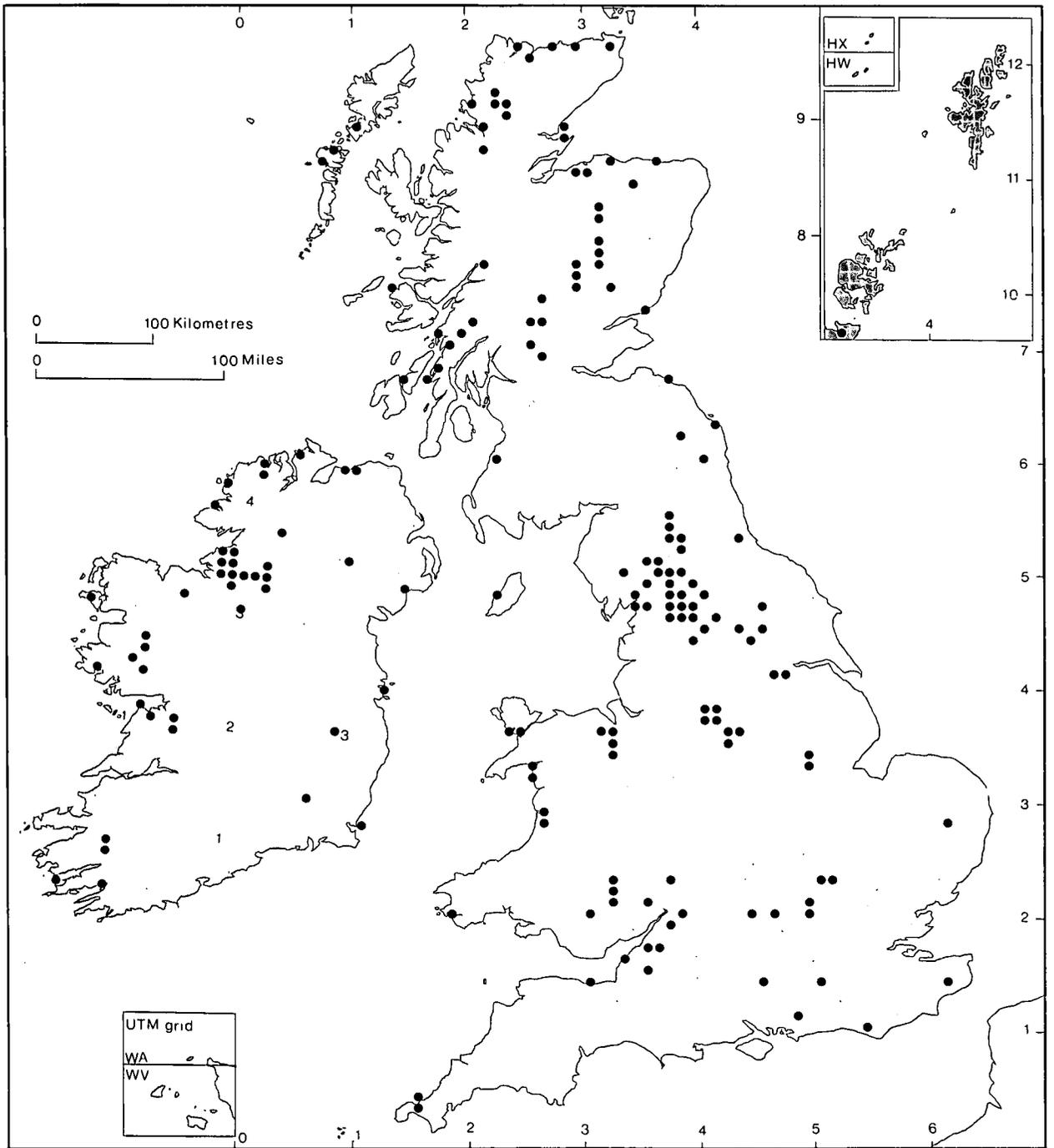
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6 *Barbula hornschurchiana* Schultz.

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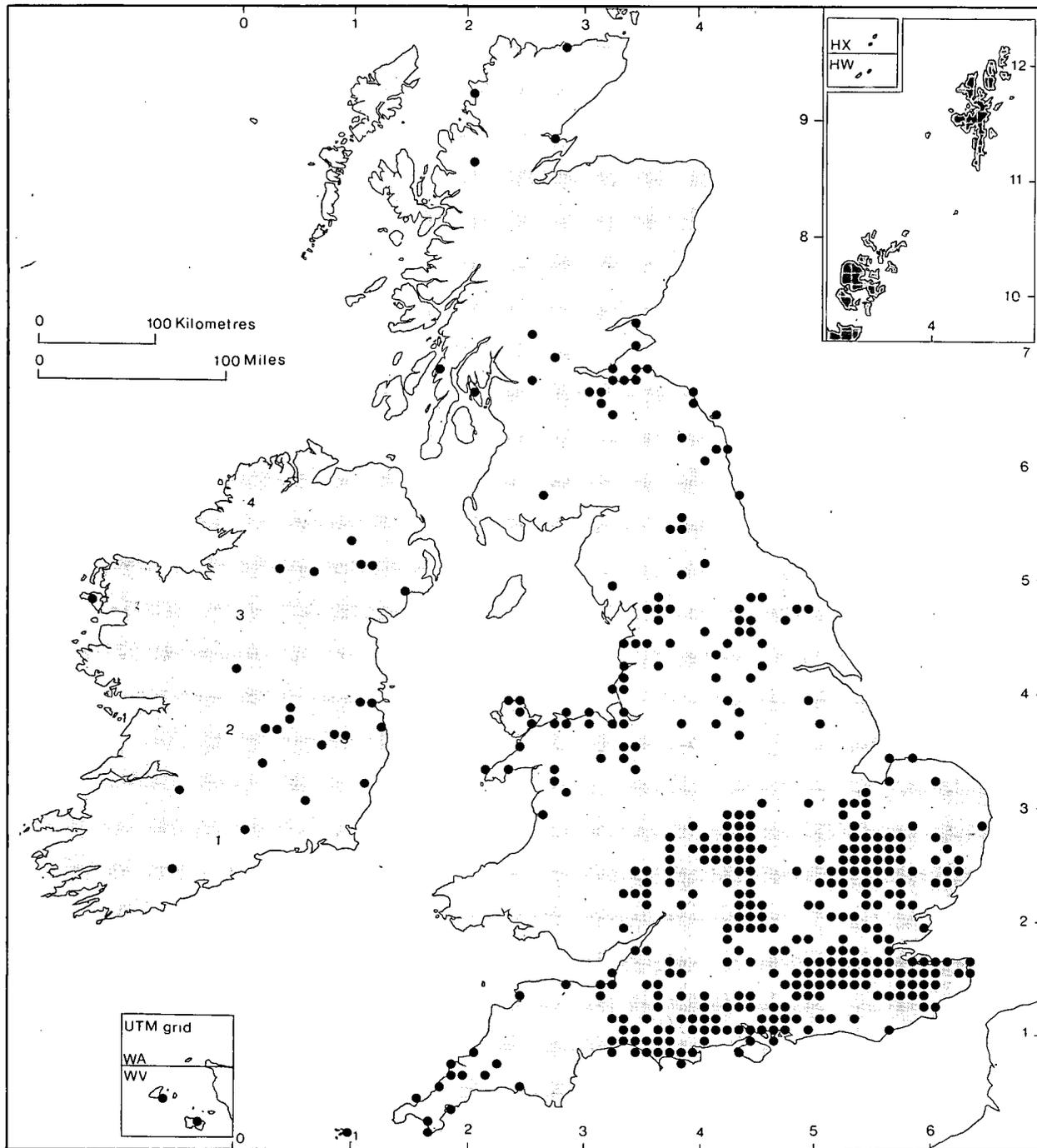
All records ●



7 *Barbula reflexa* (Brid.) Brid.

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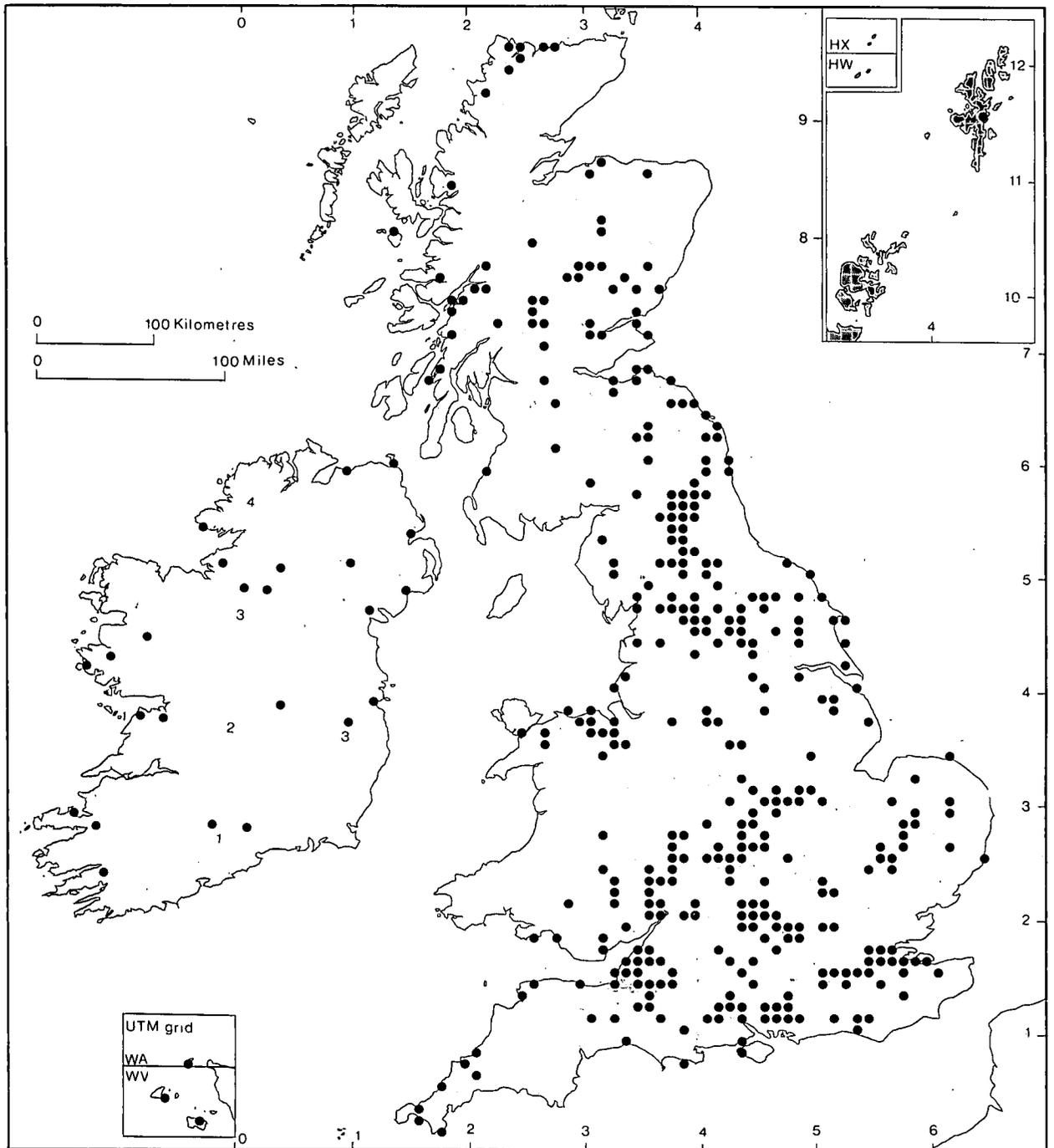
All records ●



8 *Barbula vinealis* Brid.

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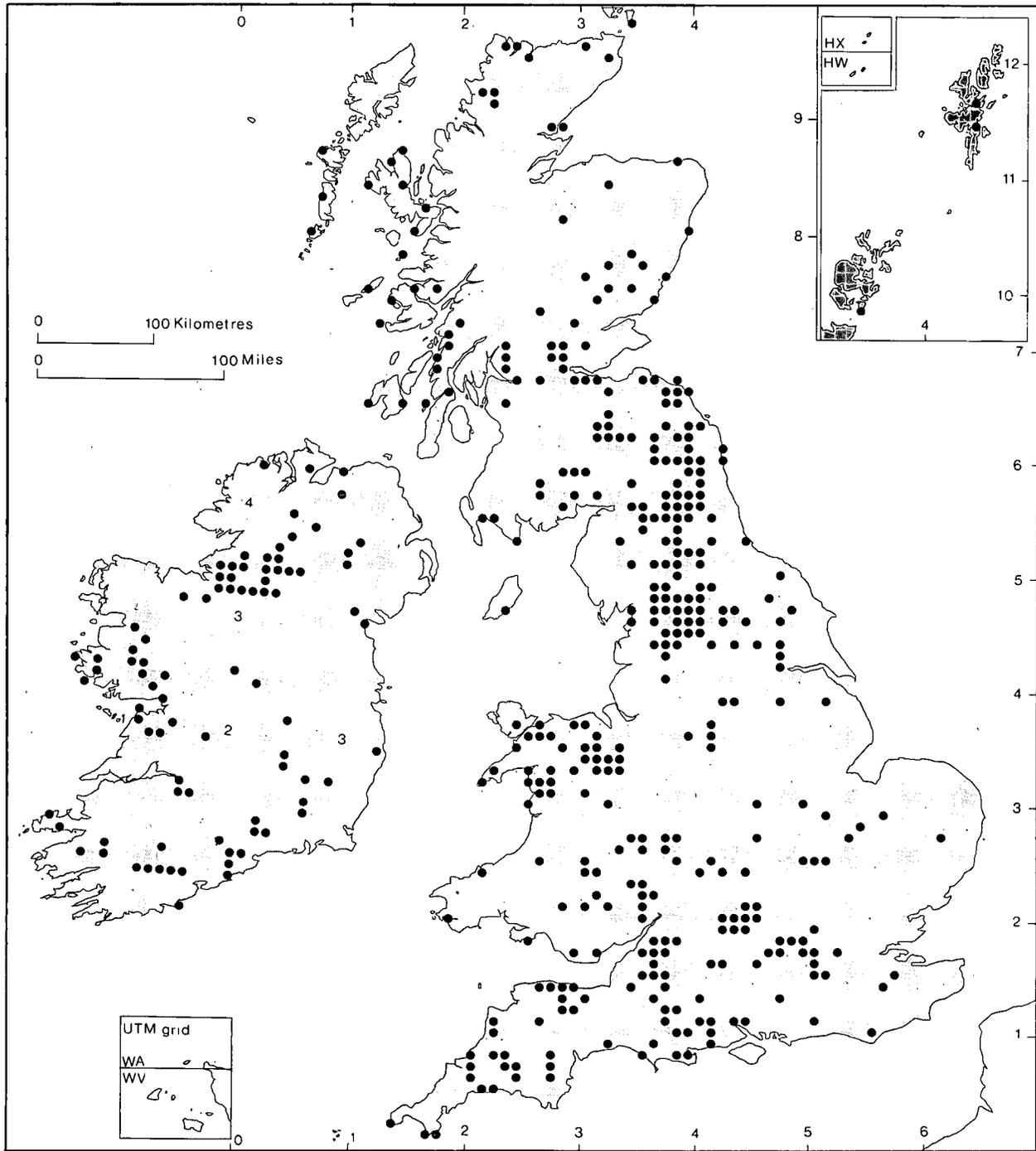
All records ●



9 *Brachythecium glareosum* (Spruce) Br. Eur.

Provisional January 1978

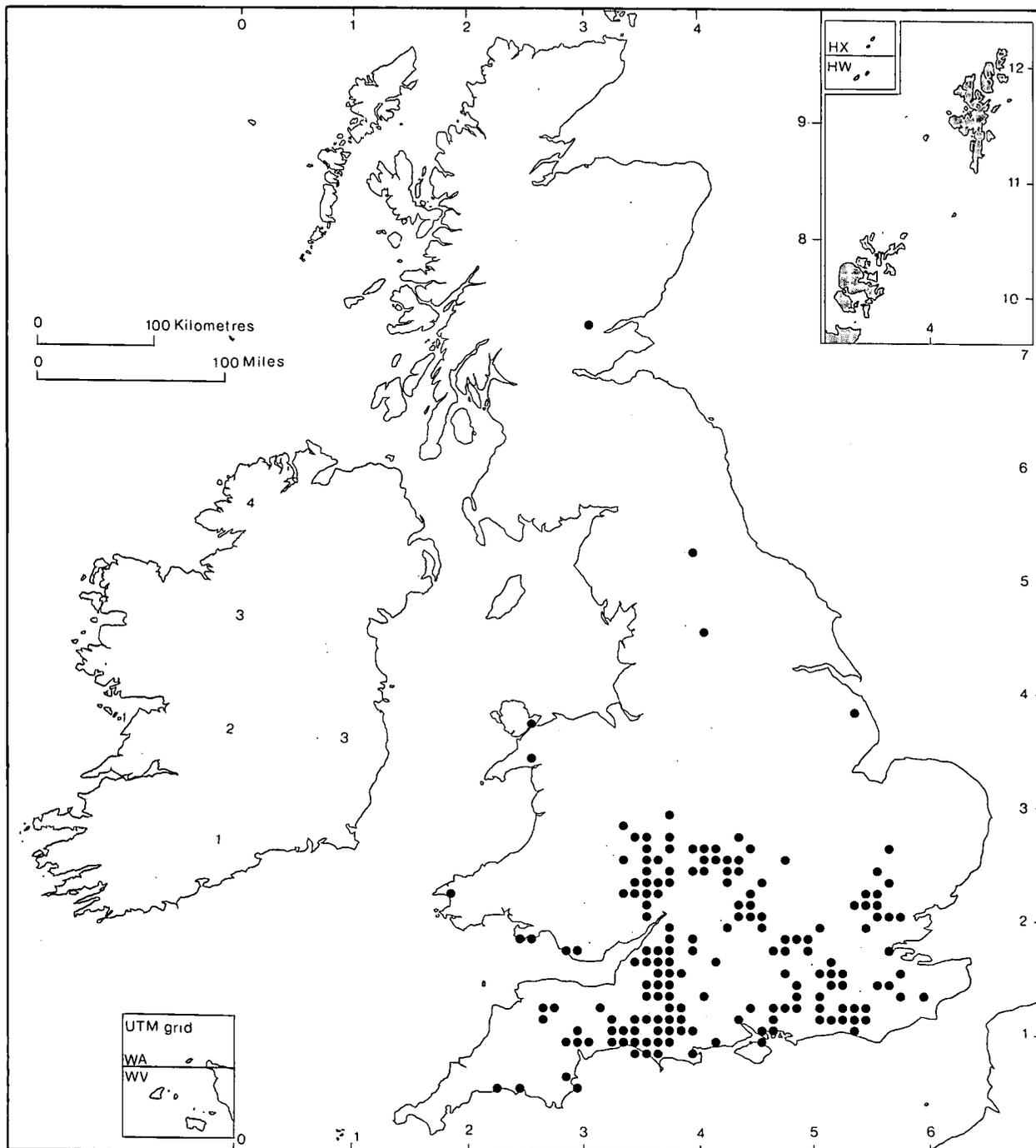
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10 *Cinclidotus fontinaloides*

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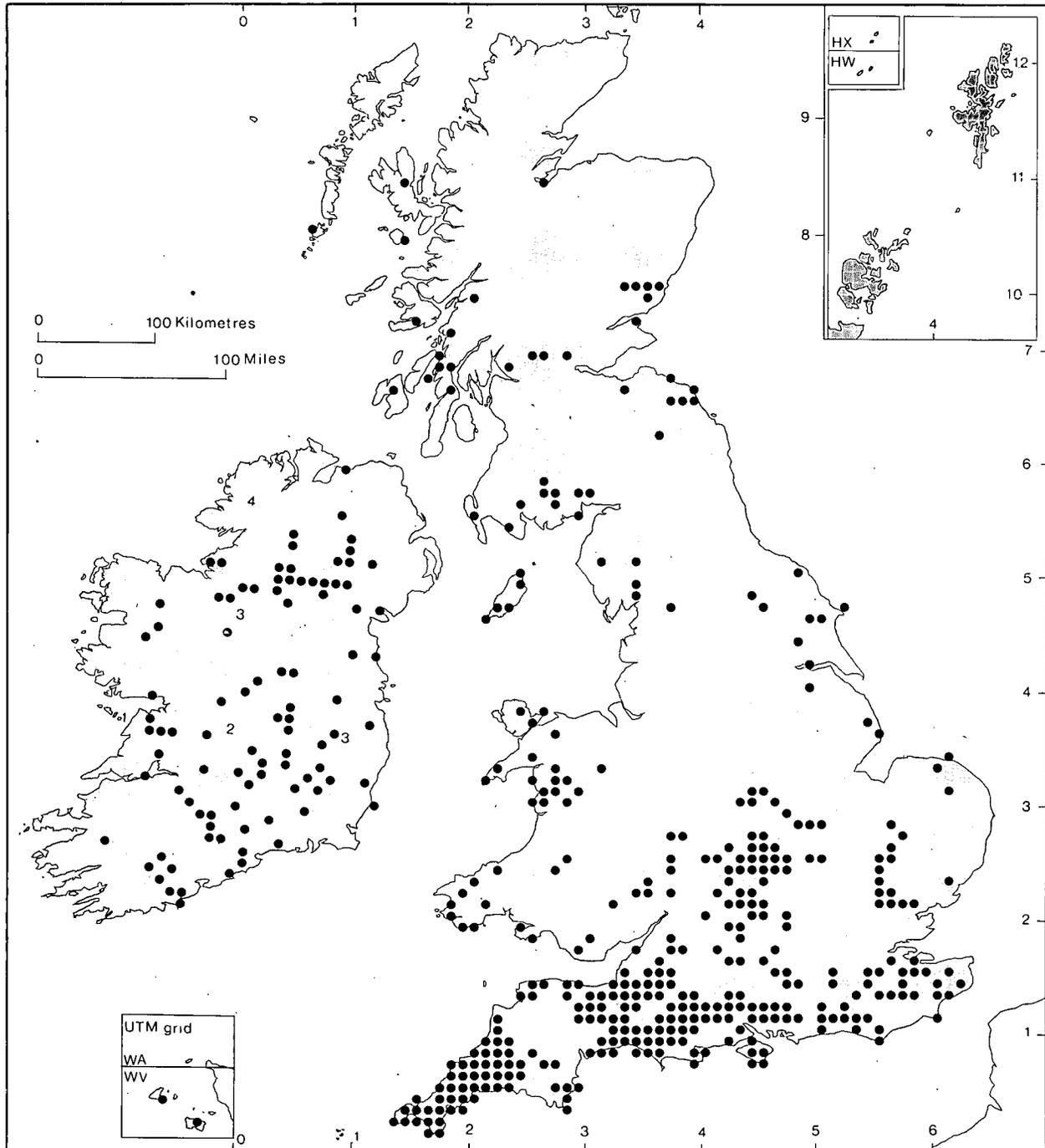
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11 Cinclidotus mucronatus (Brid.) Mach.

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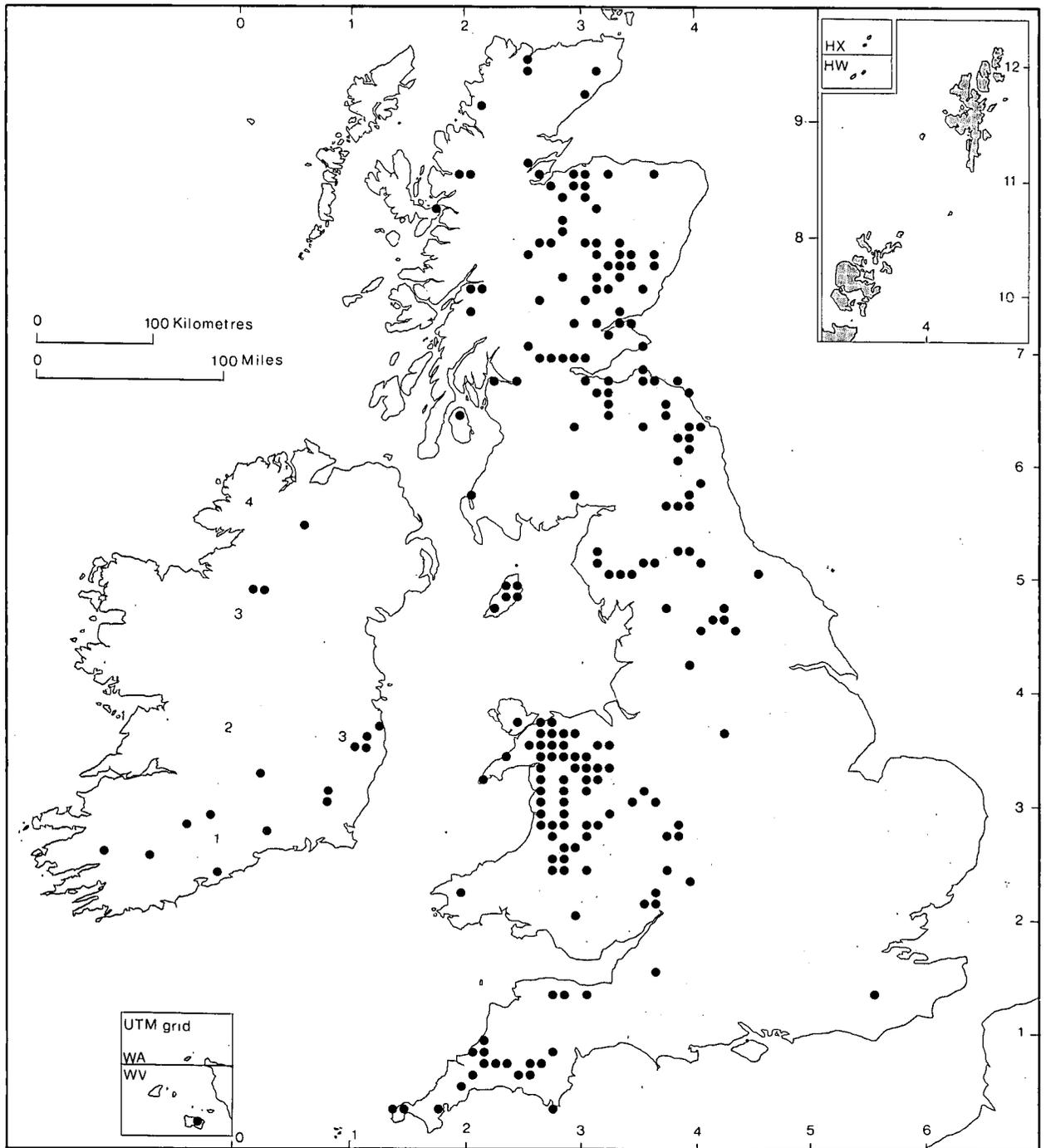
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12 *Cryphaea heteromalla* (Hedw.) Mohr.

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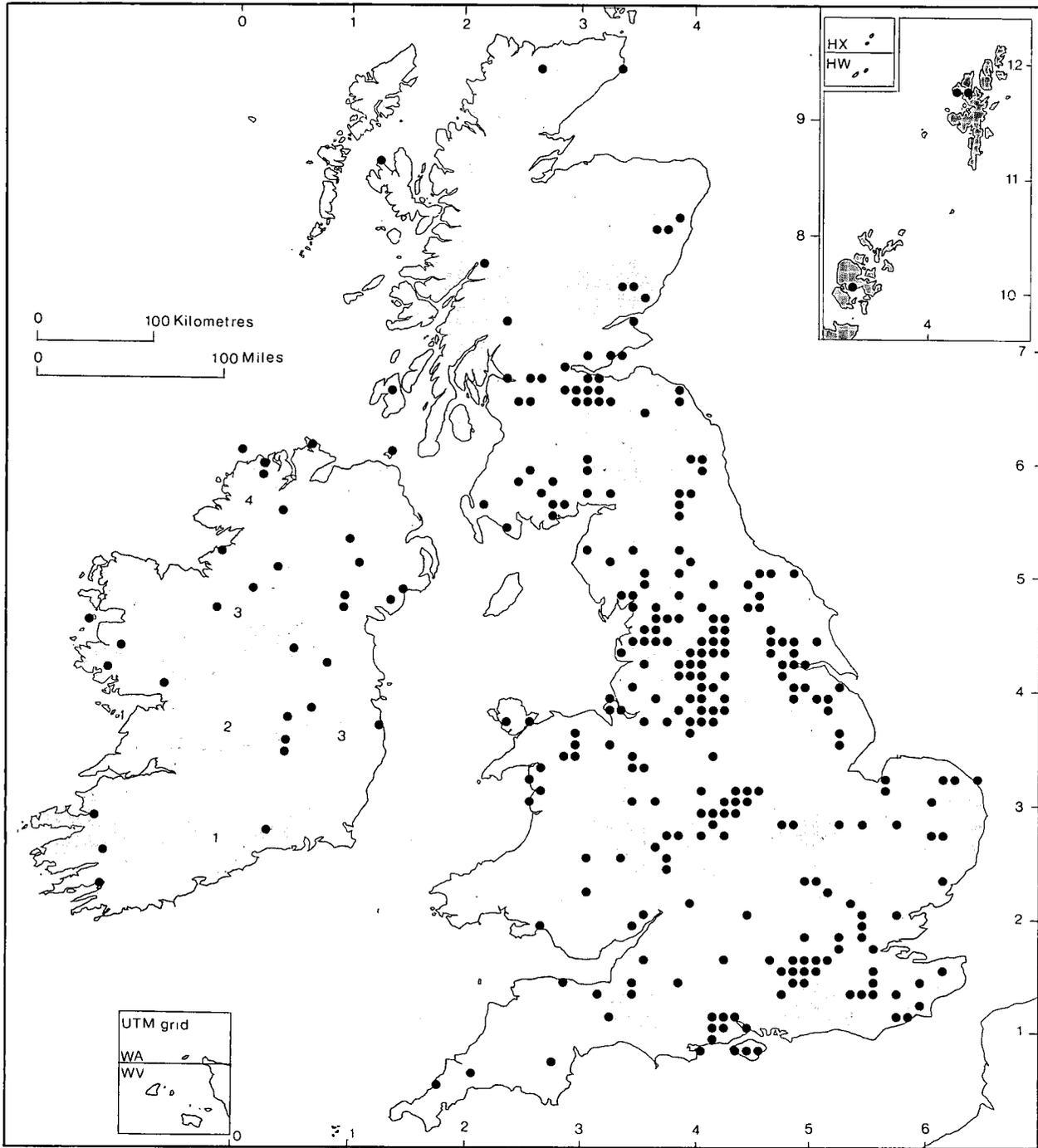
All records ●



13 *Cynodontium bruntonii* (Sm.) Br. Eur.

Provisional January 1978

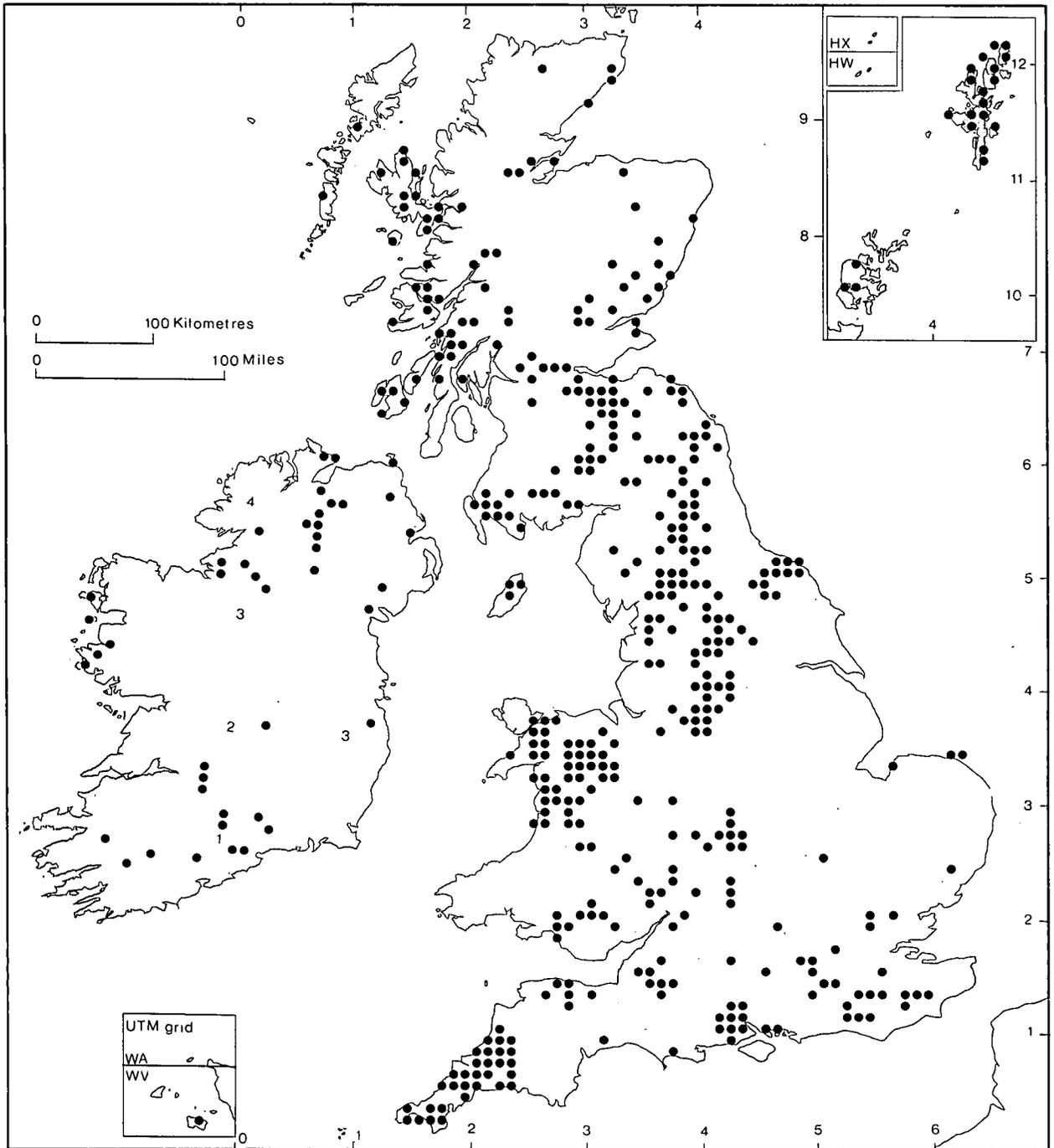
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14 Dicranella cerviculata (Hedw.) Schimp.

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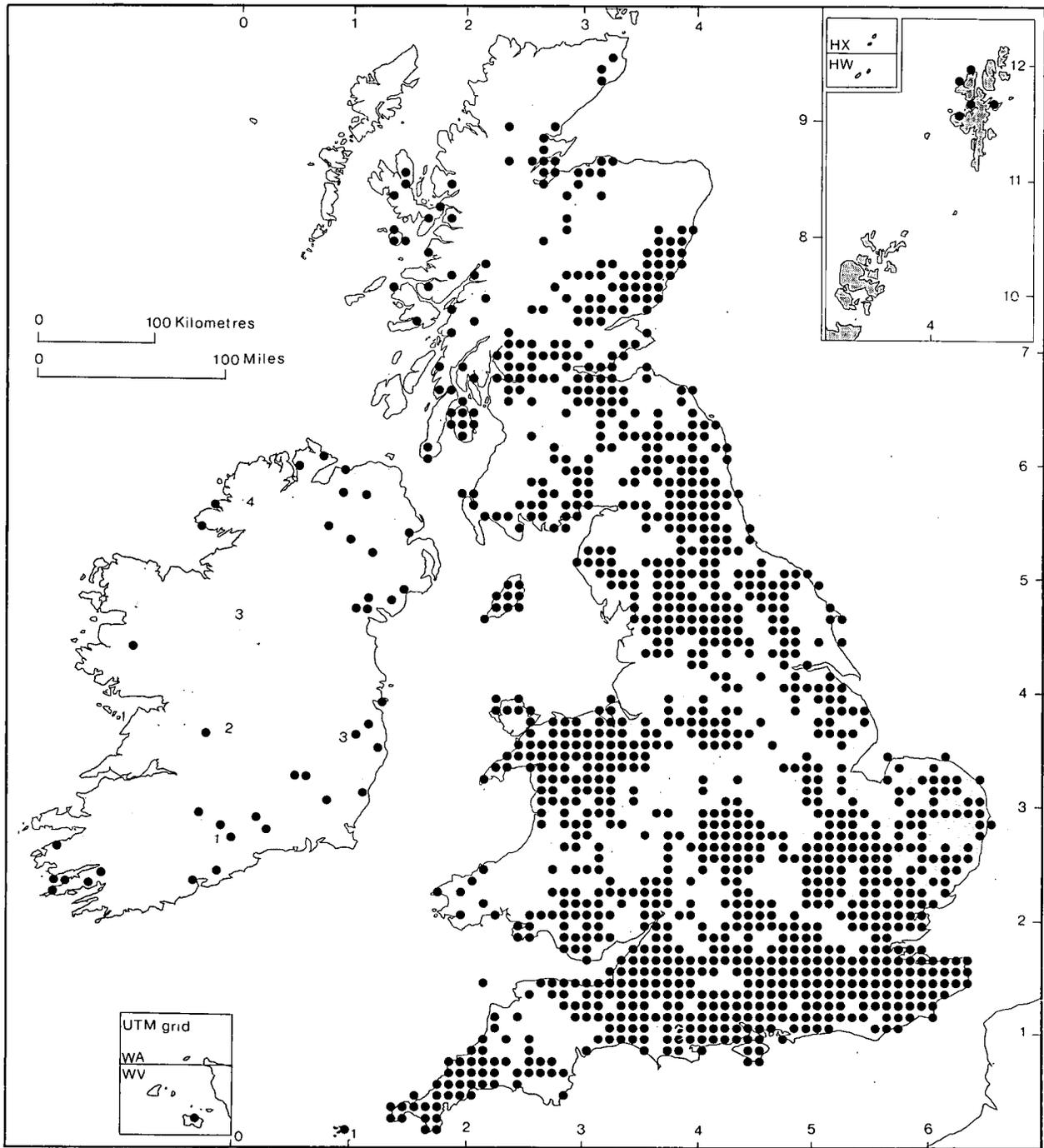
All records ●



15 *Dicranella rufescens* (With.) Schimp.

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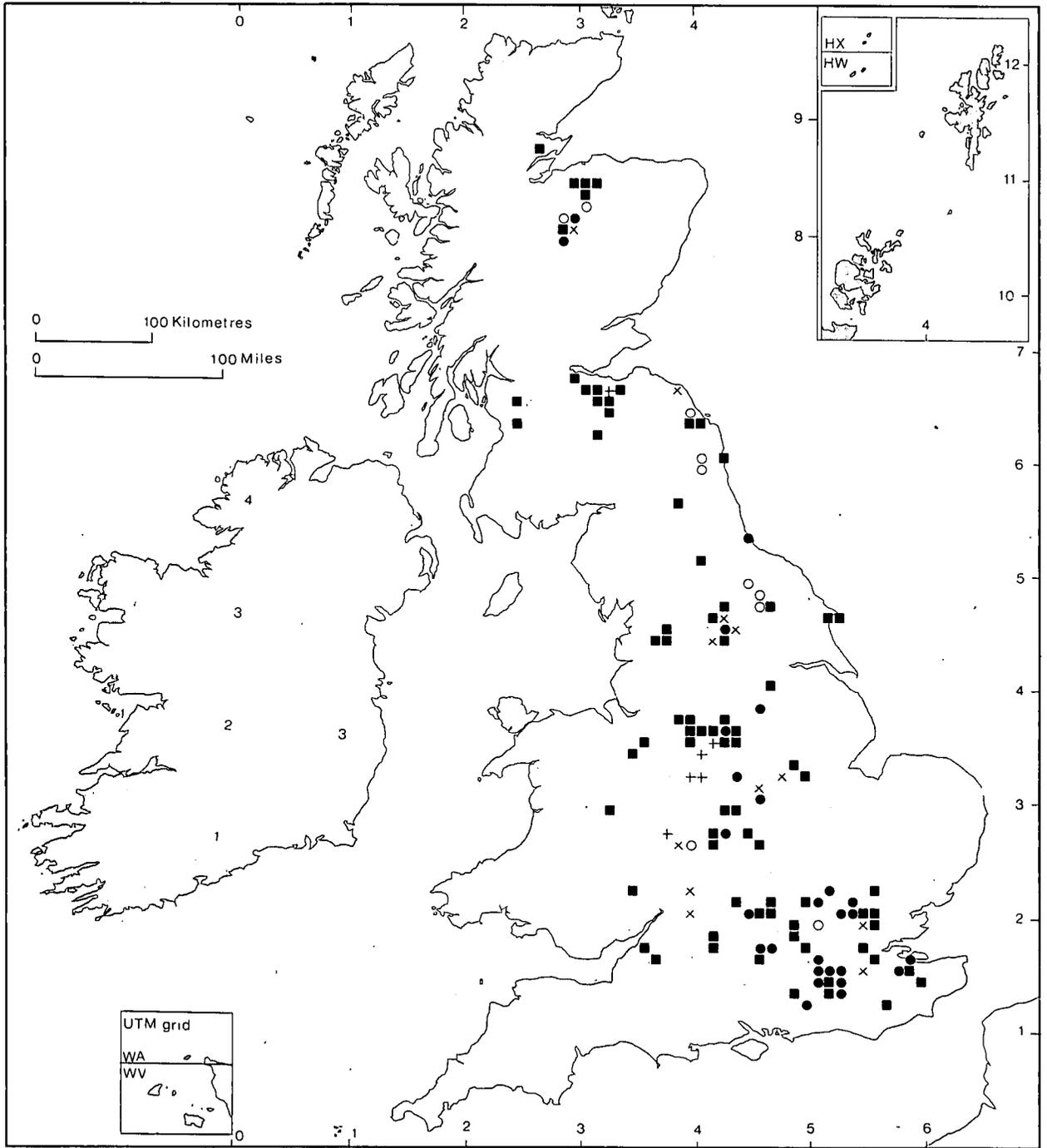
All records ●



16 *Dicranoweisia cirrata* (Hedw.) Lindb. ex Milde

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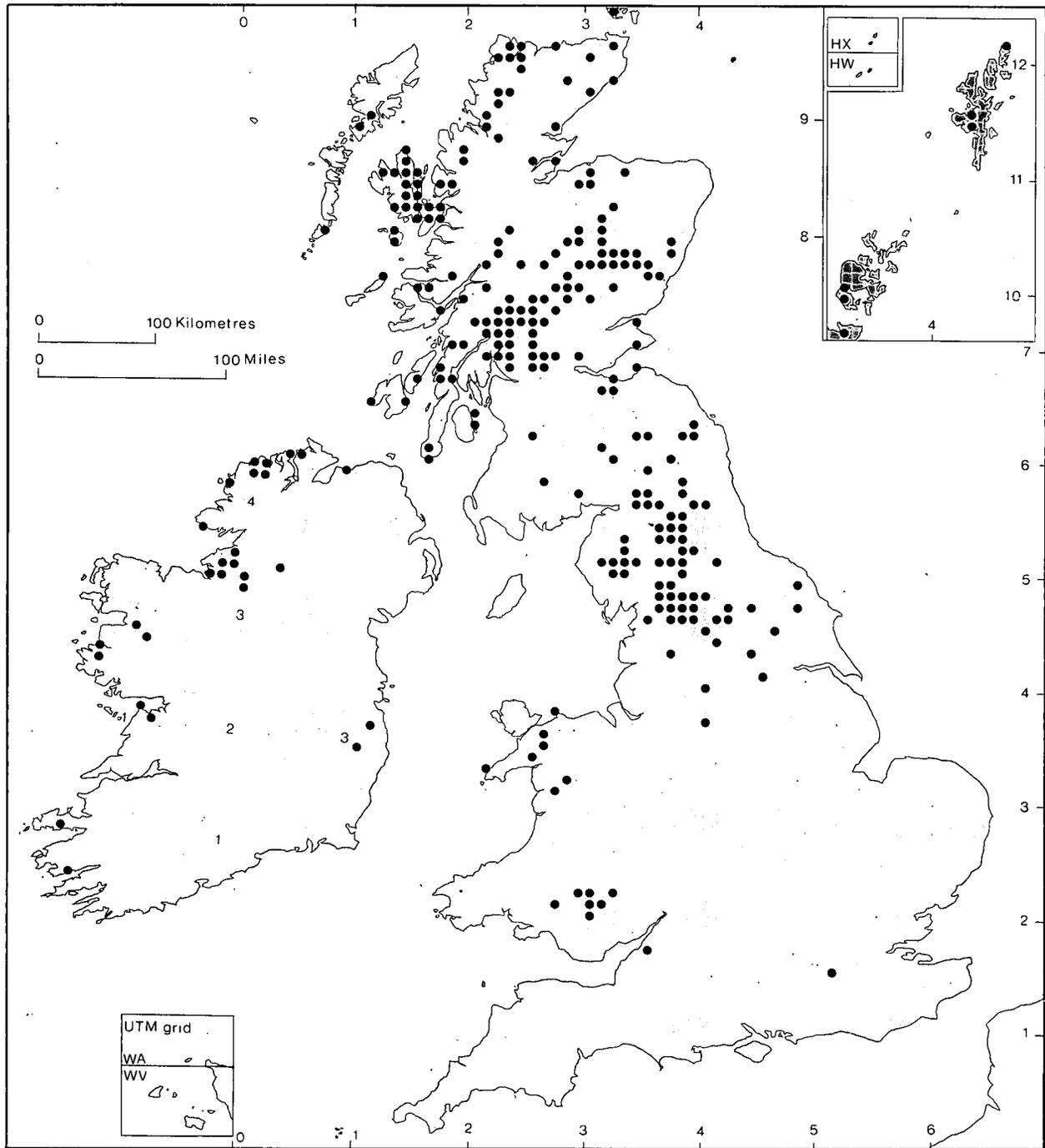
All records ●



17 Dicranum tauricum Sapelin

Dicranum strictum

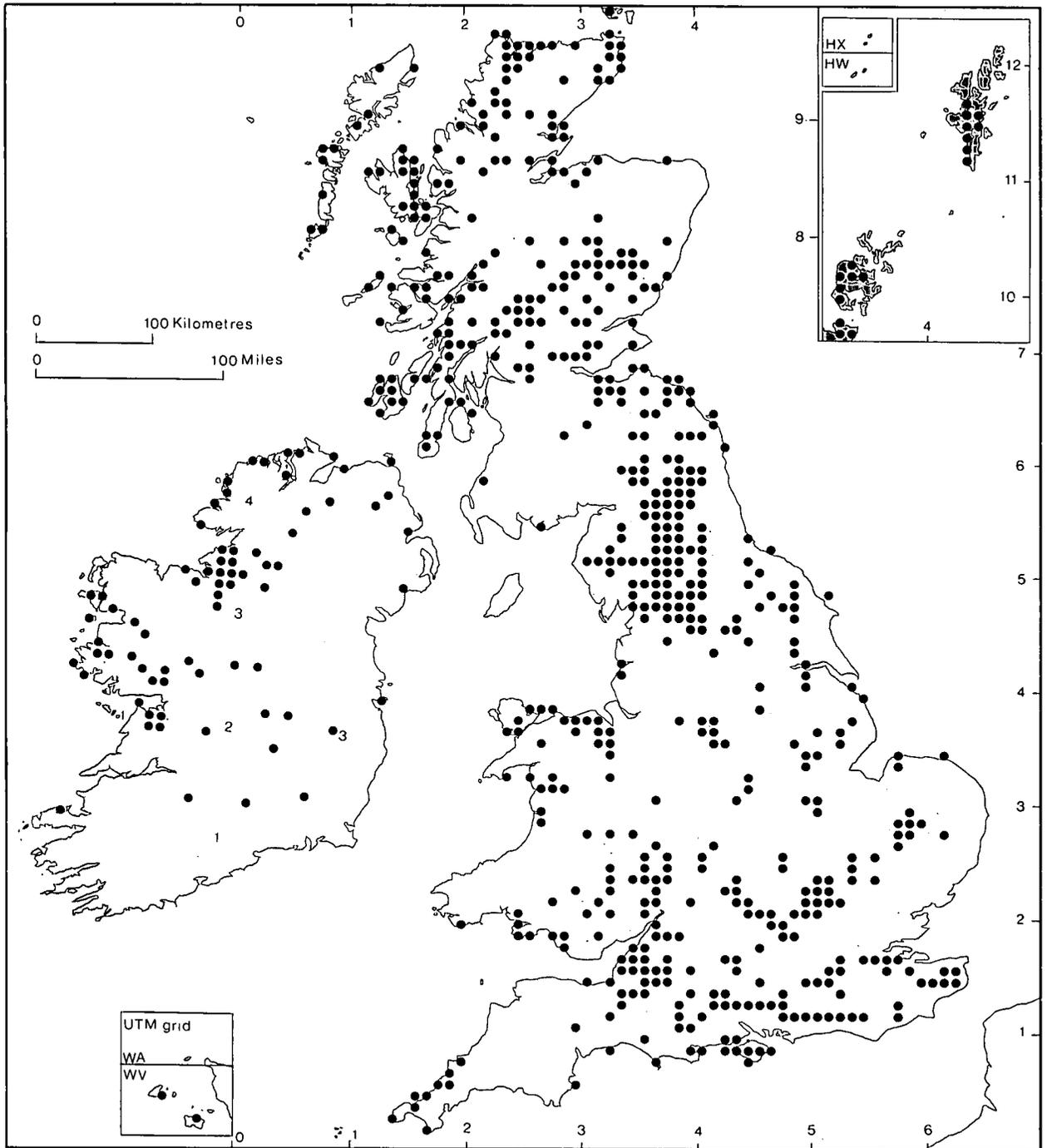
- Before 1900 +
- 1900 – 1920 x
- 1921 – 1940 ○
- 1941 – 1960 ●
- 1961 onwards ■



18 *Distichium capillaceum* (Hedw.) Br. Eur.

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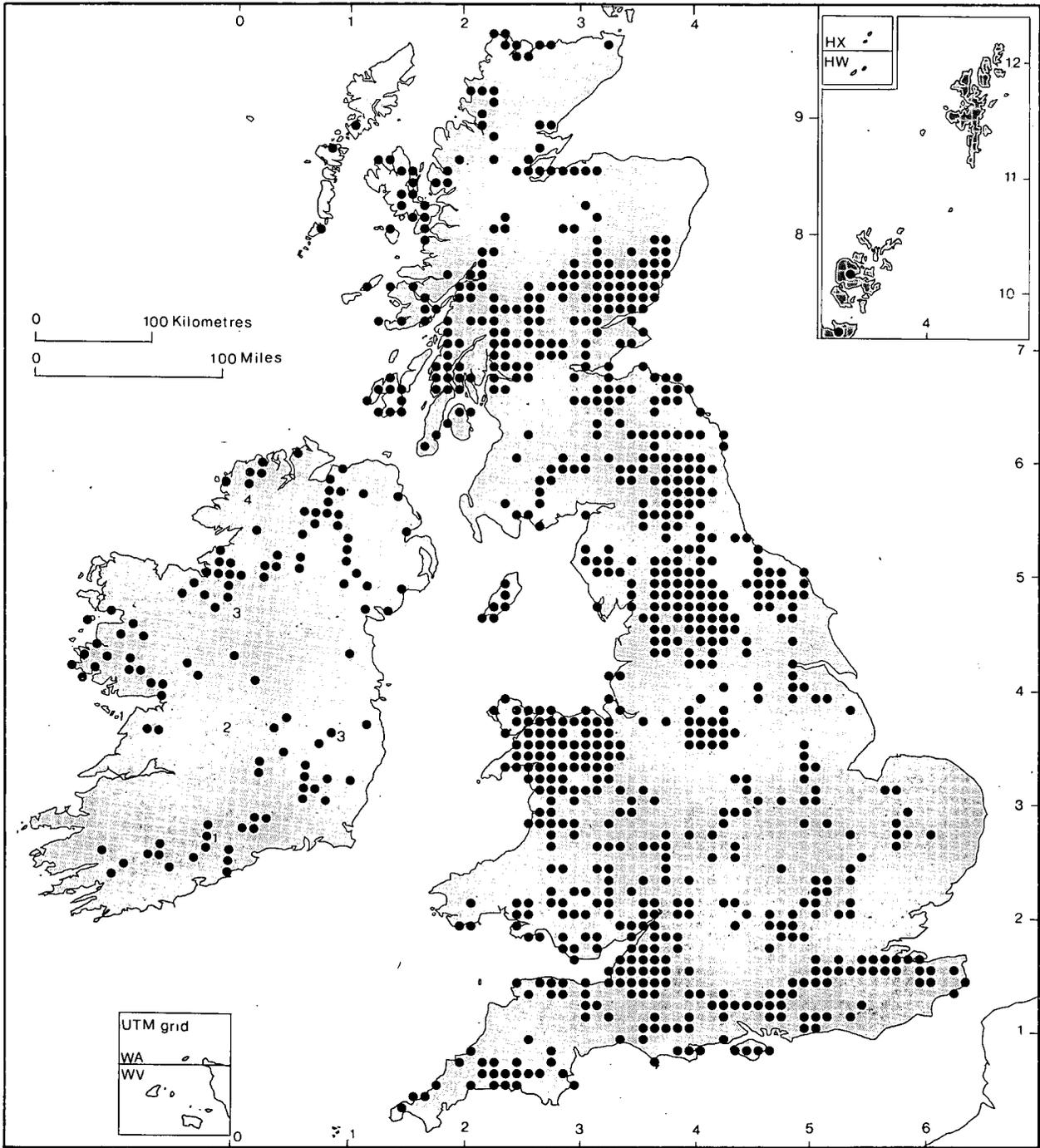
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19 Ditrichum flexicaule (Schimp.) Hampe

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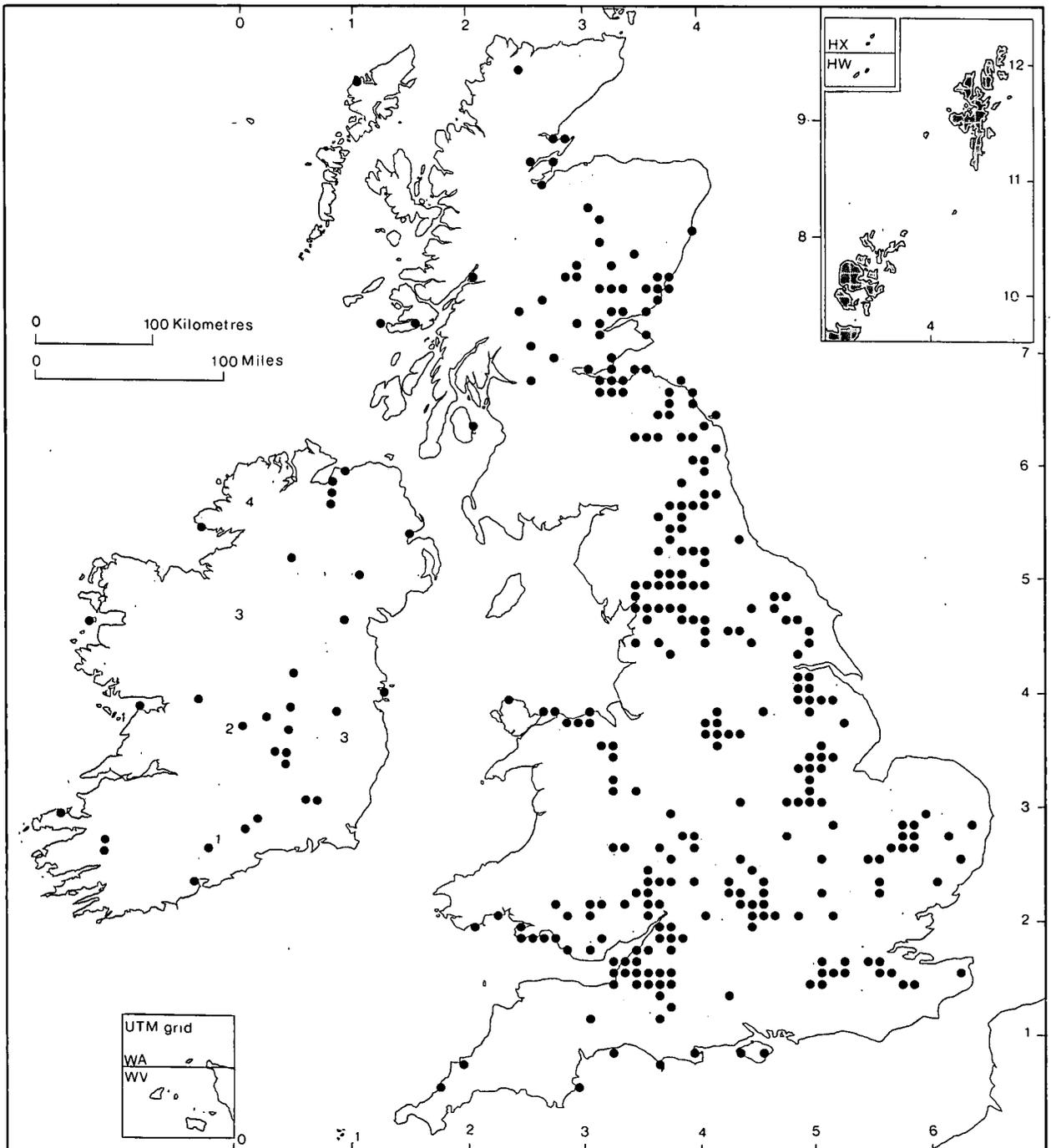
All records ●



20 Encalypta streptocarpa Hedw.

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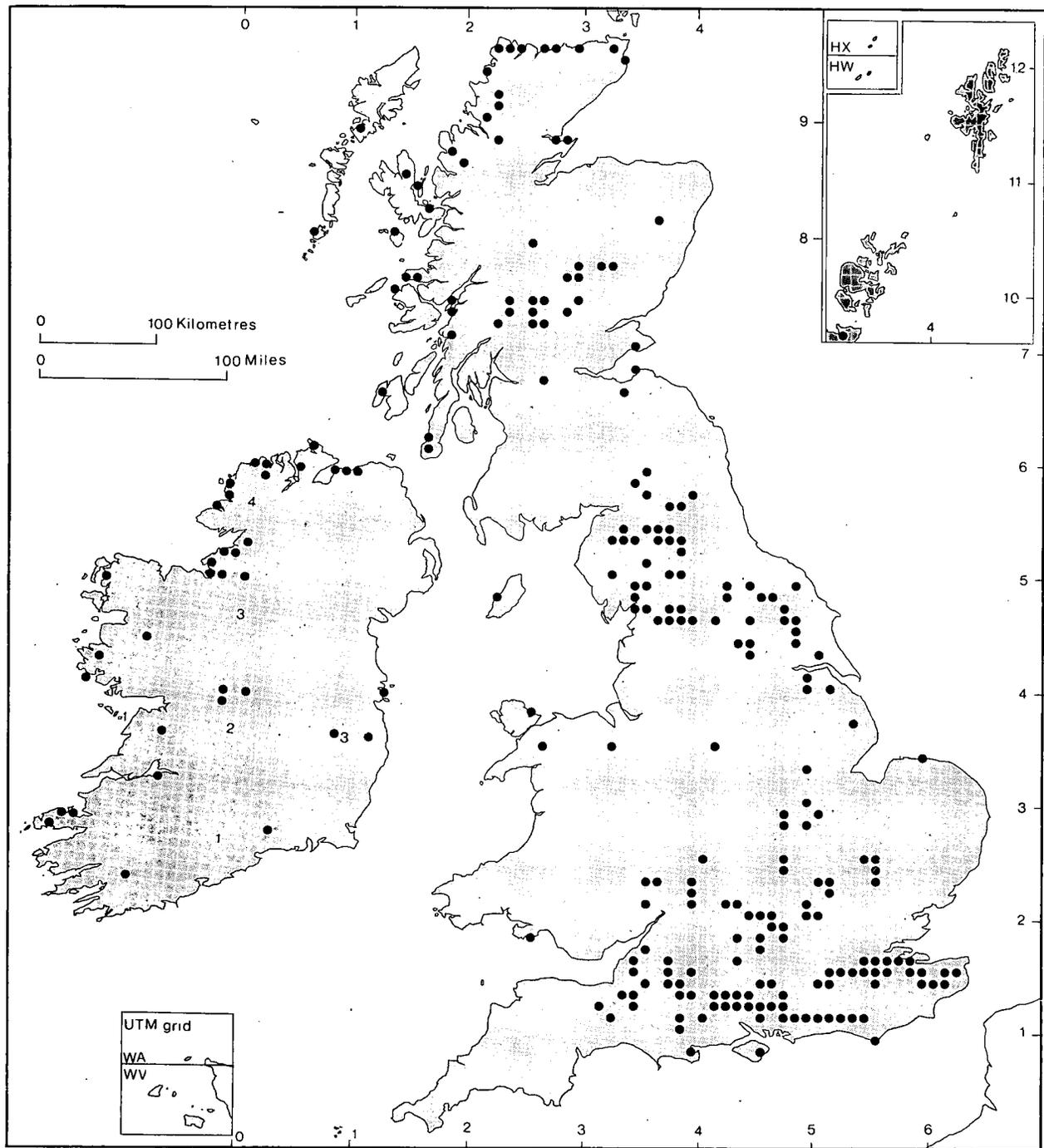
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21 Encalypta vulgaris Hedw.

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All records ●

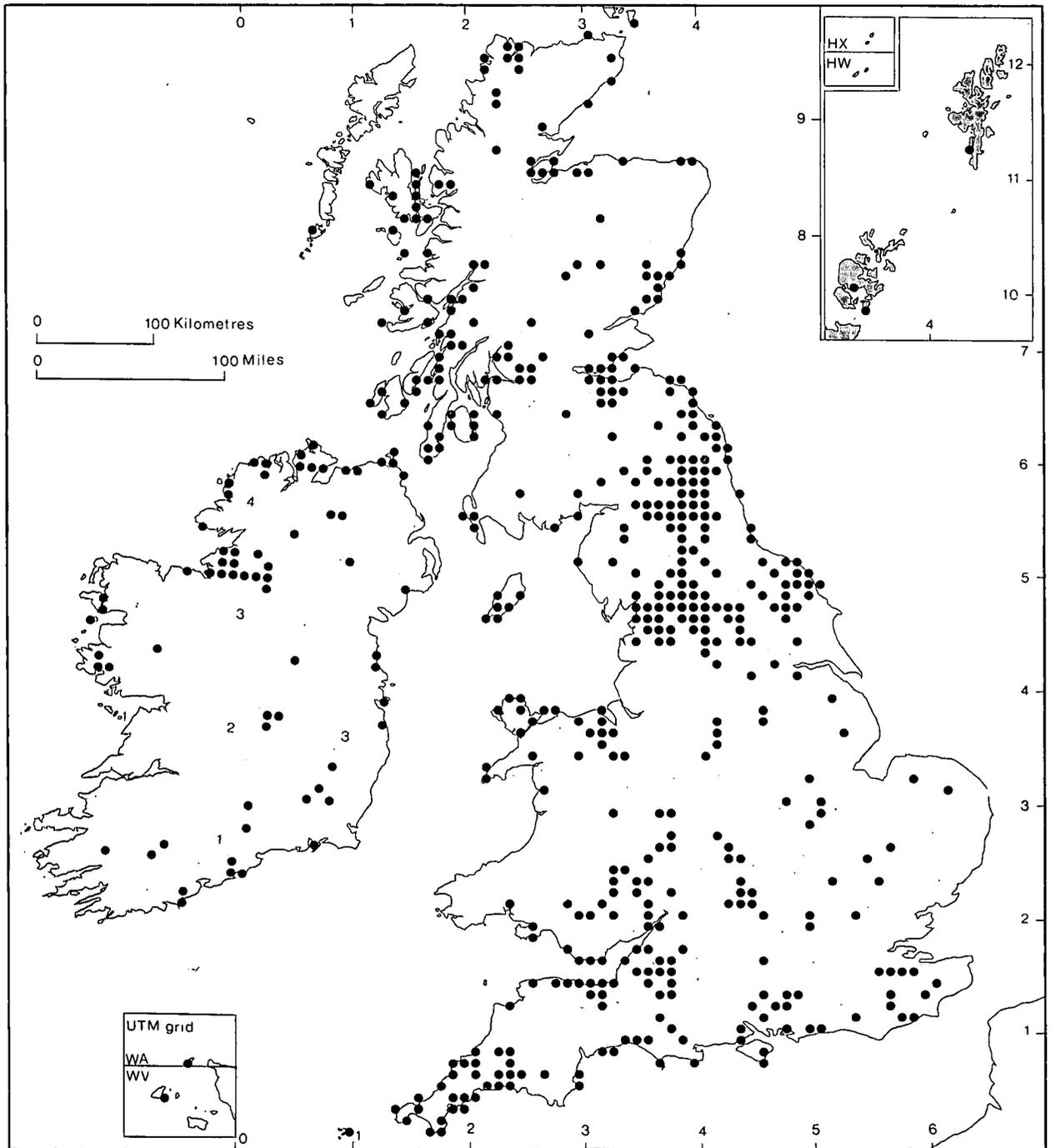


22 *Entodon concinnus* (De Not.) Paris

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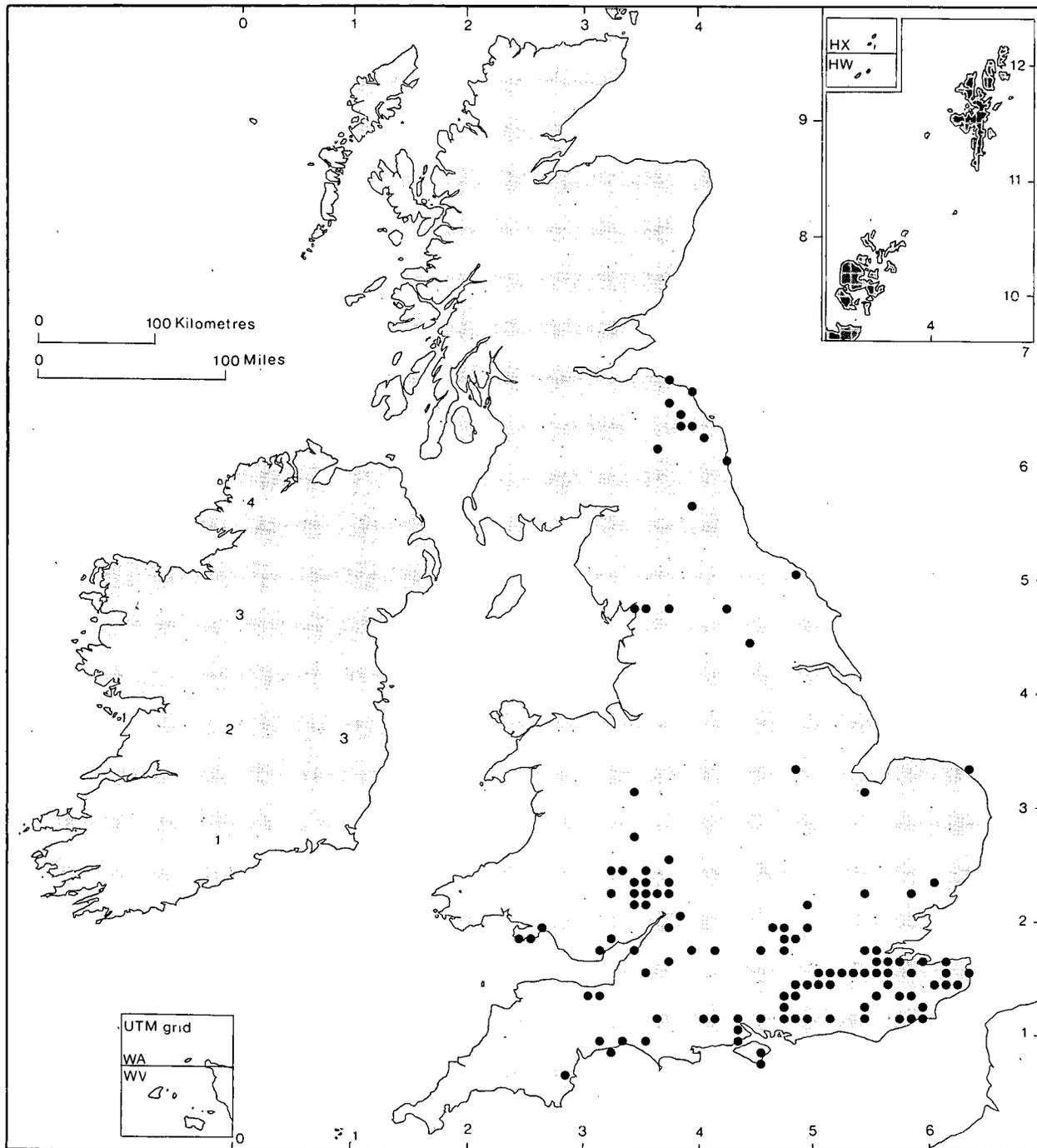
Entodon orthocarpus



23 *Eucladium verticillatum*

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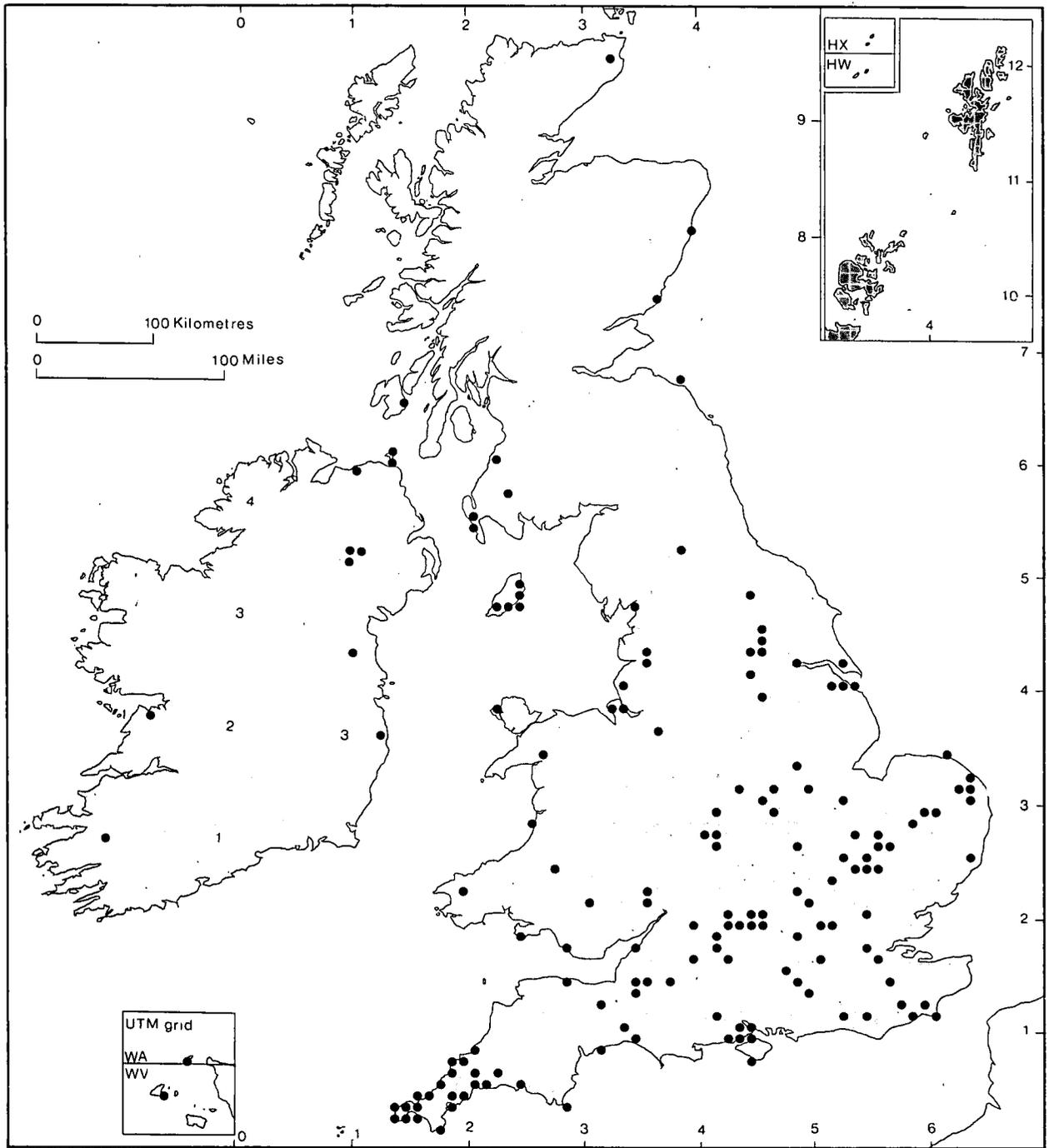
All records ●



24 Eurhynchium schleicheri (Hedw. f.) Milde.

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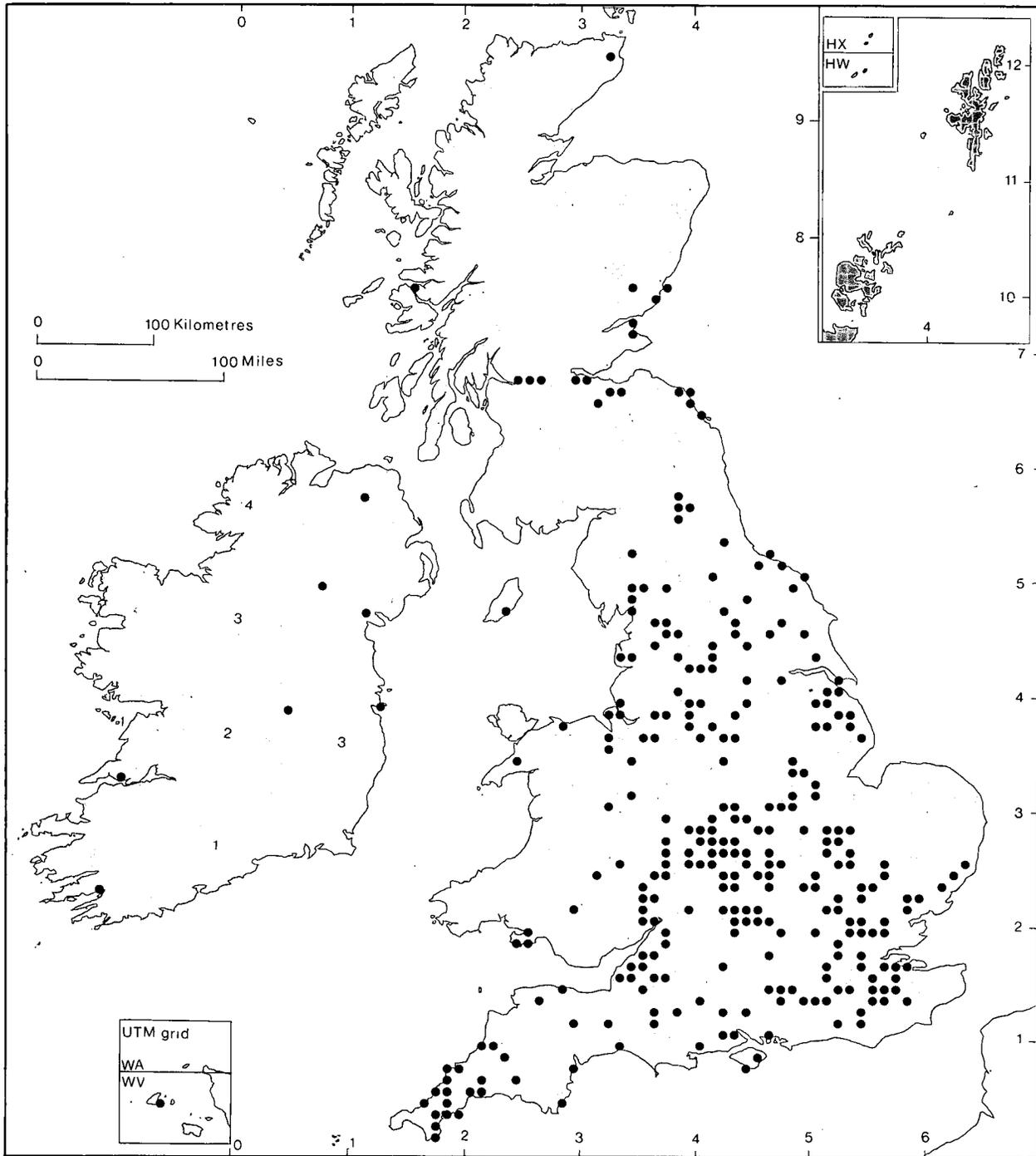
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25 *Eurhynchium speciosum* (Brid.) Jur.

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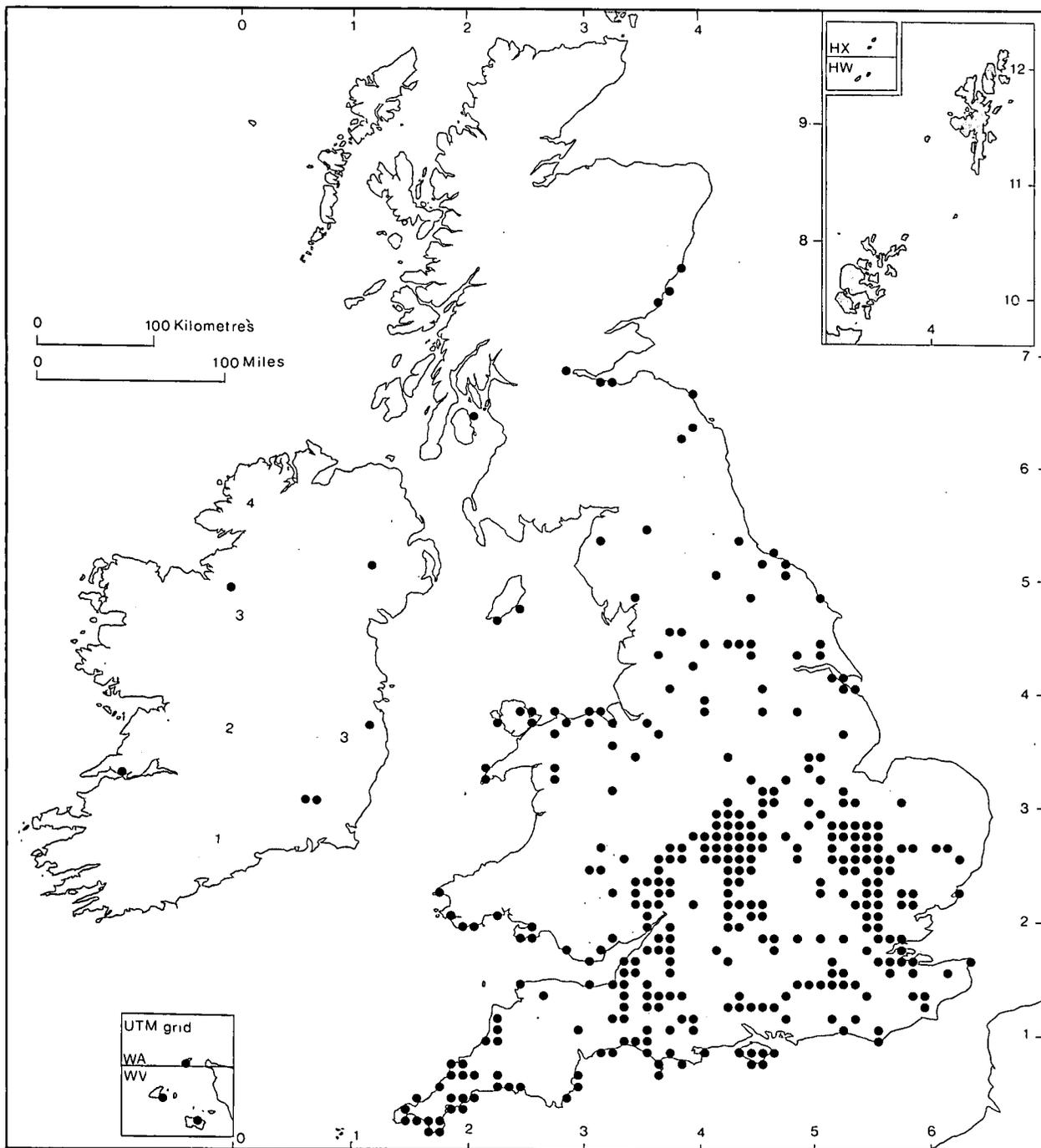
All records ●



26 Fissidens exilis Hedw.

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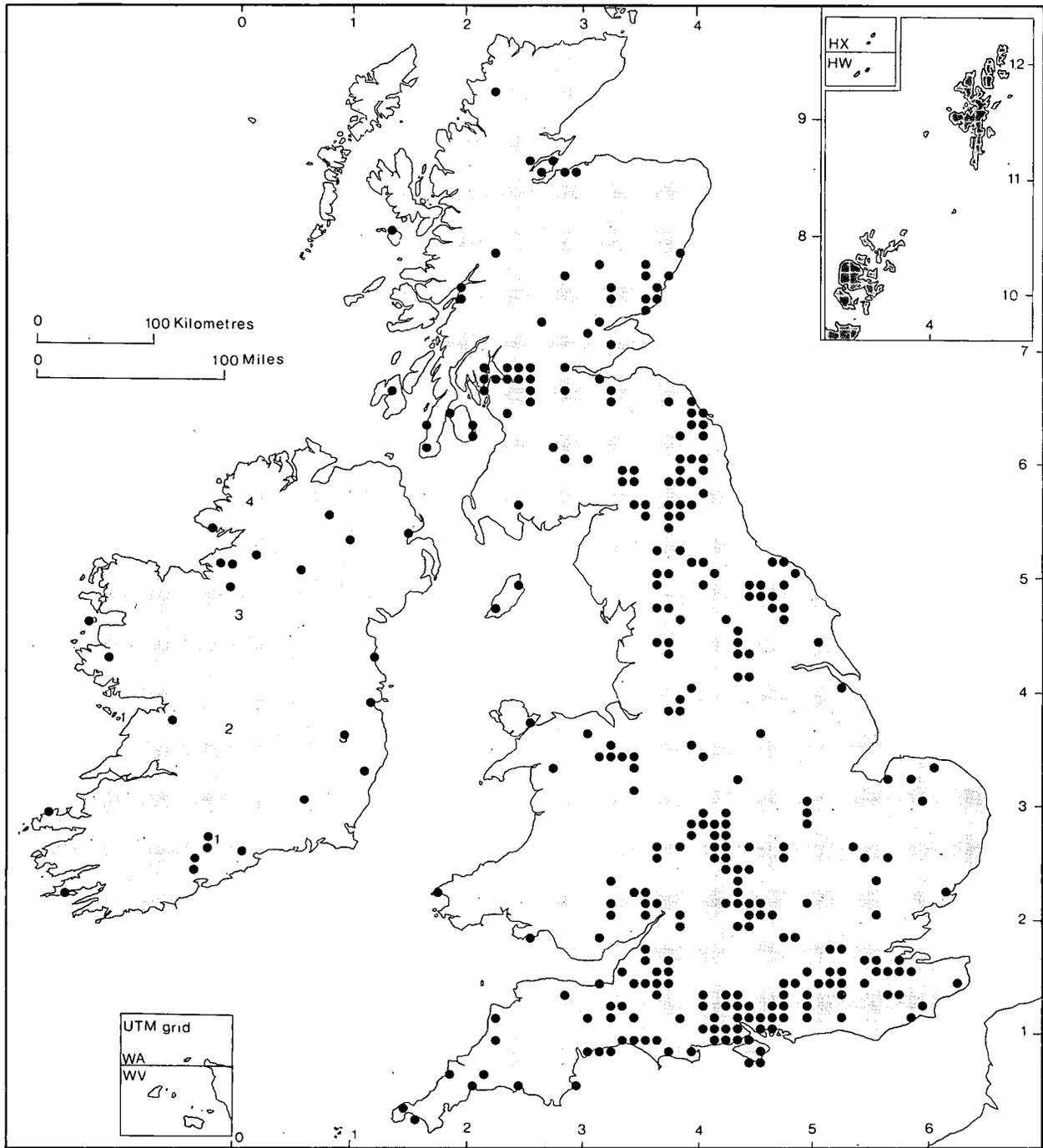
All records ●



27 Fissidens incurvus **Starke ex Röhl.**

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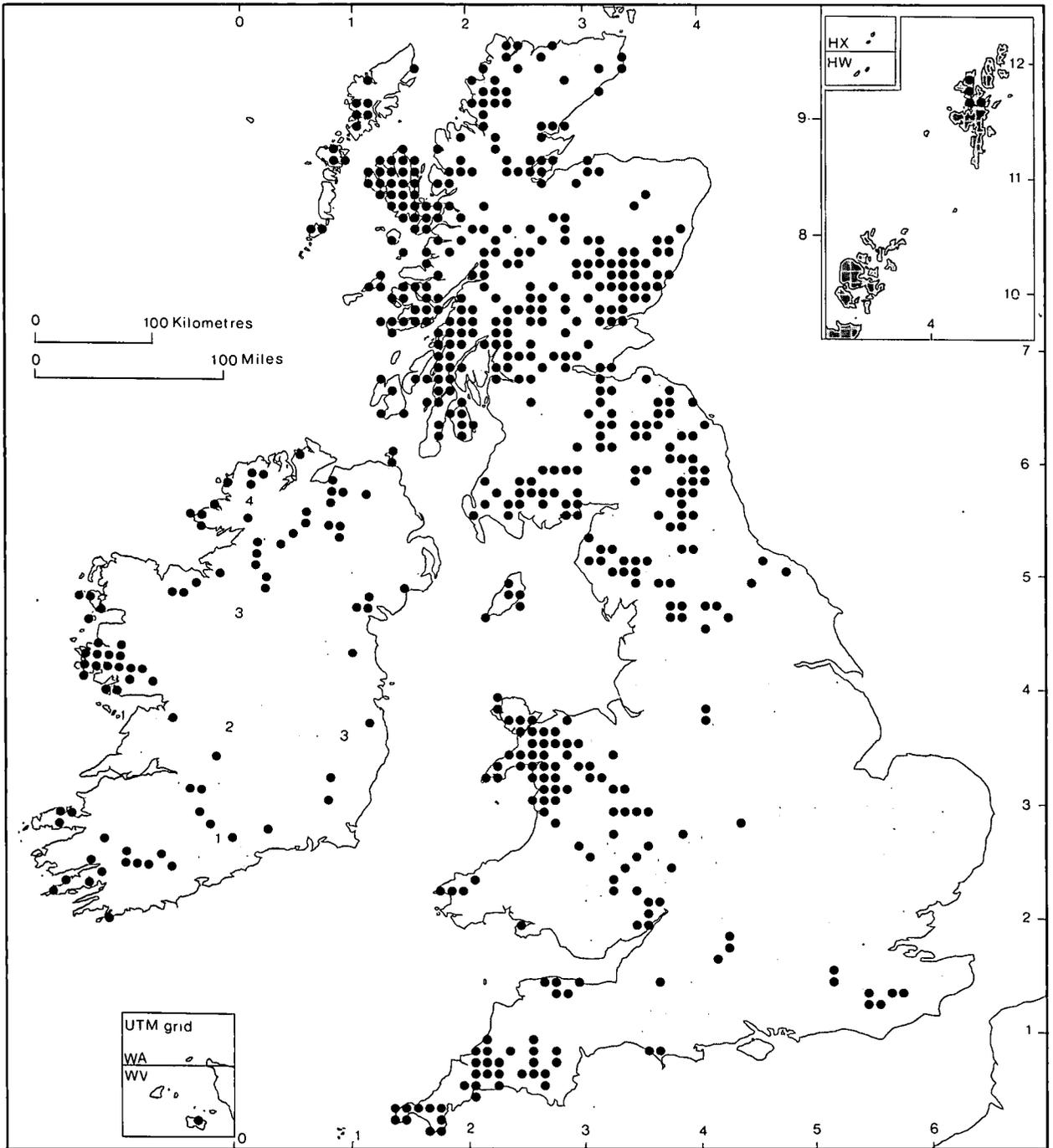
All records ●



28 *Gyrowesia tenuis* (Hedw.) Schimp.

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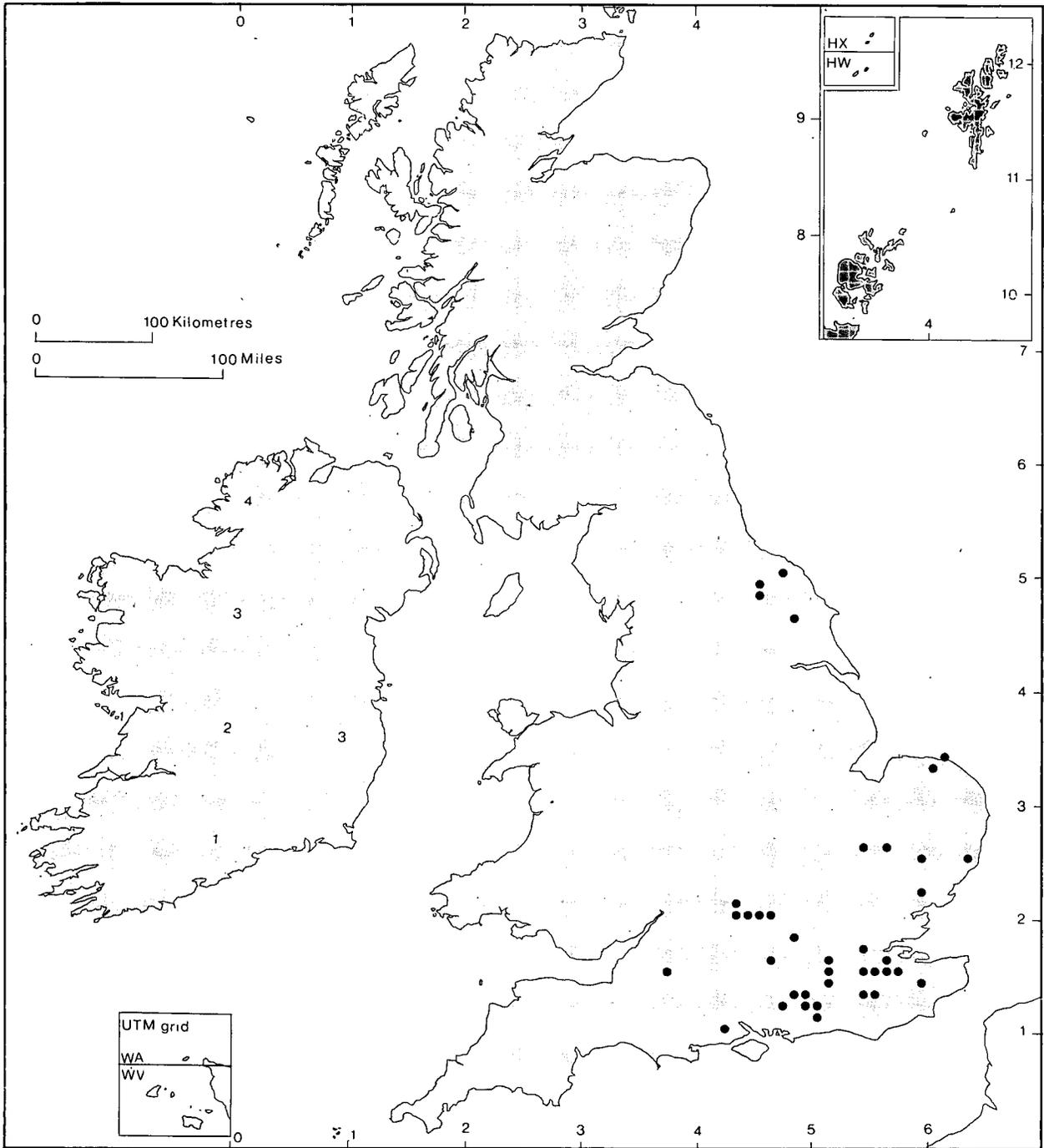
All records ●



29 Hedwigia ciliata . (Hedw.) P. Beauv.

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All records ●

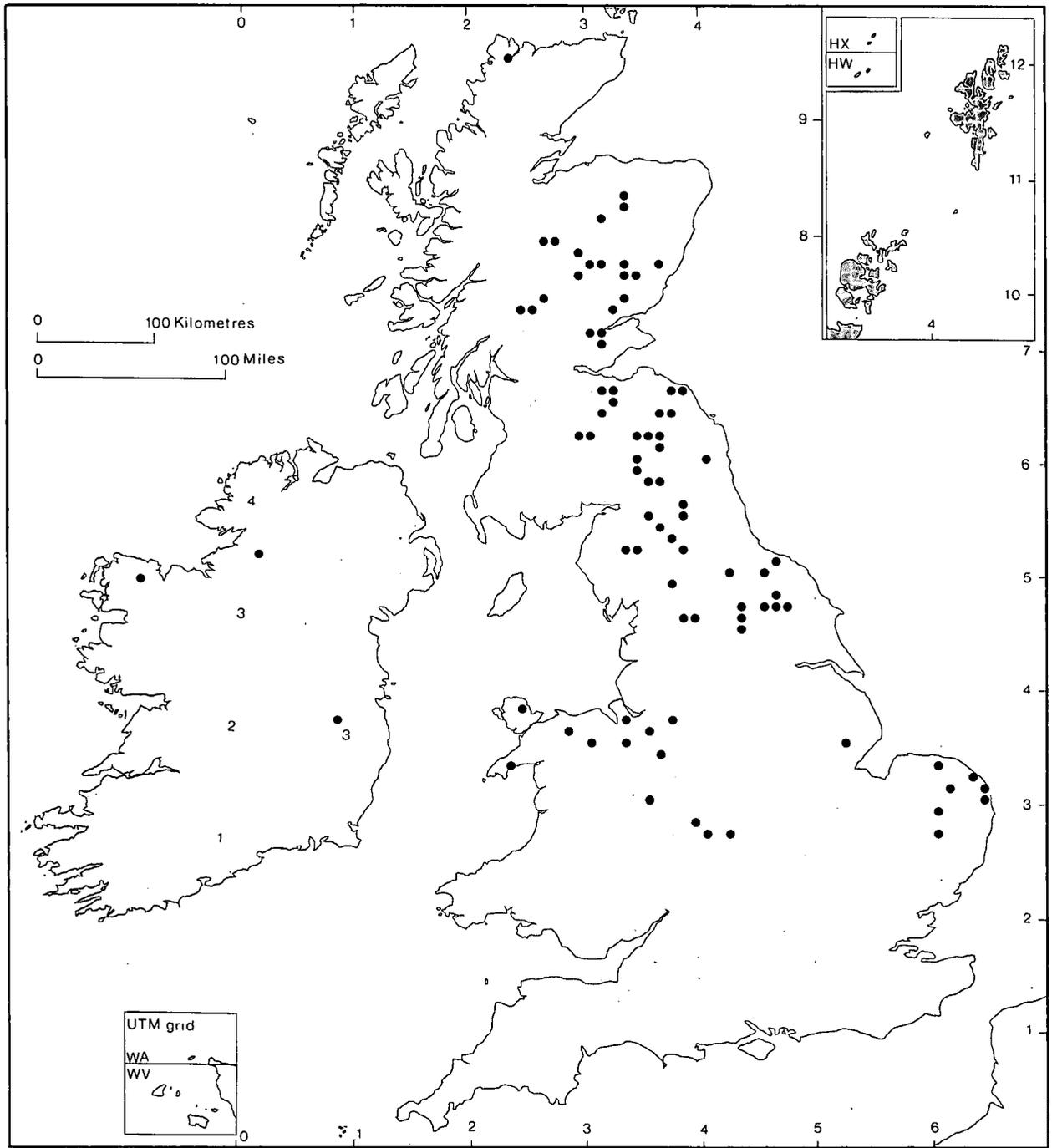


30 Herzogiella seligeri (Brid.) Iwats.

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All records ●

Isopterygium seligeri

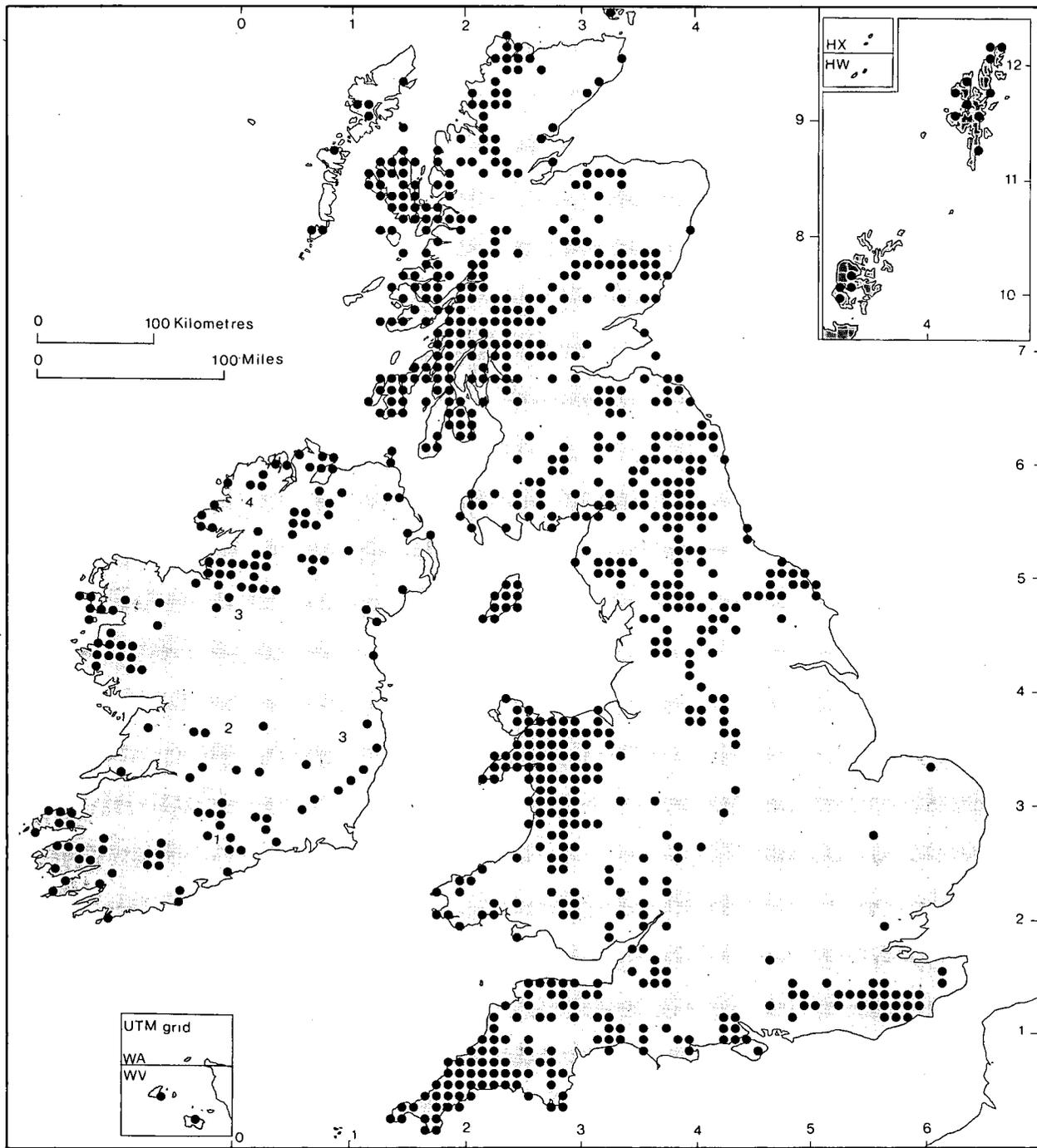


31 Homalothecium nitens (Hedw.) Robins.

Camptothecium nitens

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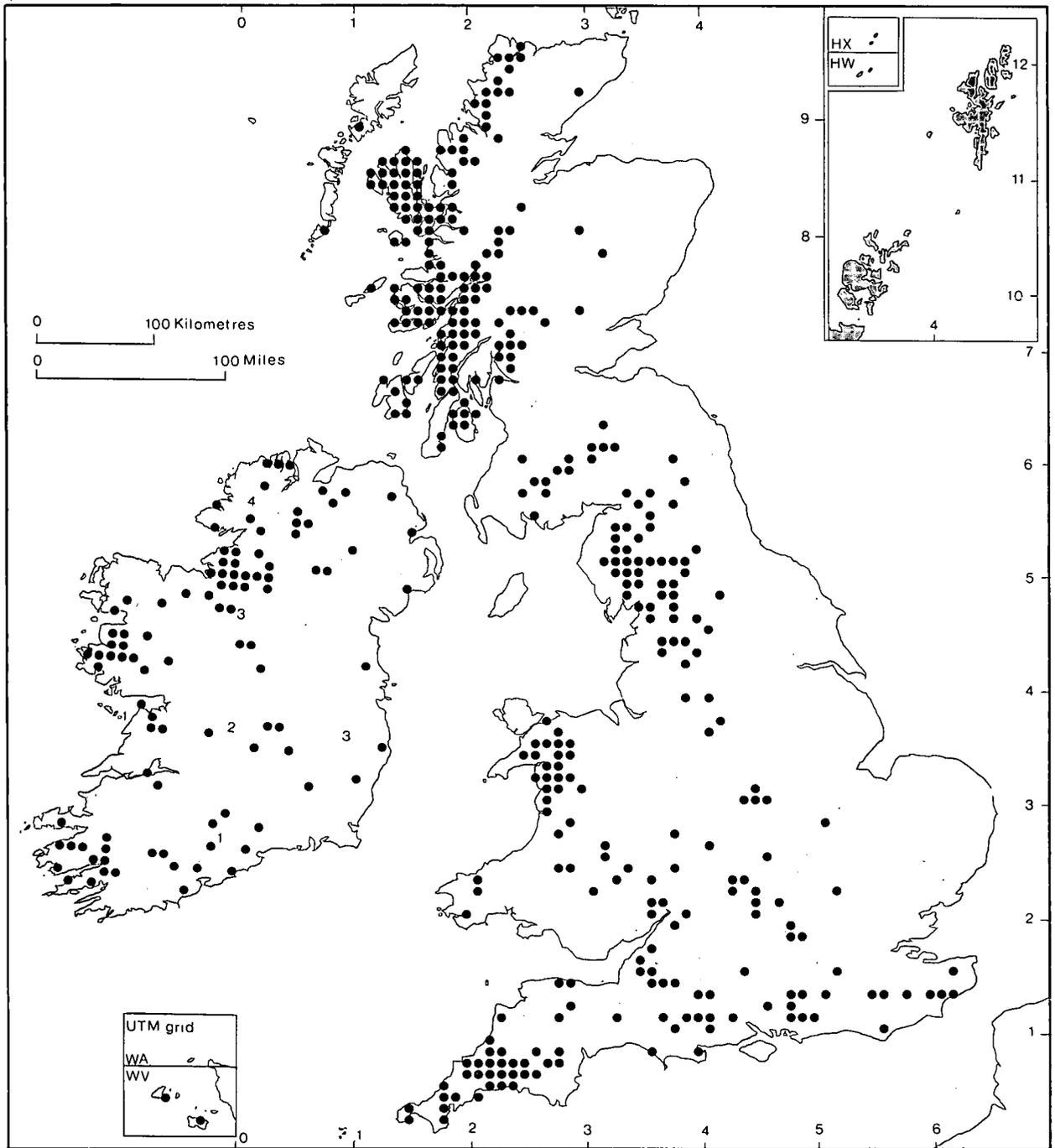
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32 *Hookeria lucens* (Hedw.) Sm.

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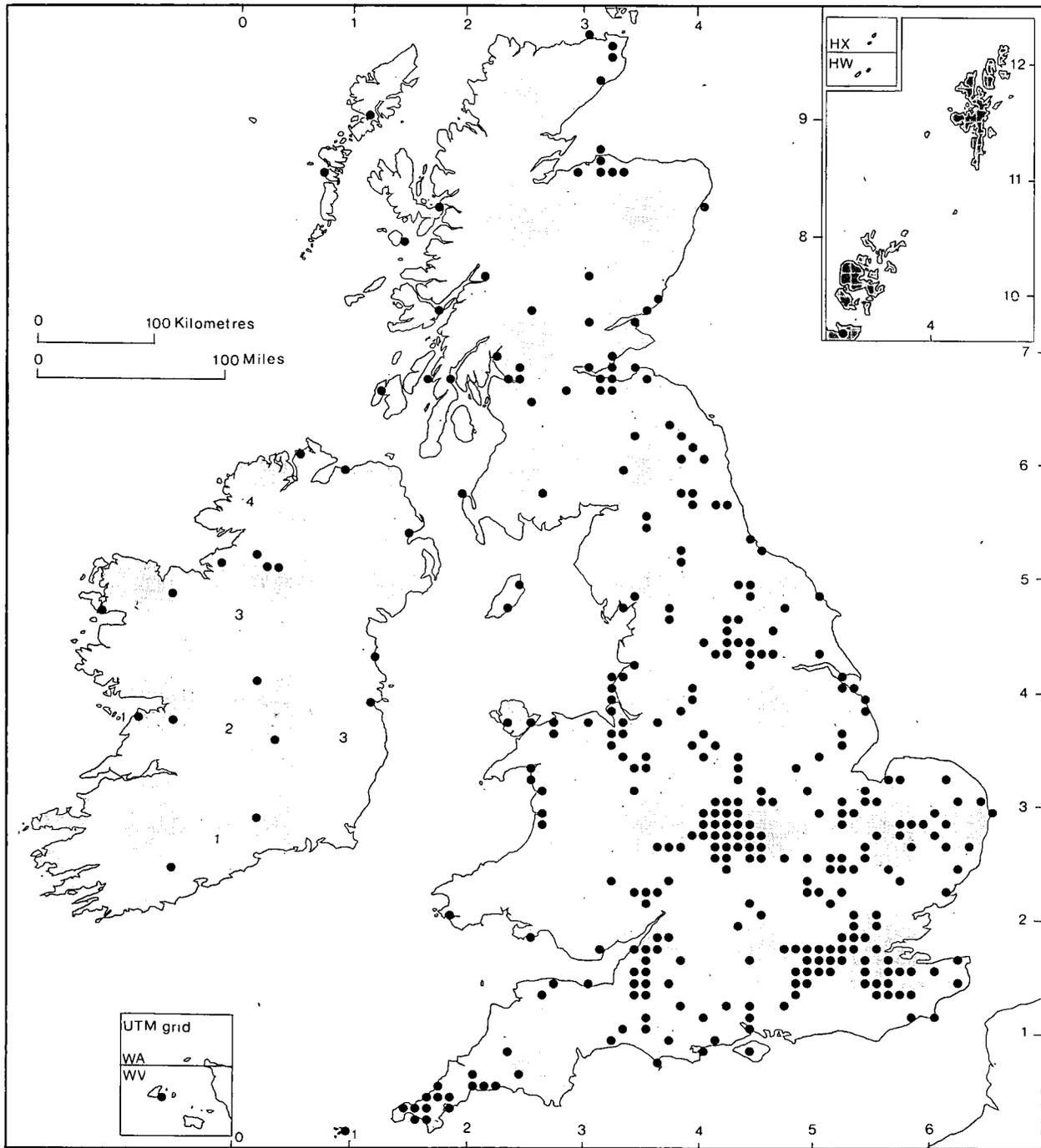
All records ●



33 *Hylocomium brevirostre* (Brid.) Br. Eur.

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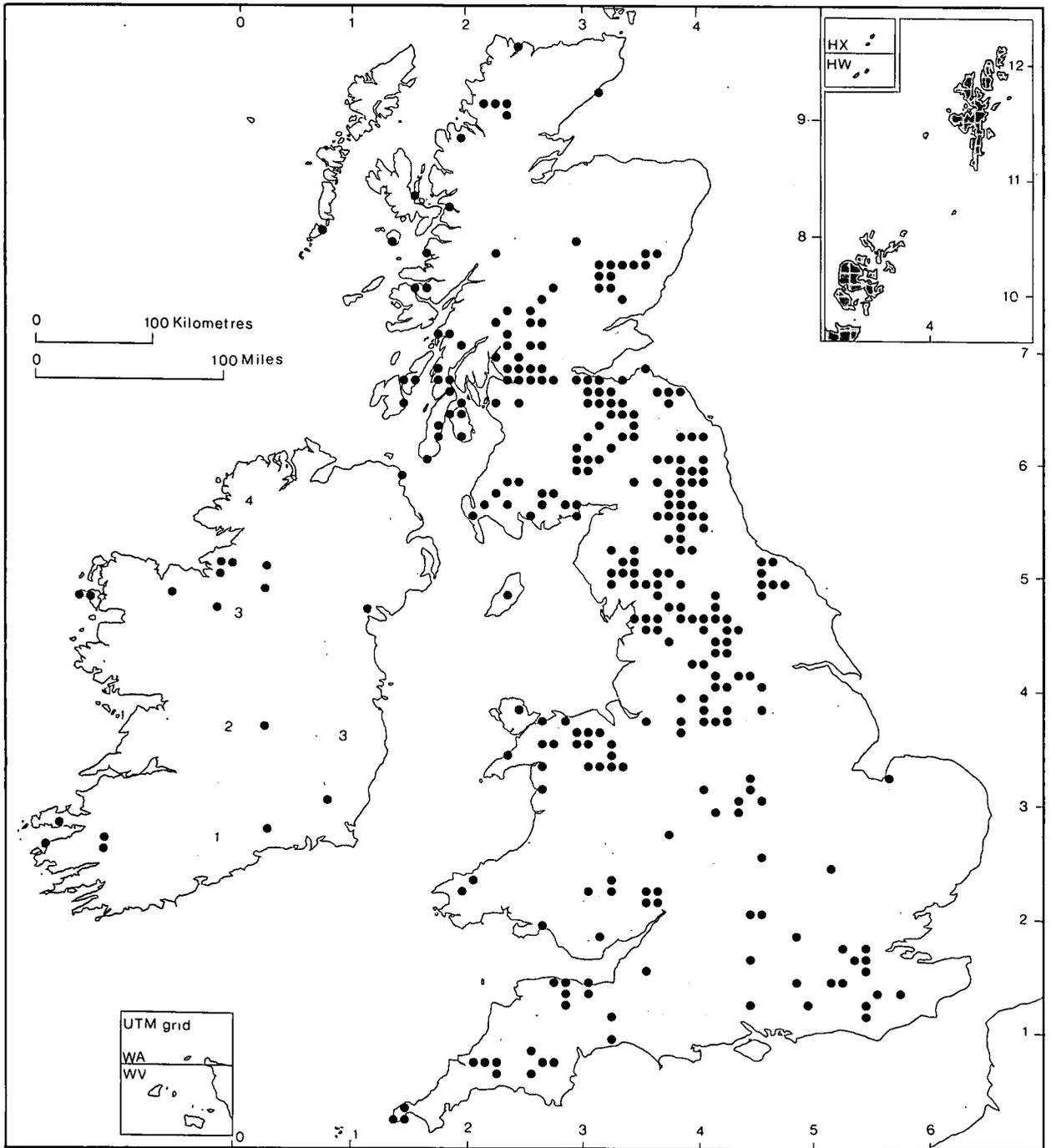
All records ●



34 *Leptobryum pyriforme* (Hedw.) Wils.

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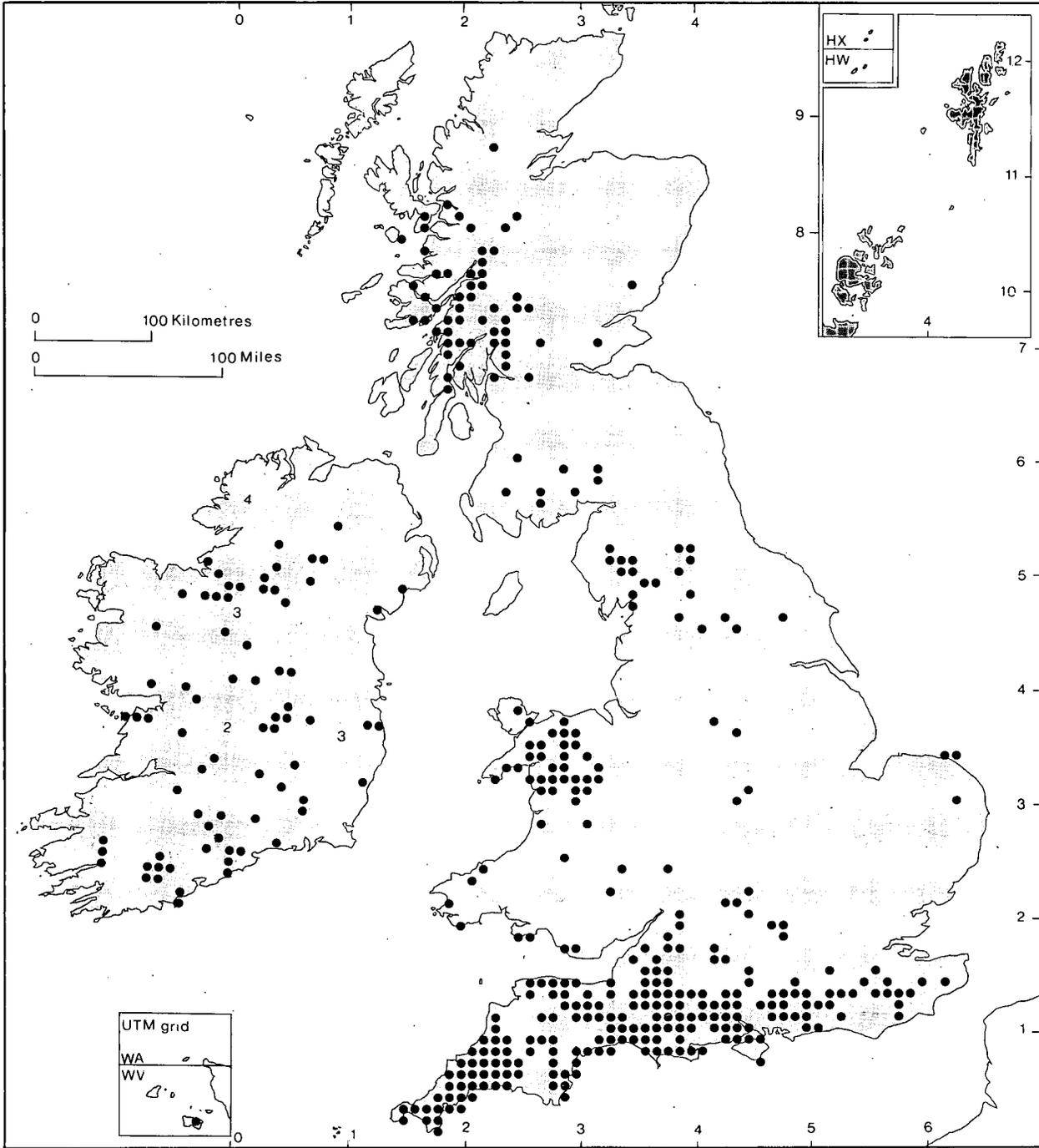
All records ●



35 *Leptodontium flexifolium* (With.) Hampe.

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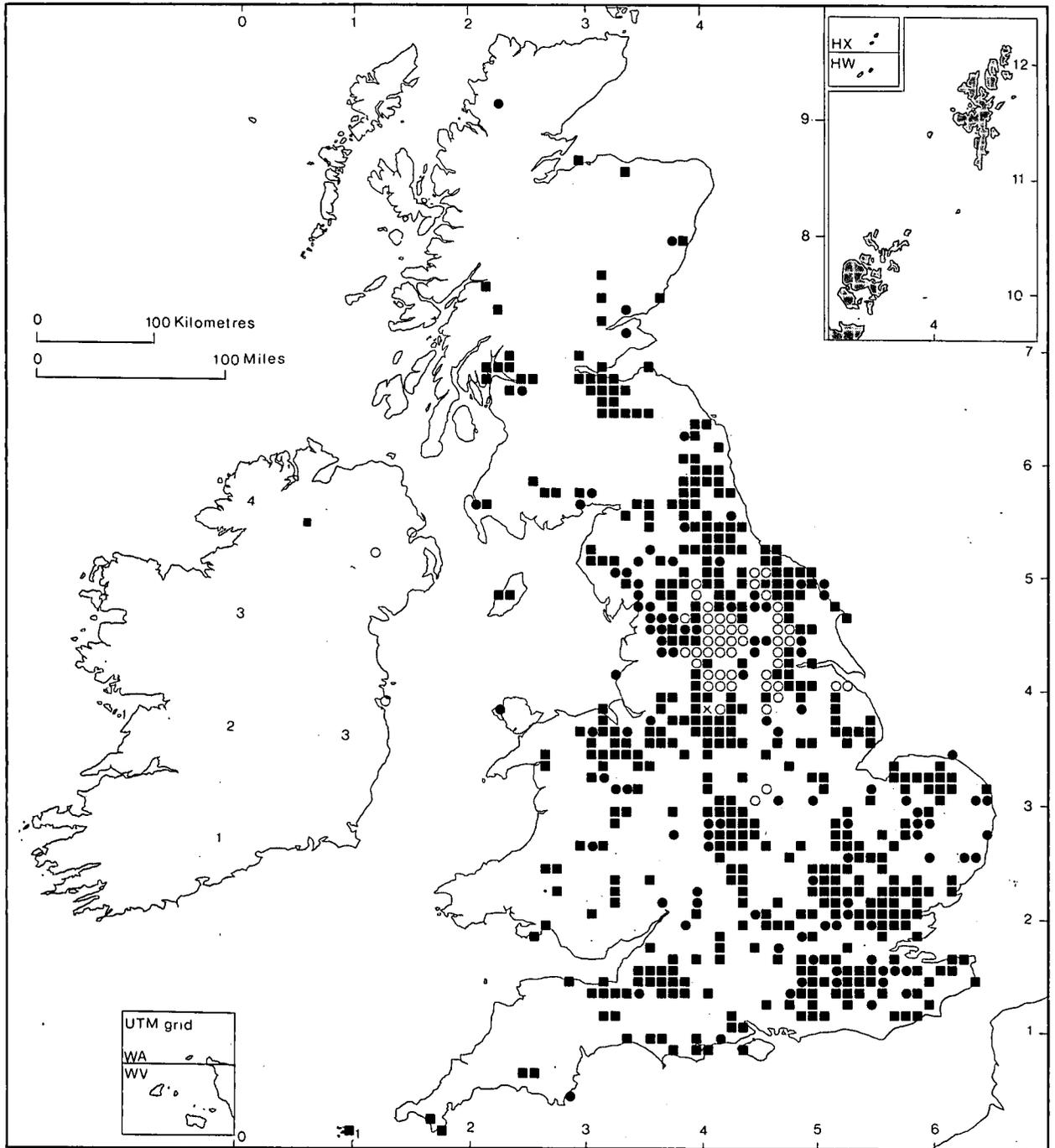
All records ●



36 *Neckera pumila*

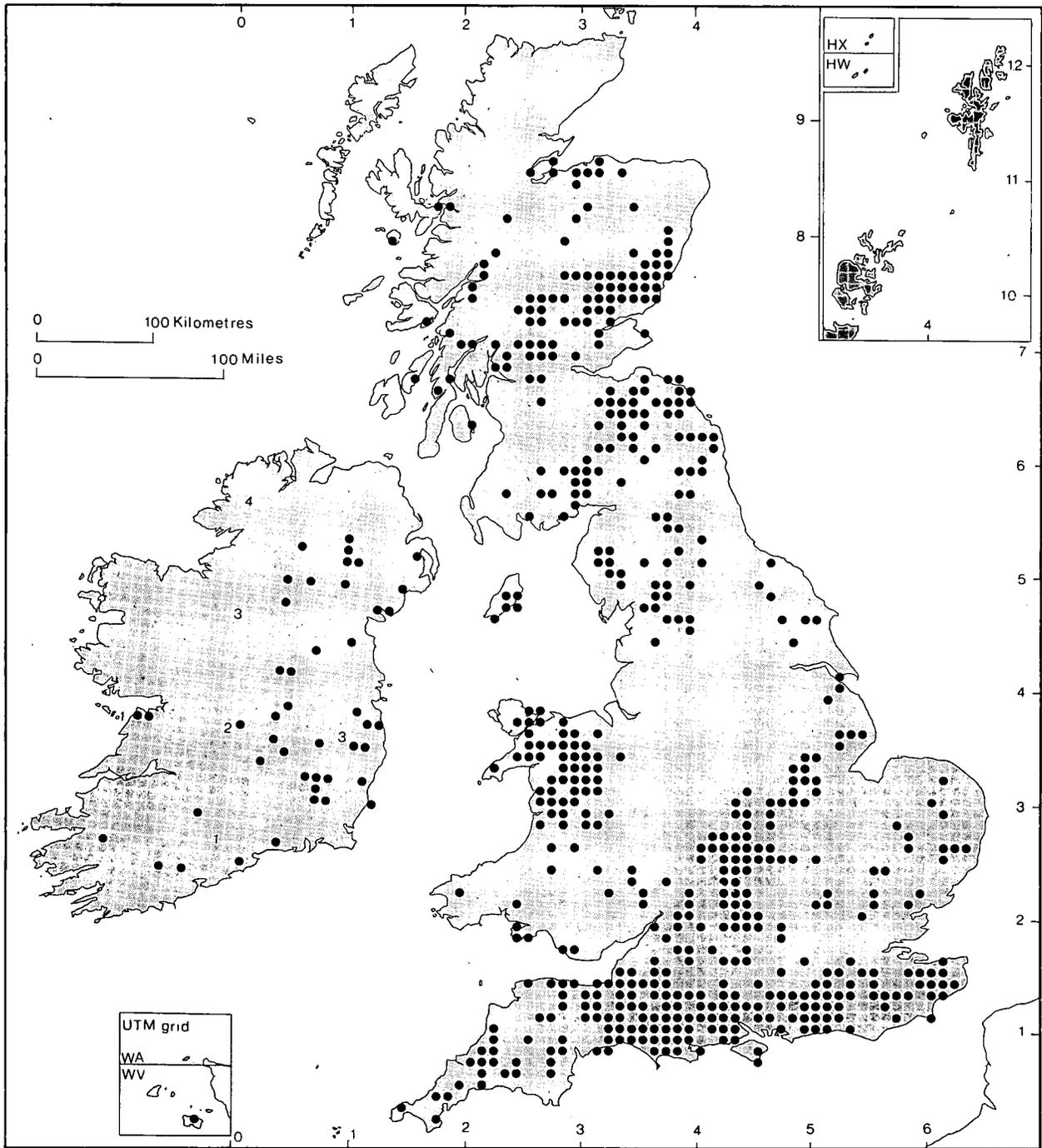
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All records ●



37 Orthodontium lineare Schwaegr.

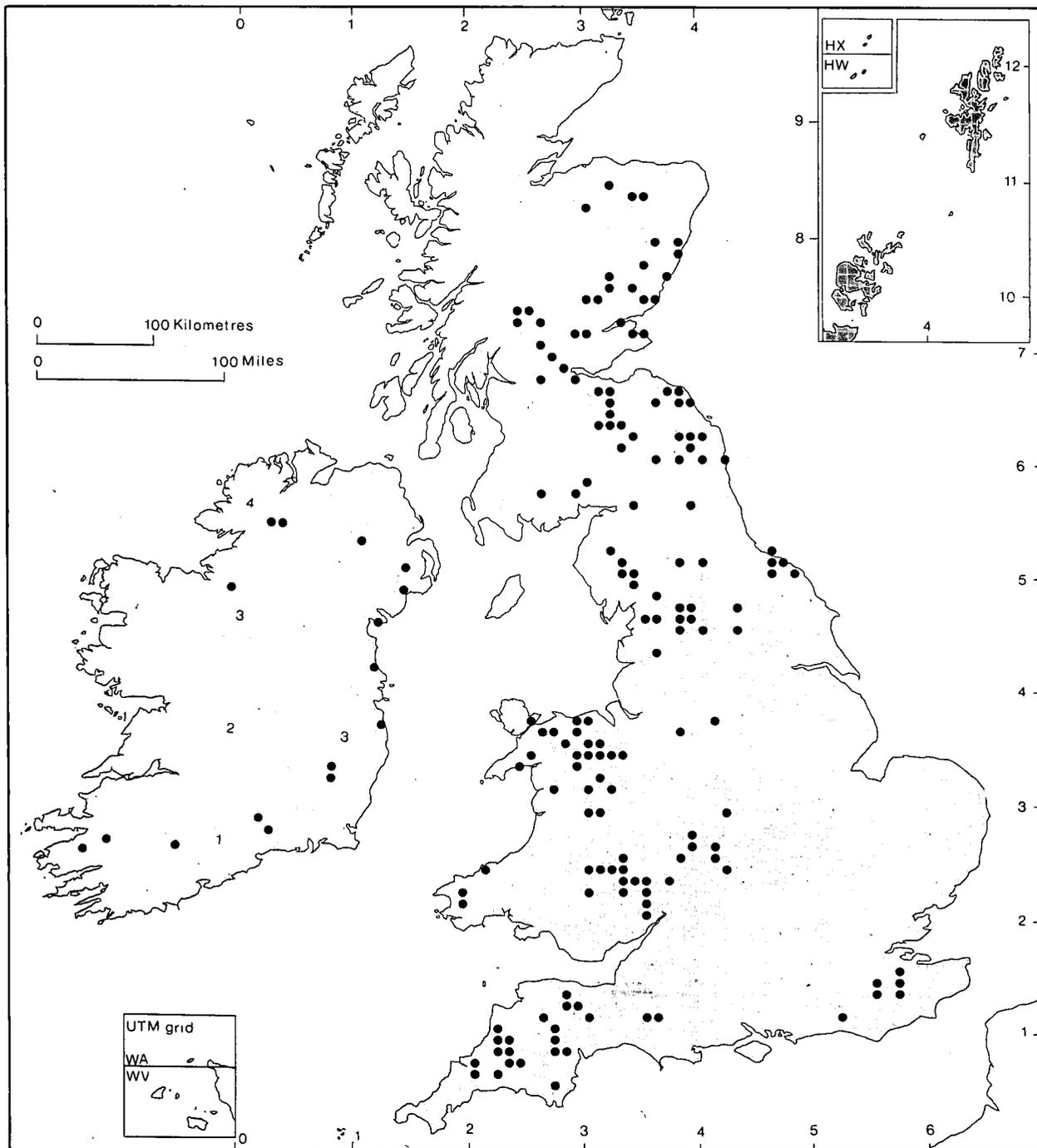
- First record, 1920 x
- 1921 – 1940 o
- 1941 – 1960 ●
- 1961 onwards ■



38 *Orthotrichum lyellii* Hook & Tayl.

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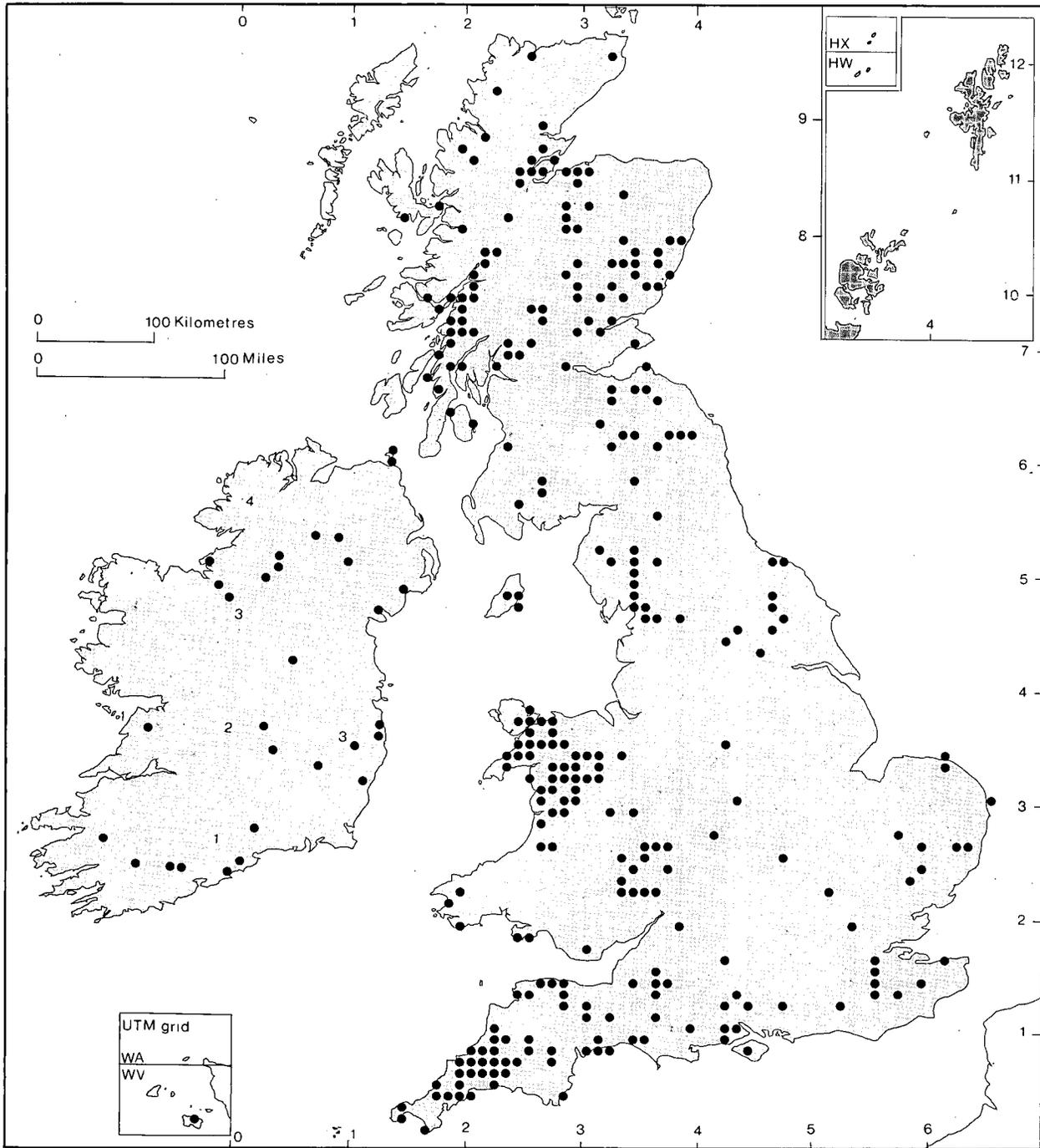
All records ●



39 Orthotrichum rivulare Turn.

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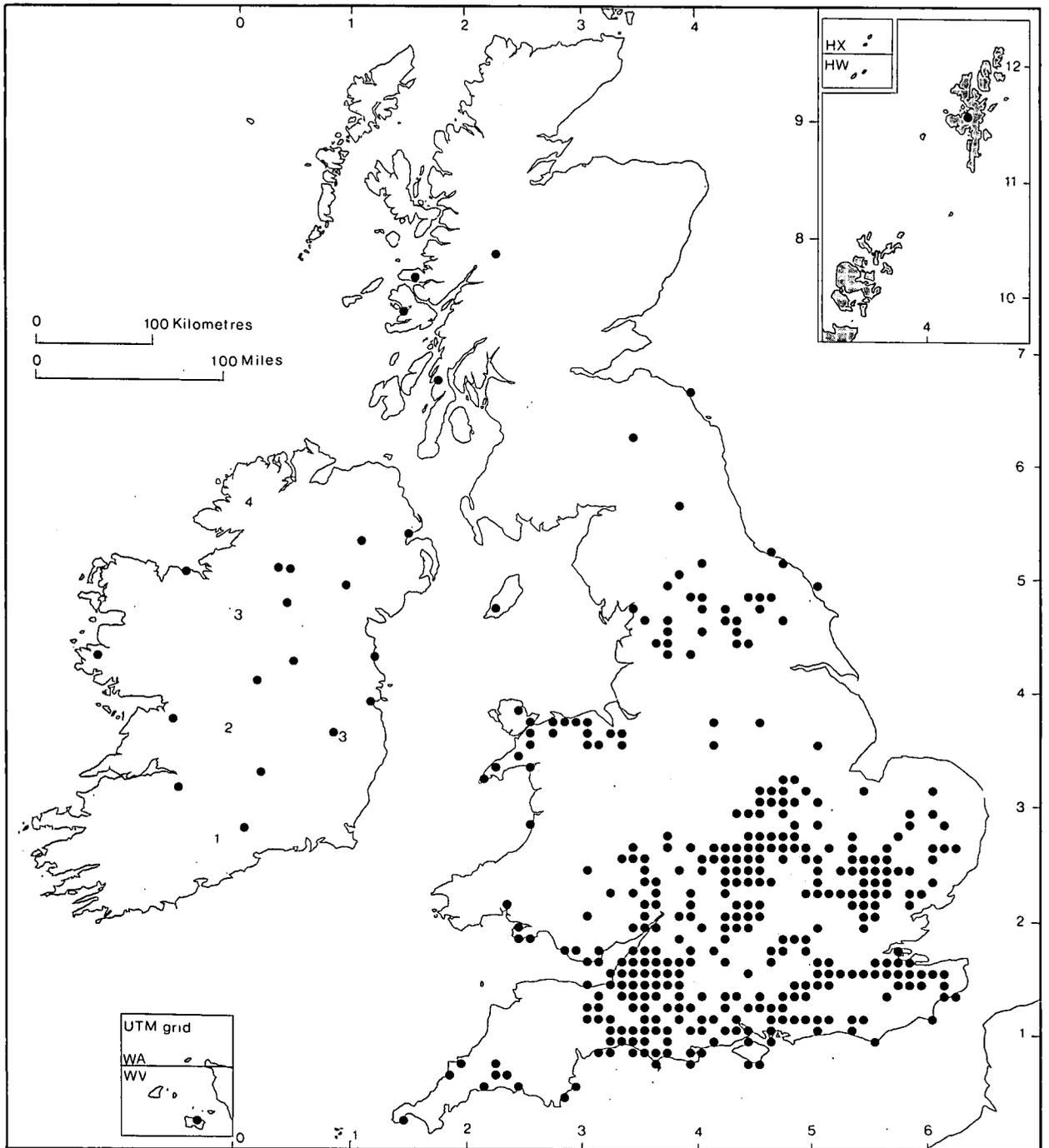
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40 Orthotrichum striatum Hedw.

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All records ●

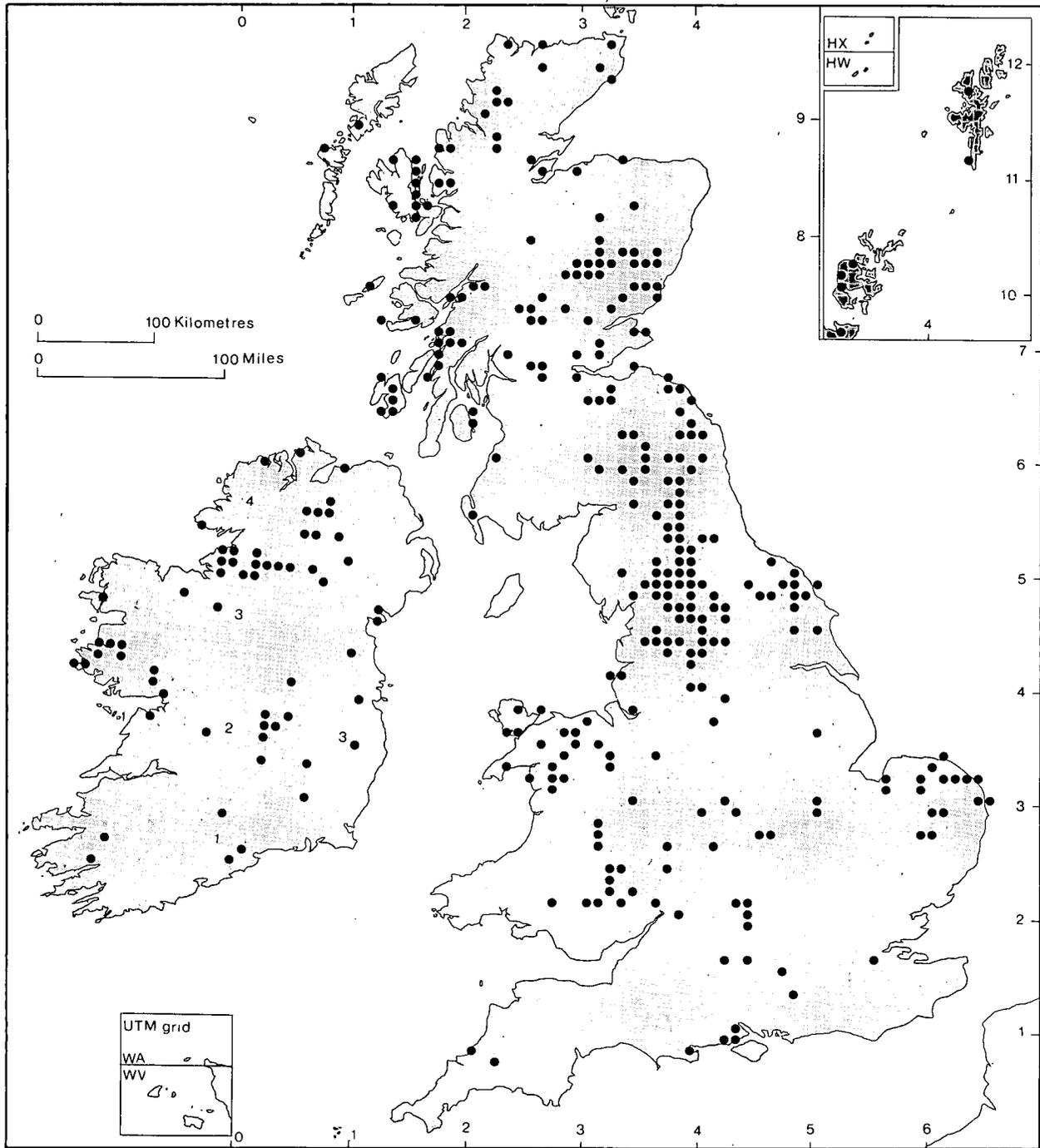


41 Oxystegus sinuosus (Mitt.) Hilp.

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All records ●

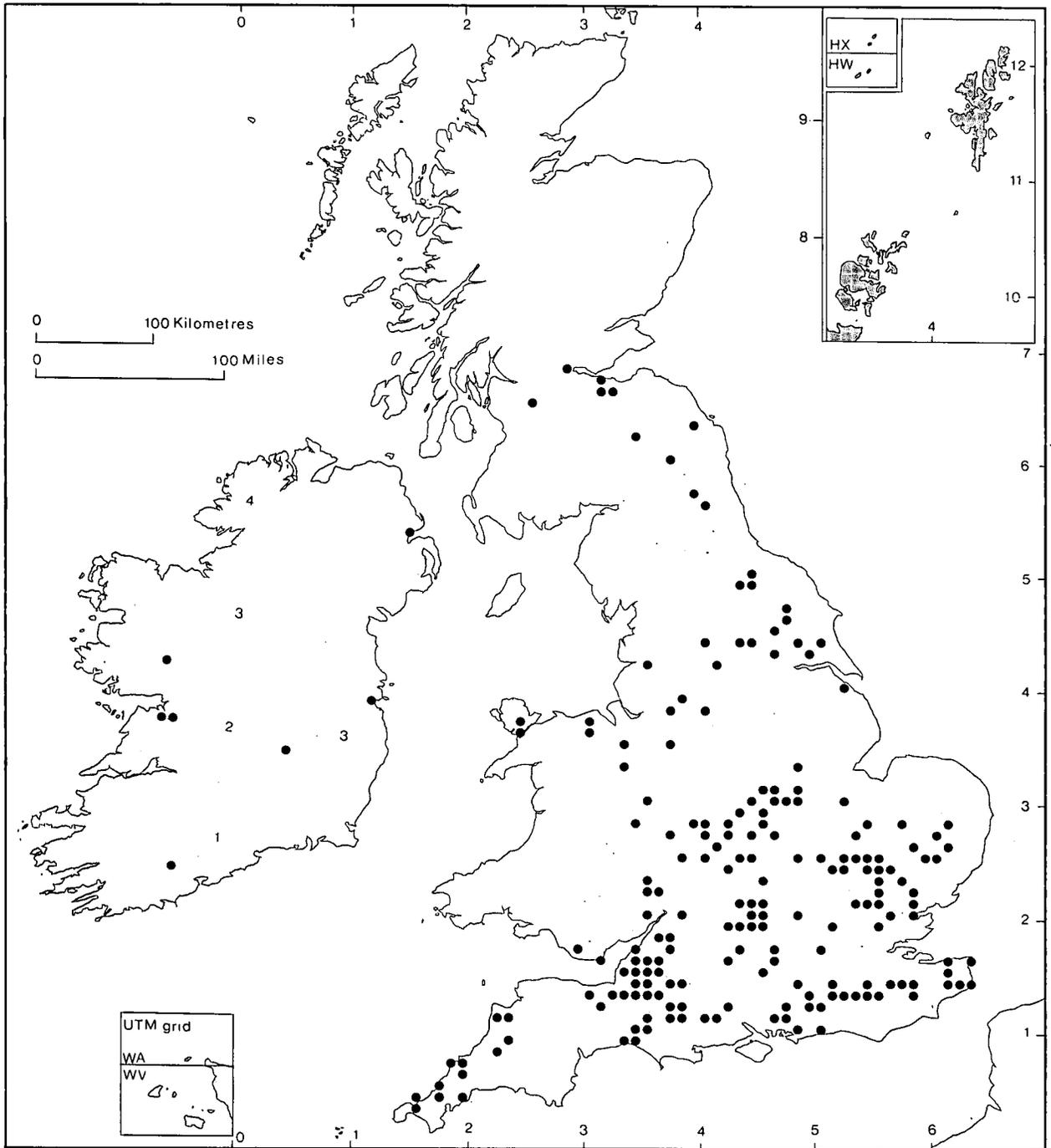
Trichostomum sinuosum



42 *Philonotis calcarea* (Br. Eur.) Schimp.

Provisional January 1978

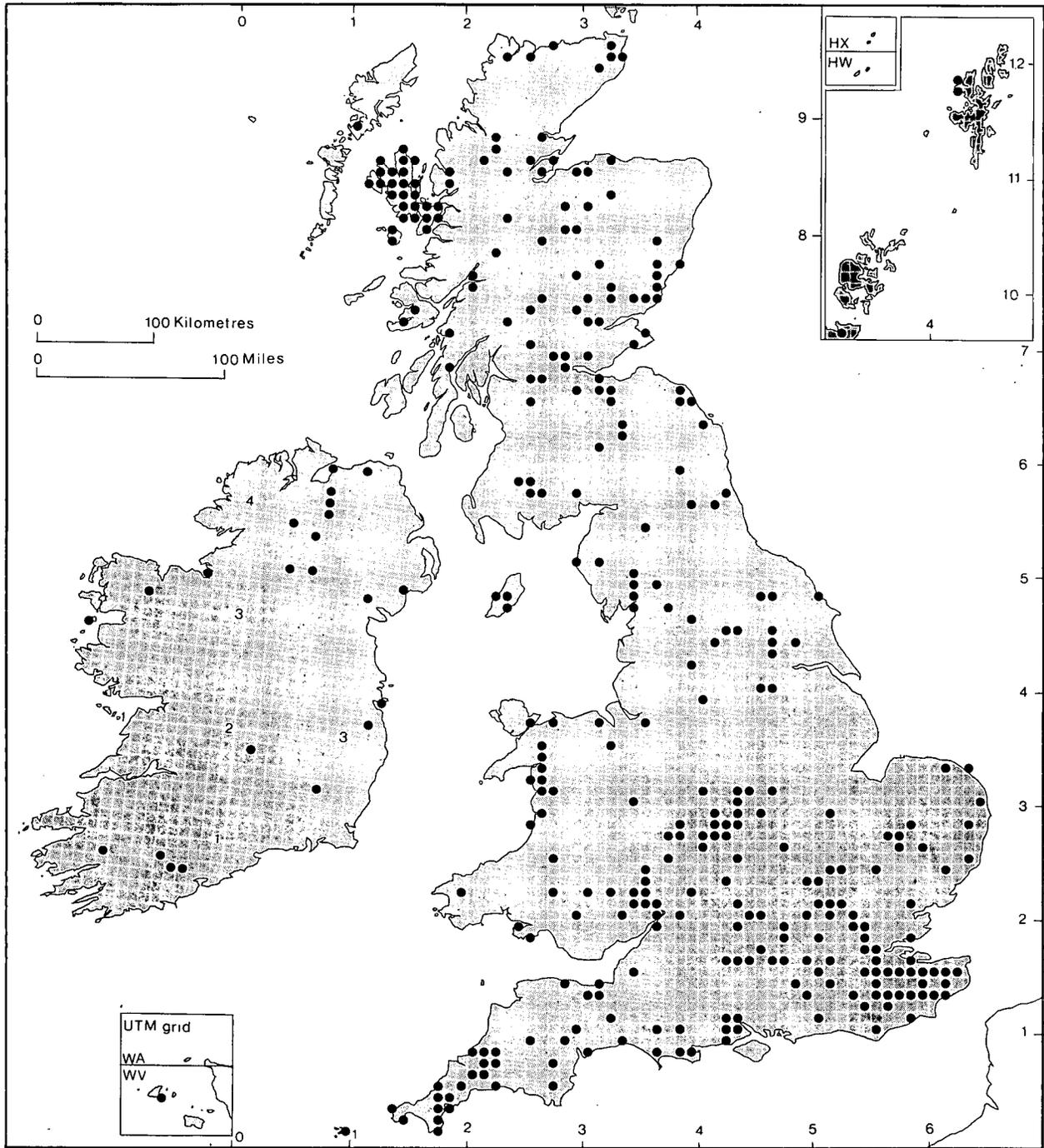
All records ●



43 Physcomitrella patens (Hedw.) Br. Eur.

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All records ●

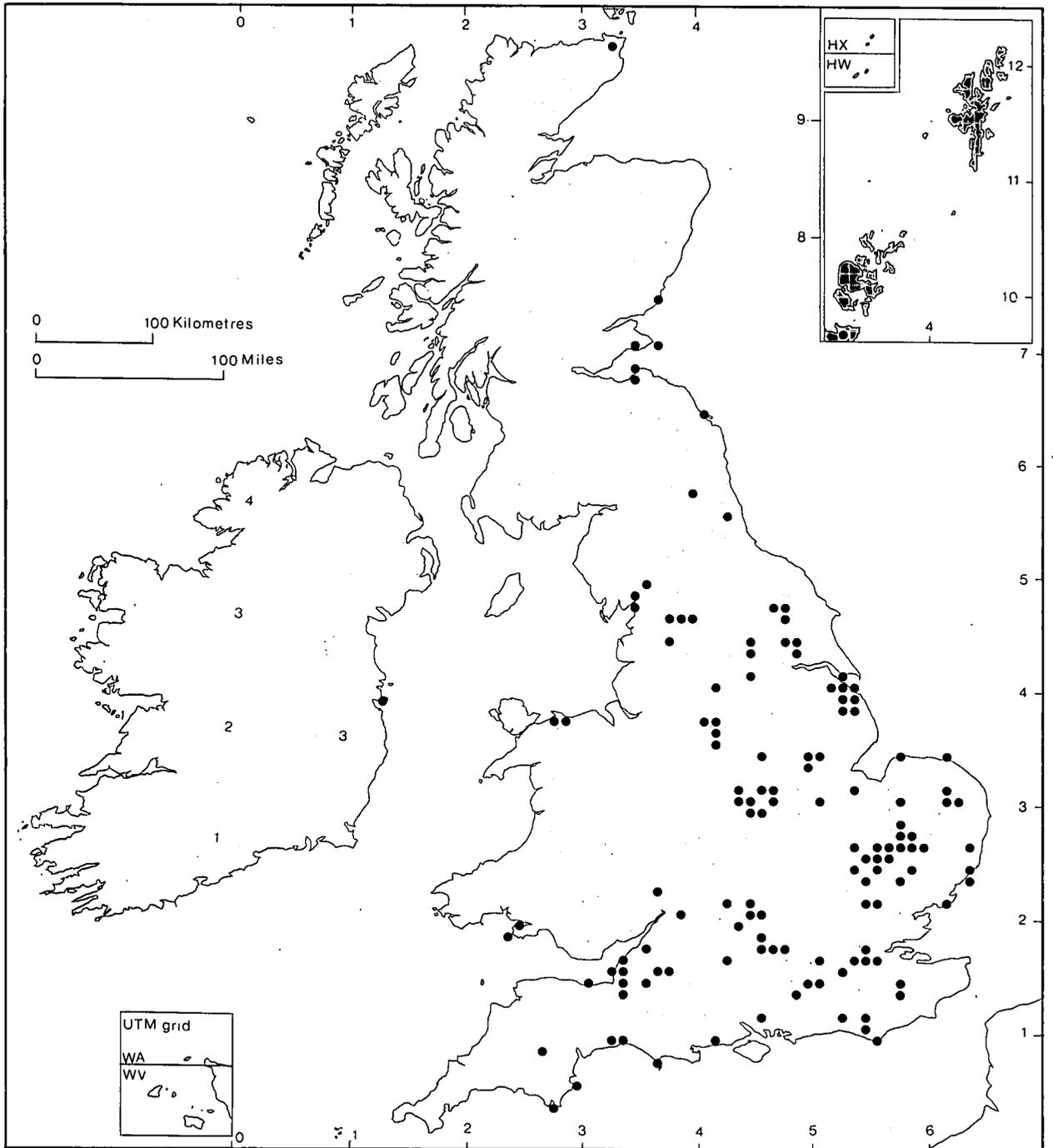


44 Pogonatum nanum (Hedw.) P. Beauv.

Polytrichum nanum

Provisional January 1978

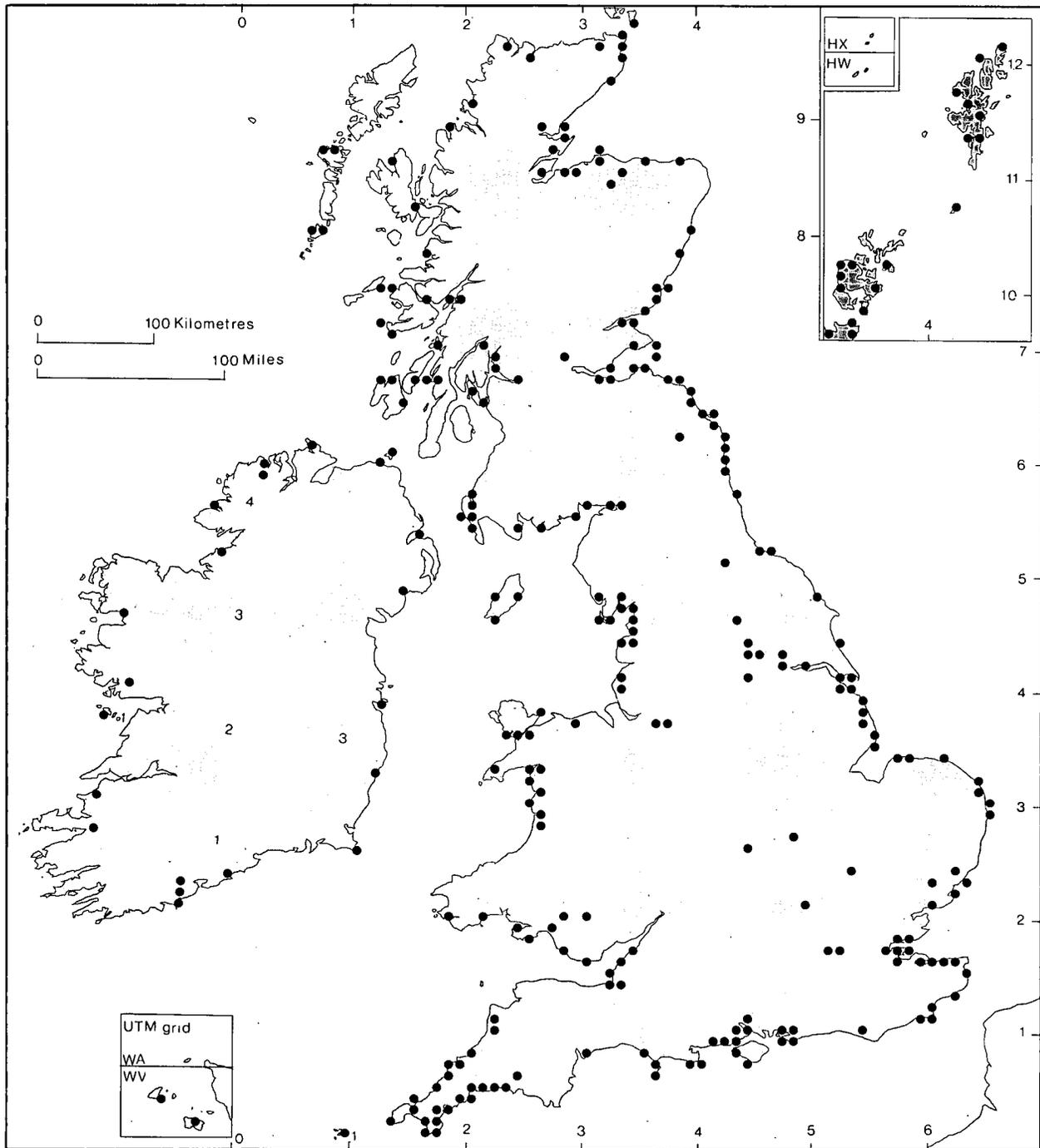
All records ●



45 Pottia bryoides (Dicks.) Mitt.

Provisional January 1978

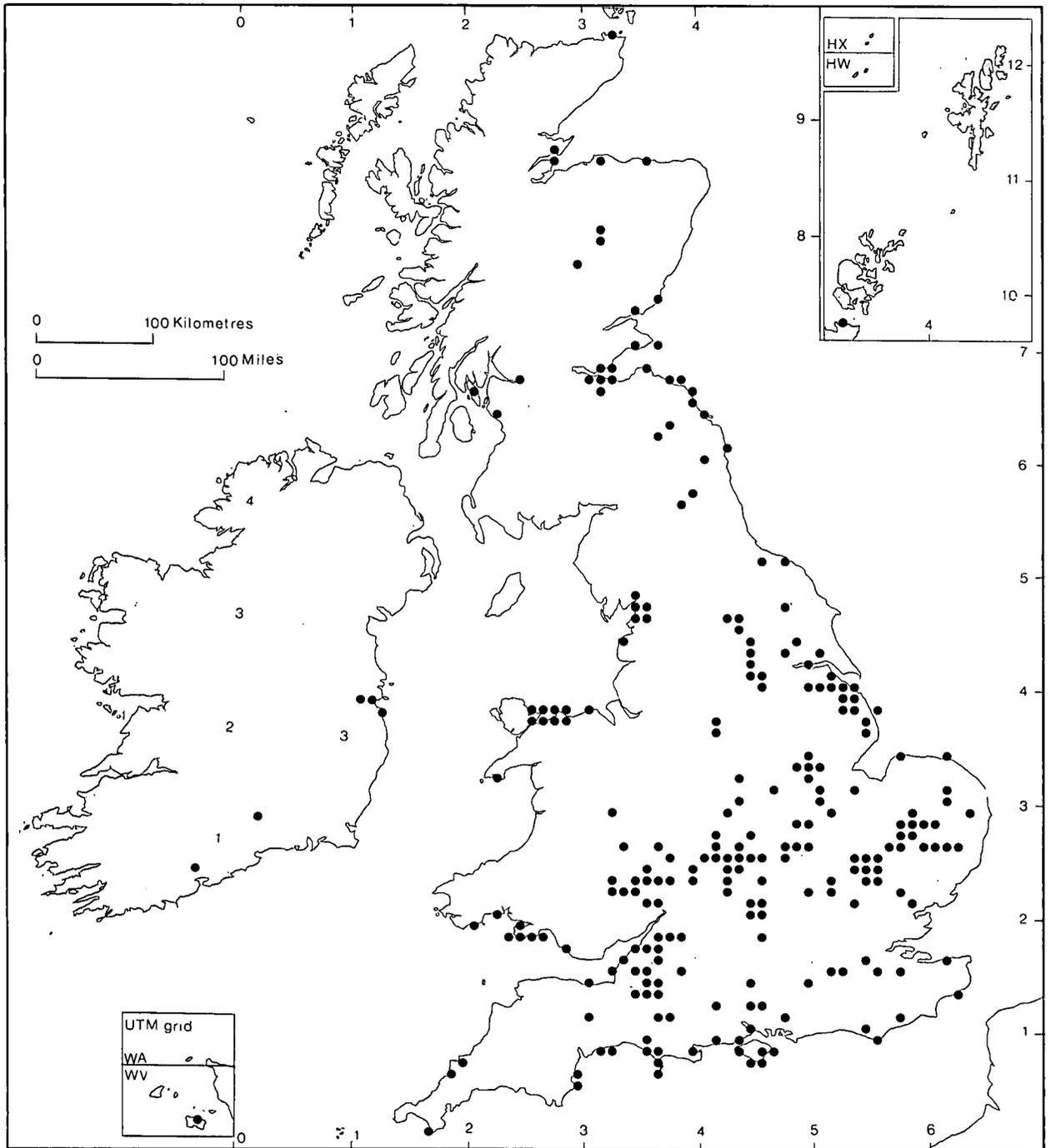
All records ●



46 *Pottia heimii* (Hedw.) Furnr.

Provisional January 1978

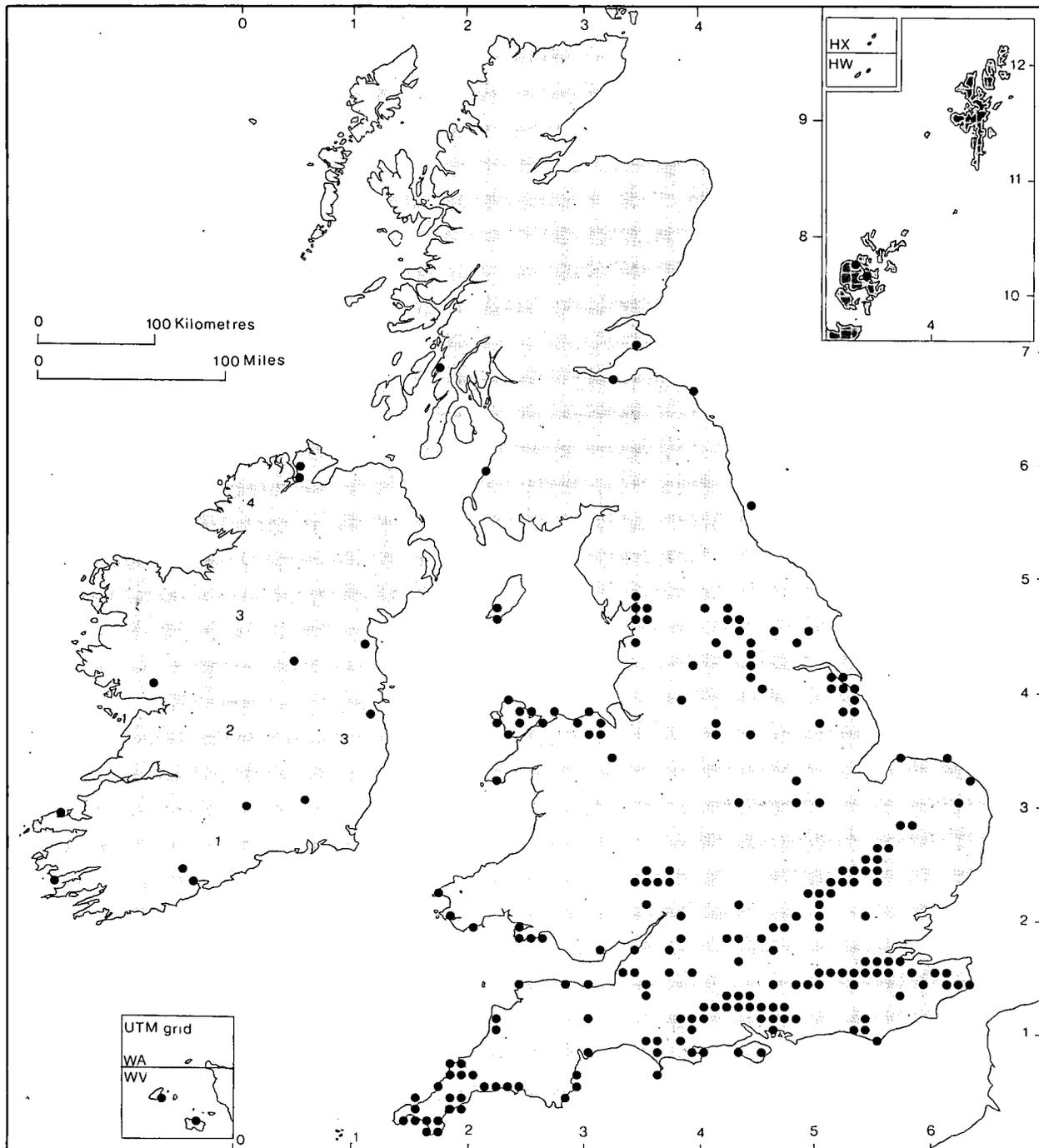
All records ●



47 *Pottia lanceolata* (Hedw.) C. Müll.

Provisional January 1978

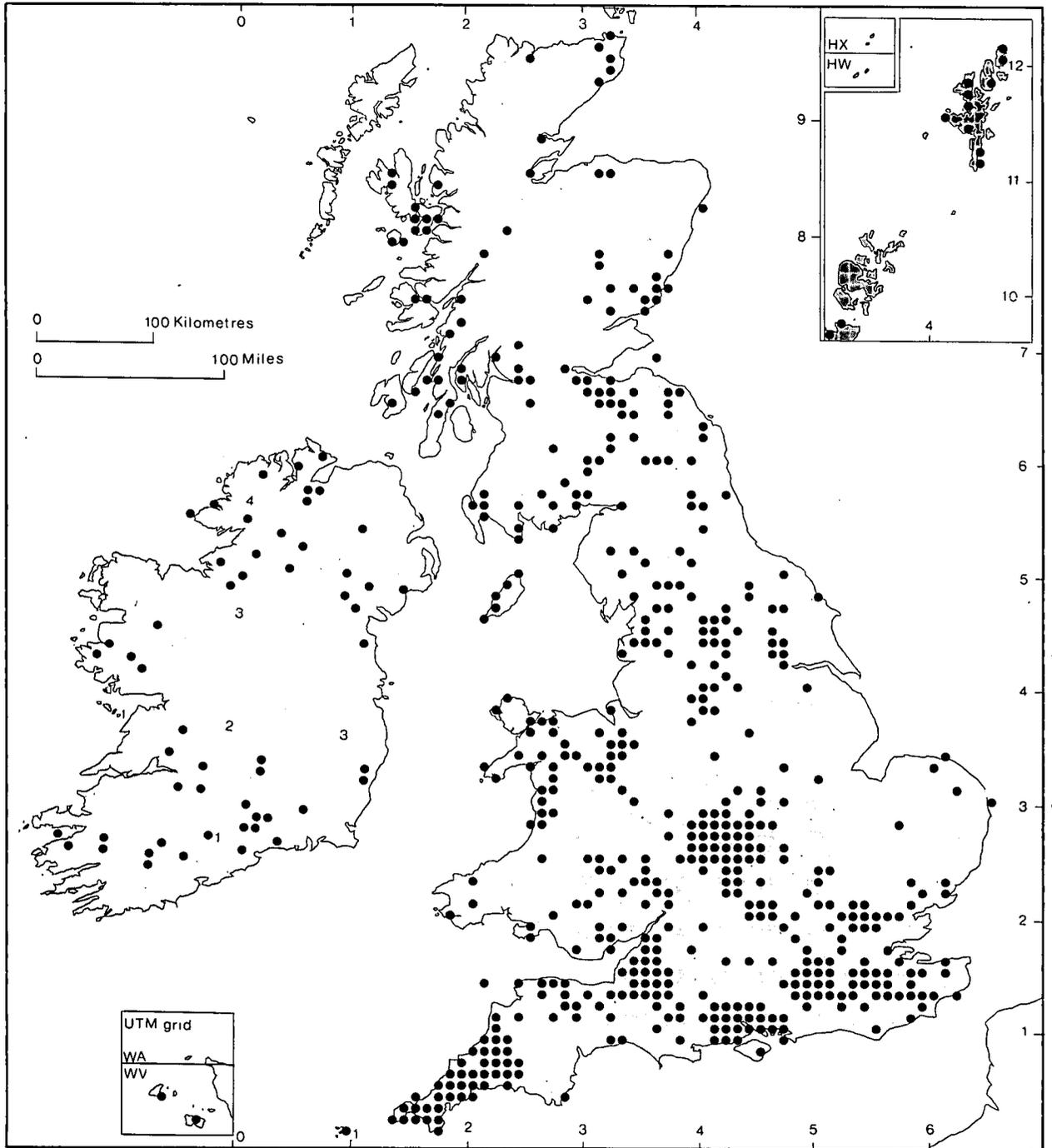
All records ●



48 *Pottia recta* (With.) Mitt.

Provisional January 1978

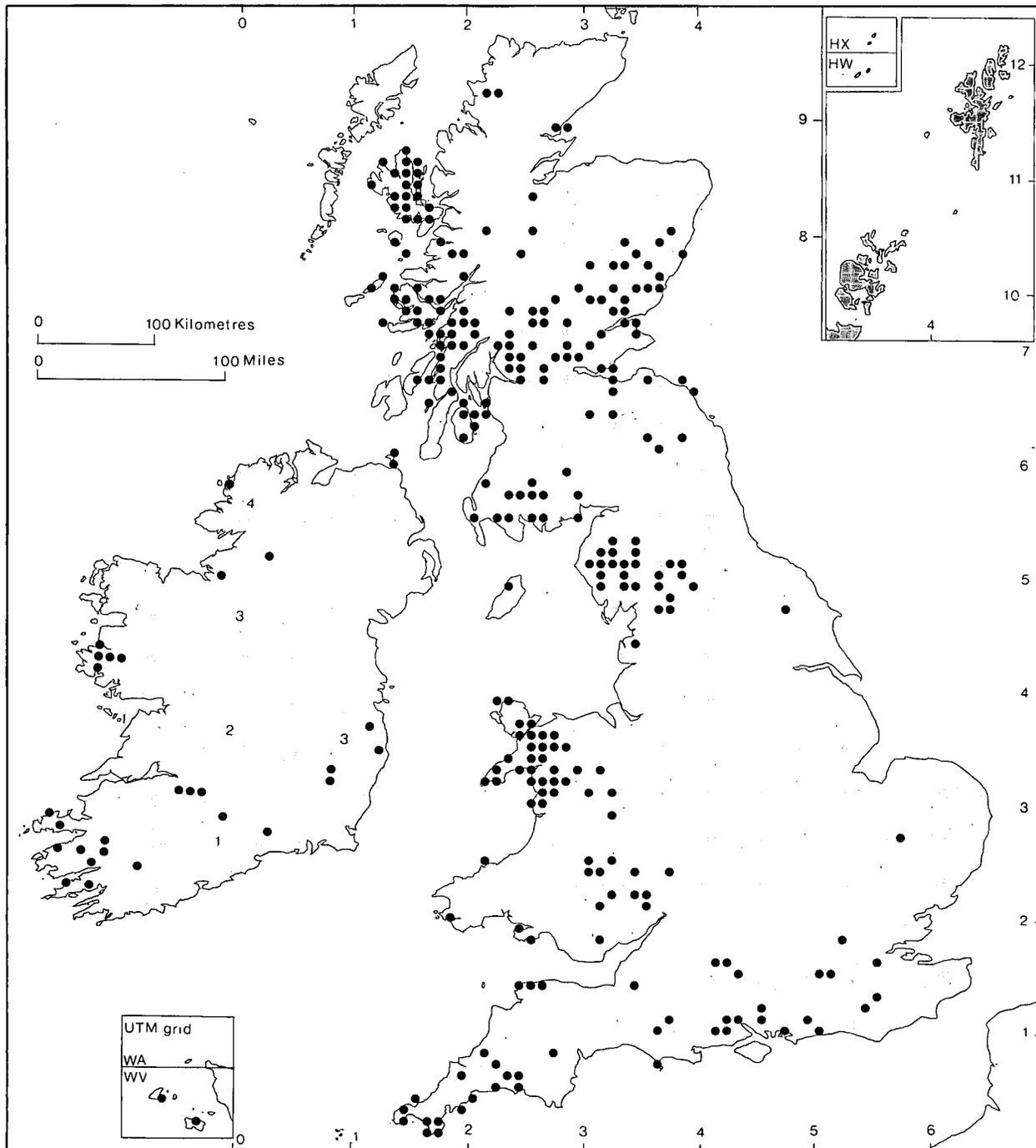
All records ●



49 Pseudephemerum nitidum (Hedw.) Reim.

Provisional January 1978

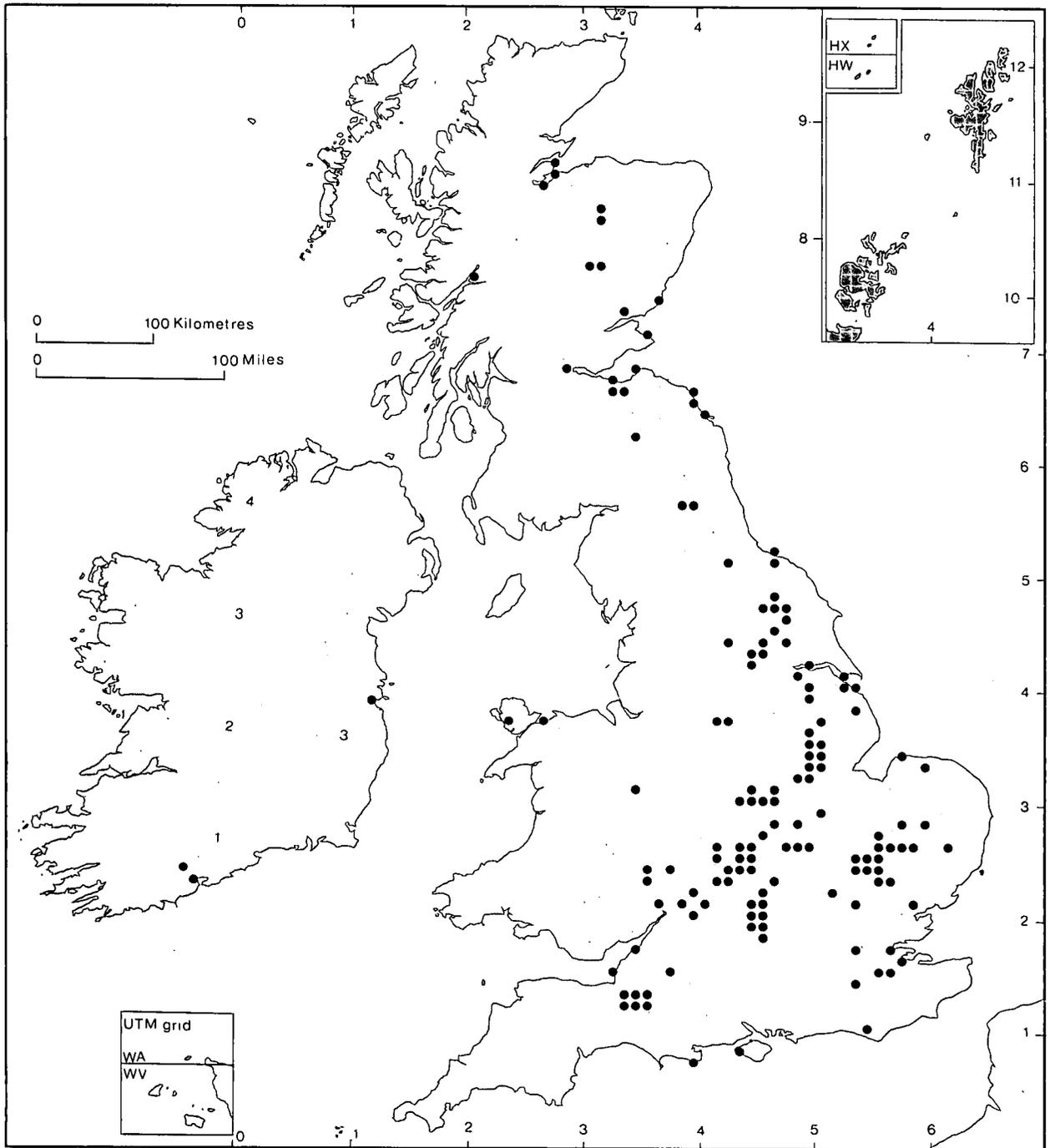
All records ●



50 *Pterogonium gracile* (Hedw.) Sm.

Provisional January 1978

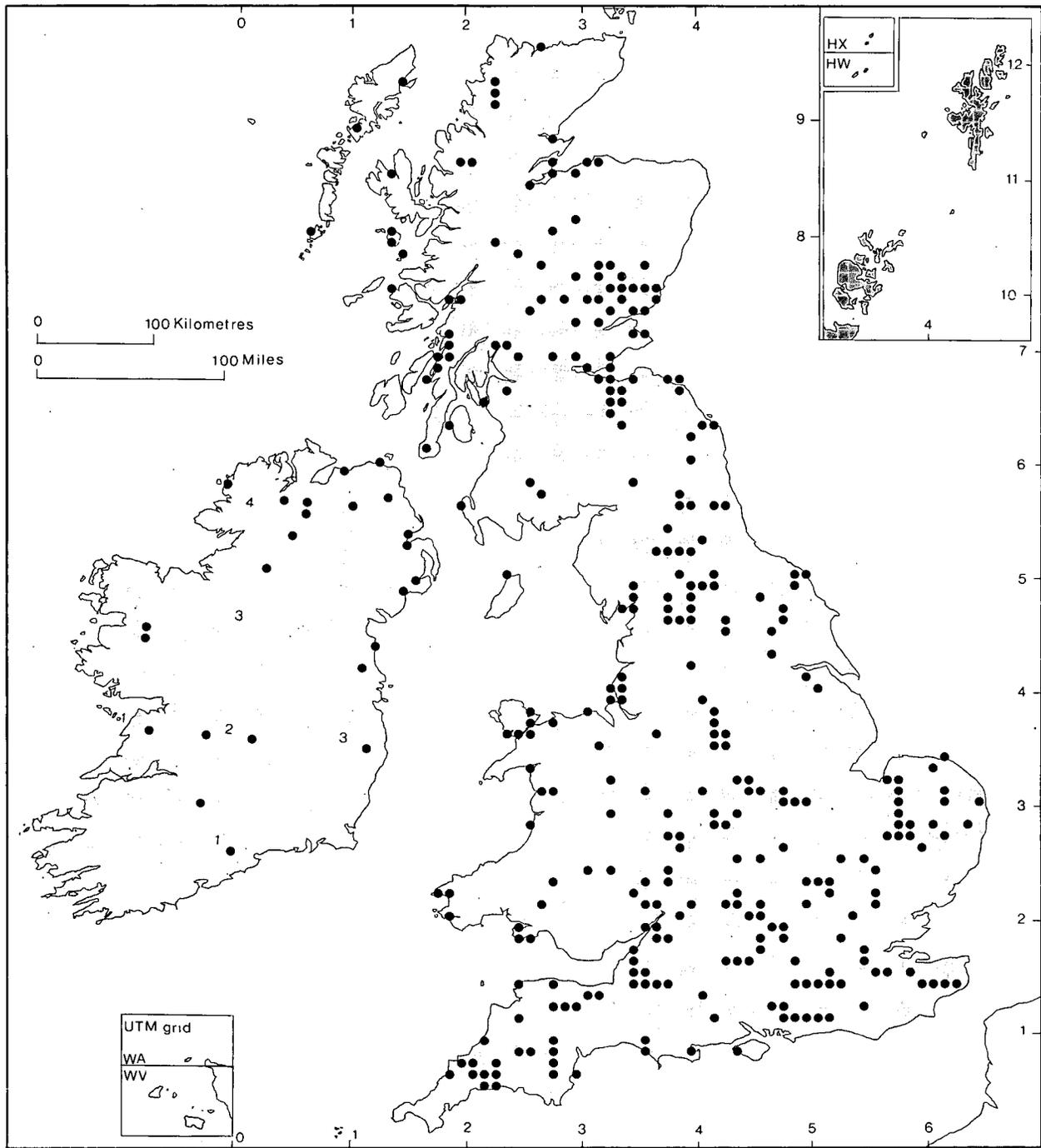
All records ●



51 Pterygoneurum ovatum (Hedw.) Dix.

Provisional January 1978

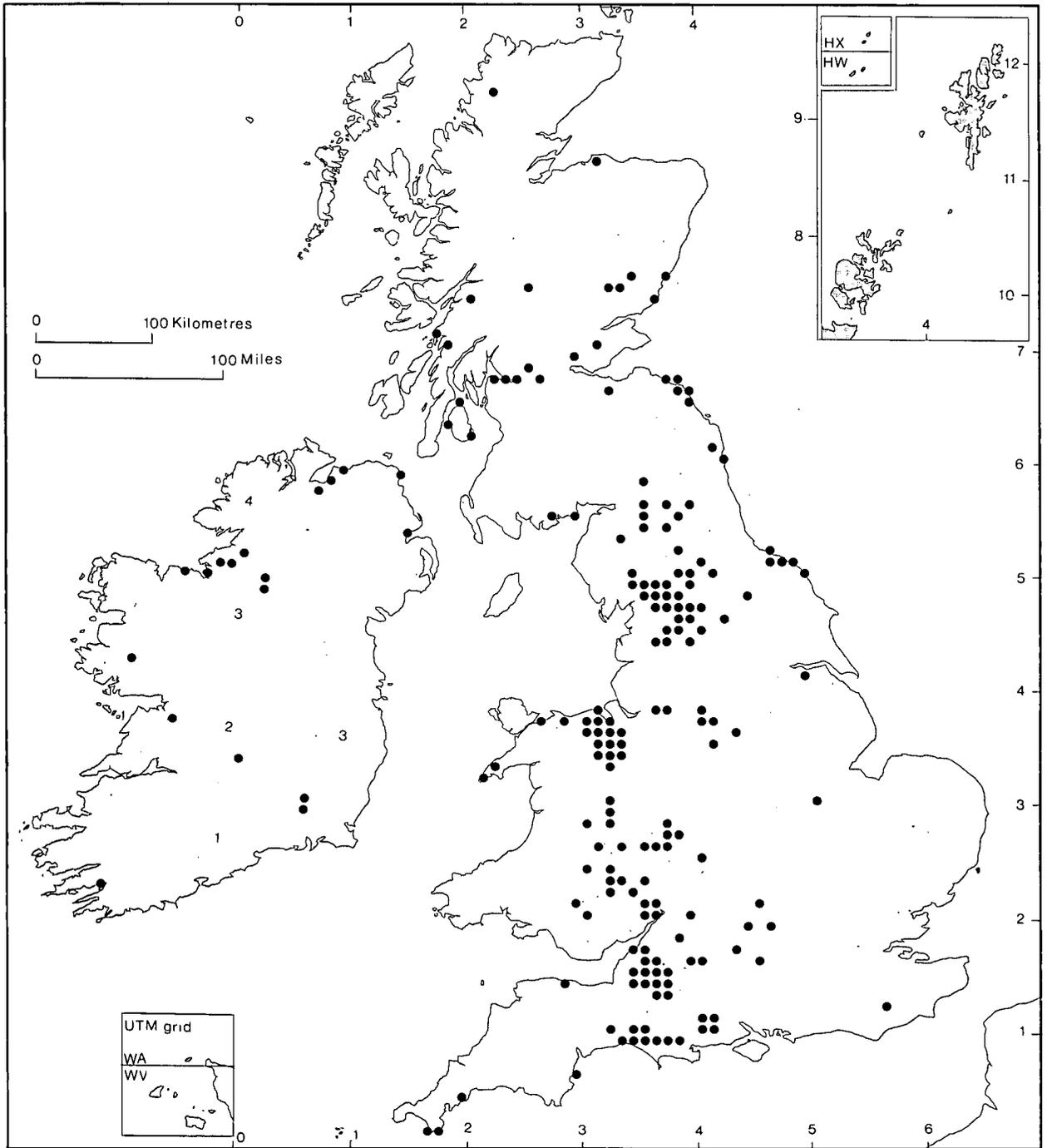
All records ●



52 Rhodobryum roseum (Hedw.) Limpr.

Provisional January 1978

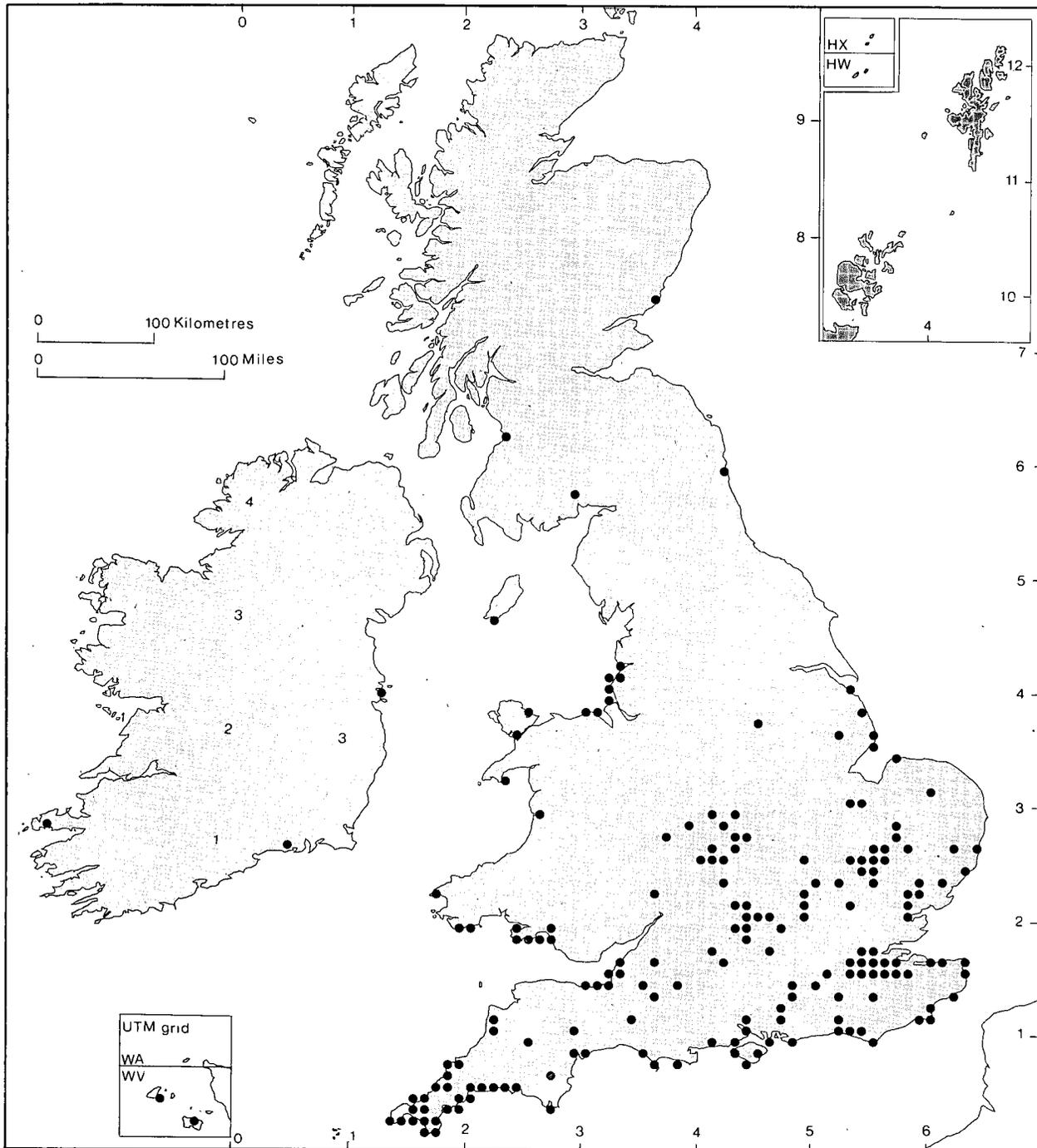
All records ●



53 *Rhynchostegiella teesdalei* (Br. Eur.) Limpr.

Provisional January 1978

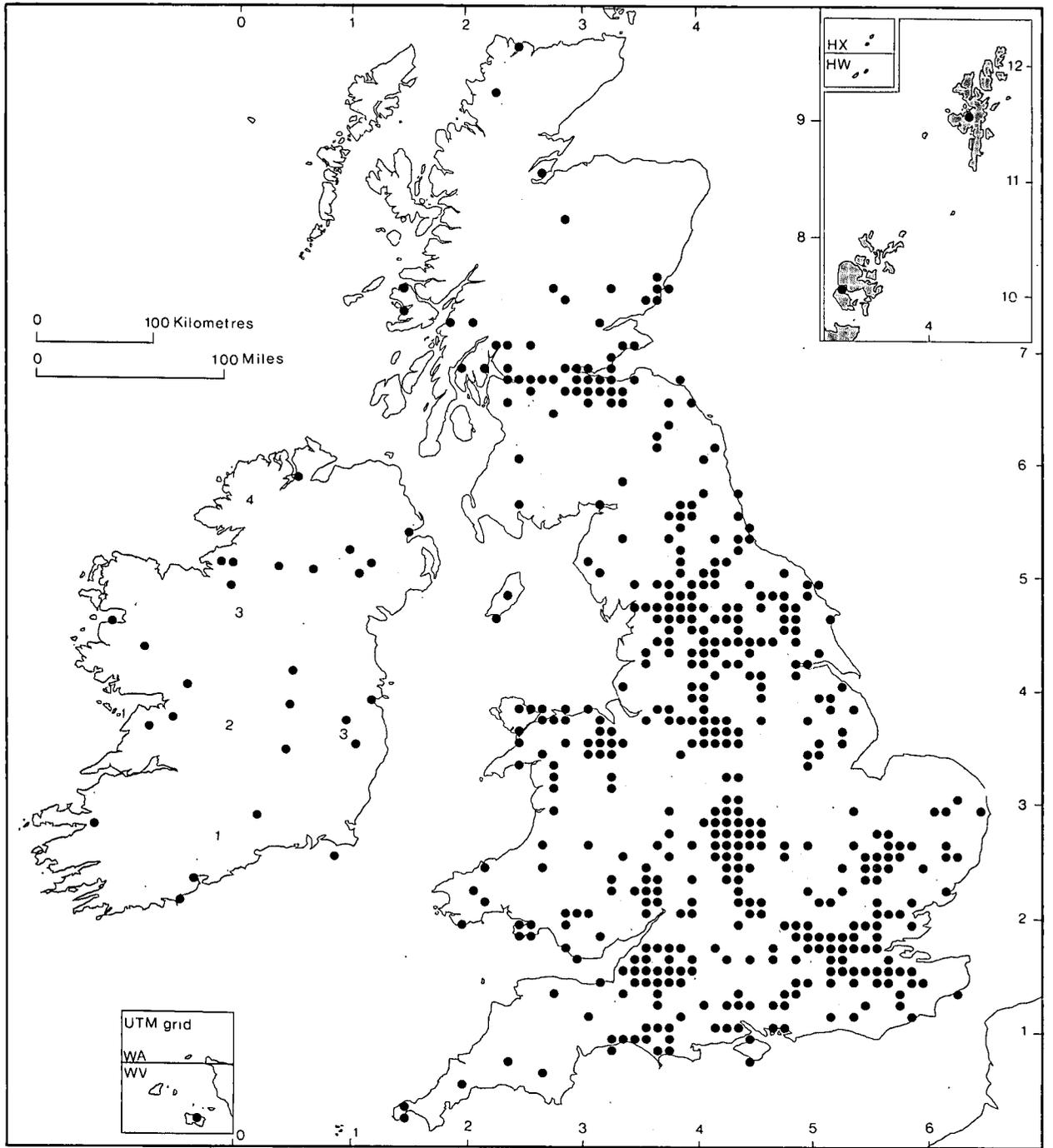
All records ●



54 *Rhynchostegium megapolitanum* (Web. & Mohr) Br. Eur.
Eurhynchium megapolitanum

Provisional January 1978

All records ●

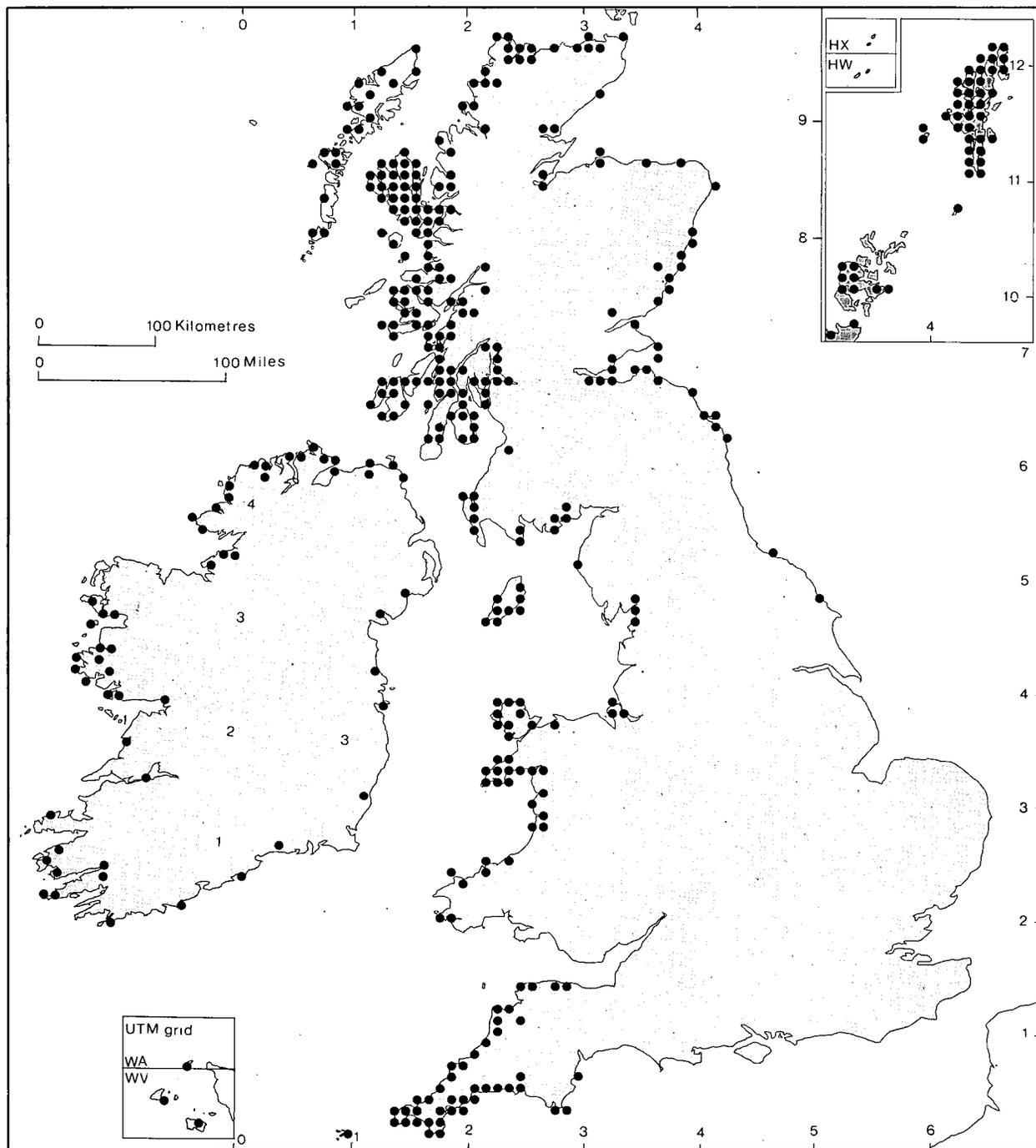


55 Rhynchoslegium murale (Hedw.) Br. Eur.

Eurhynchium murale

Provisional January 1978

All records ●

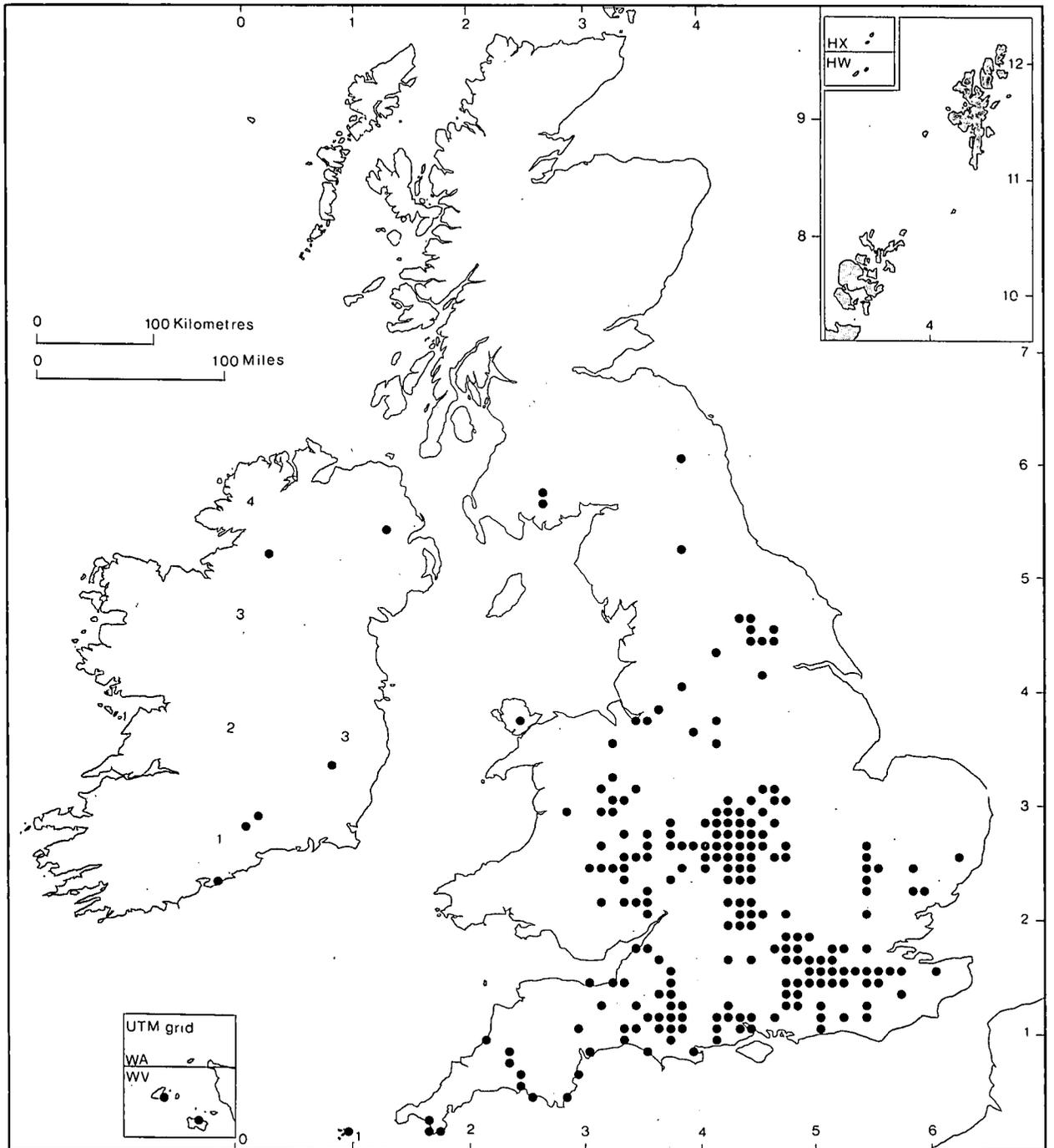


56 Schistidium maritimum (Tayl.) Br. Eur.

Grimmia maritima

Provisional January 1978

All records ●



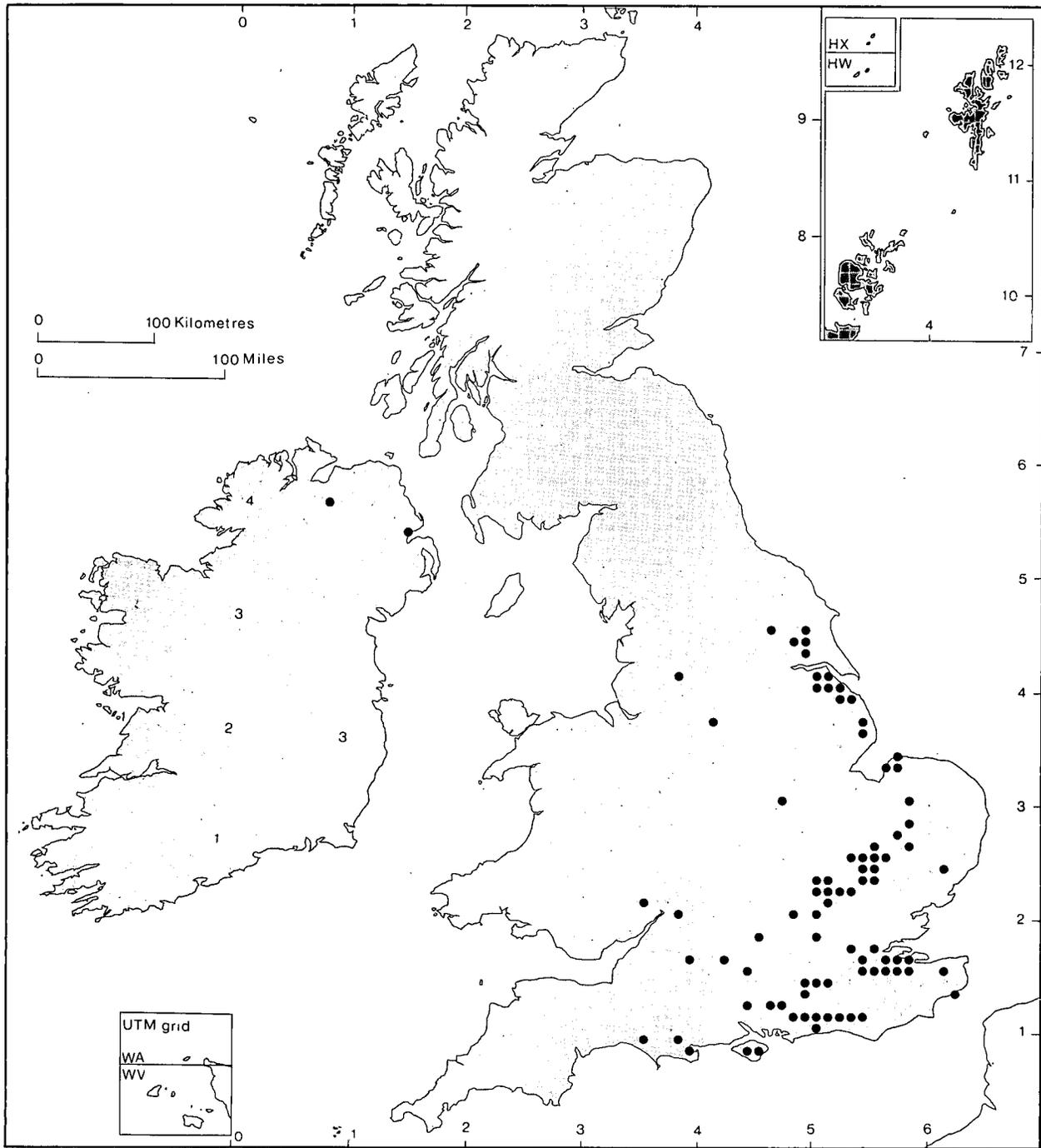
57 Scleropodium cespitans

(C. Müll.) L. Koch.

Scleropodium caespitosum

Provisional January 1978

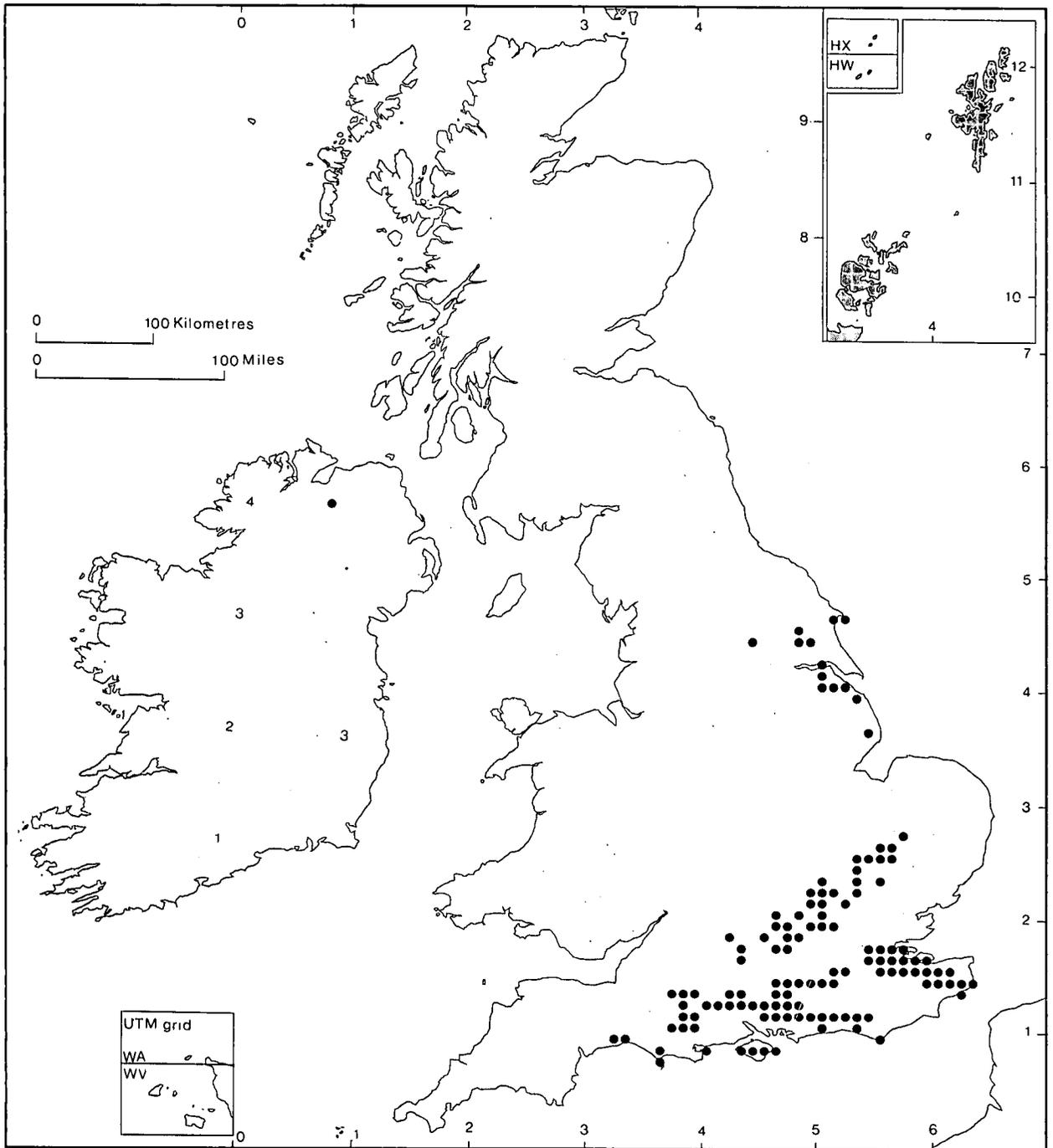
All records ●



58 Seligeria calcarea (Hedw.) Br. Eur.

Provisional January 1978

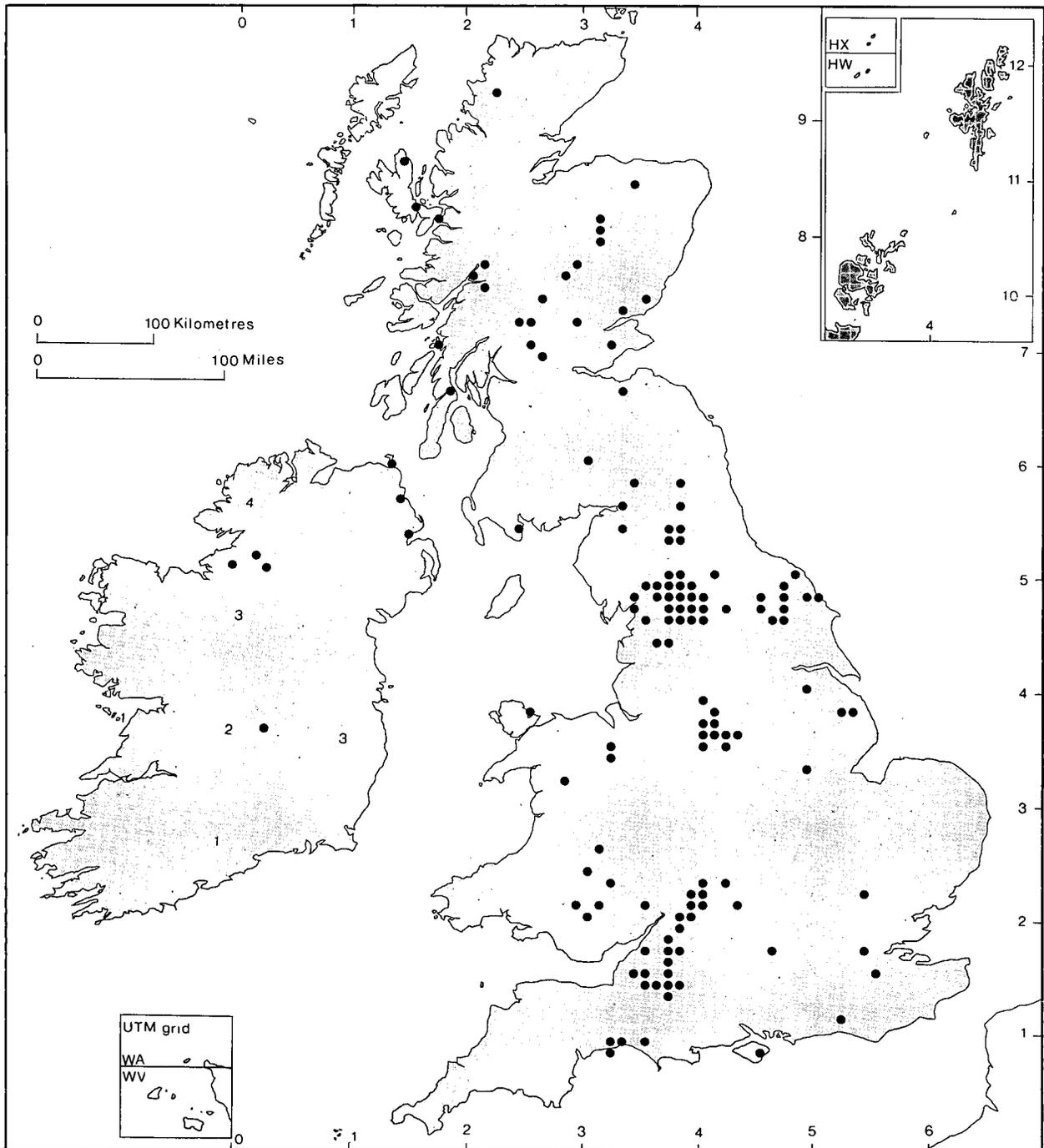
All records ●



59 Seligeria paucifolia (Dicks.) Carruthers

Provisional January 1978

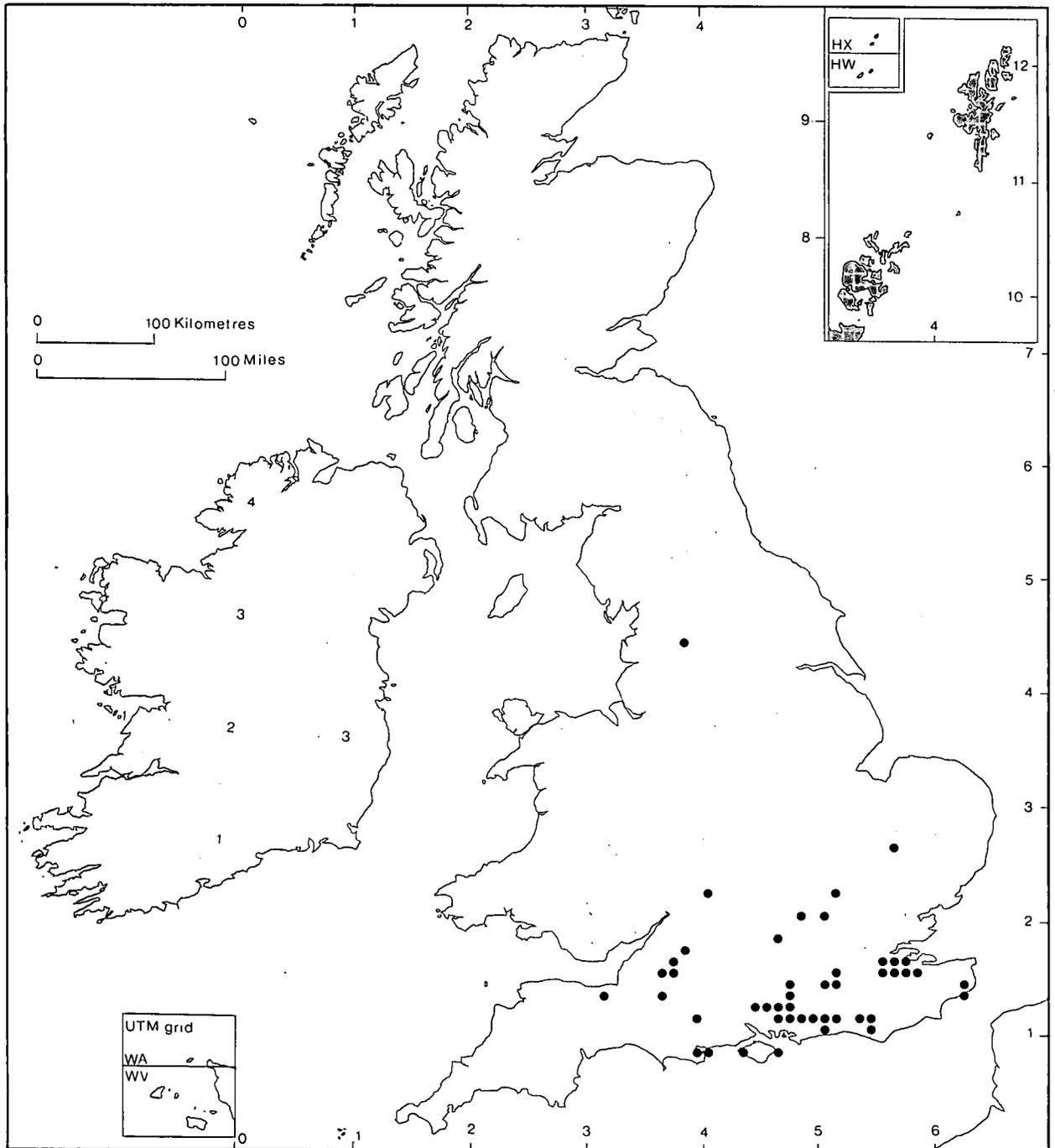
All records ●



60 Seligeria pusilla (Hedw.) Br. Eur.

Provisional January 1978

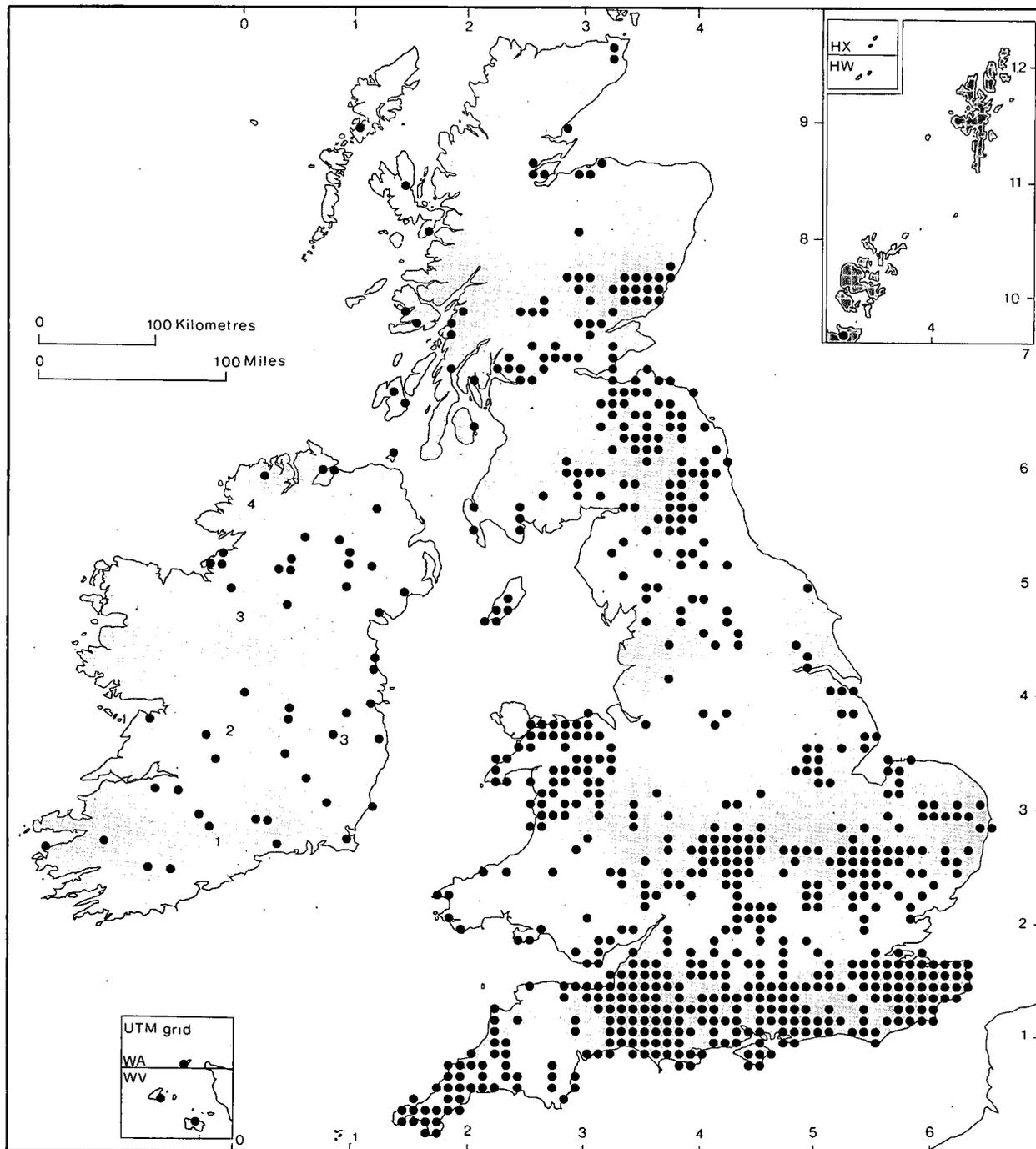
All records ●



61 *Tortella inflexa* (Bruch.) Broth

Provisional January 1978

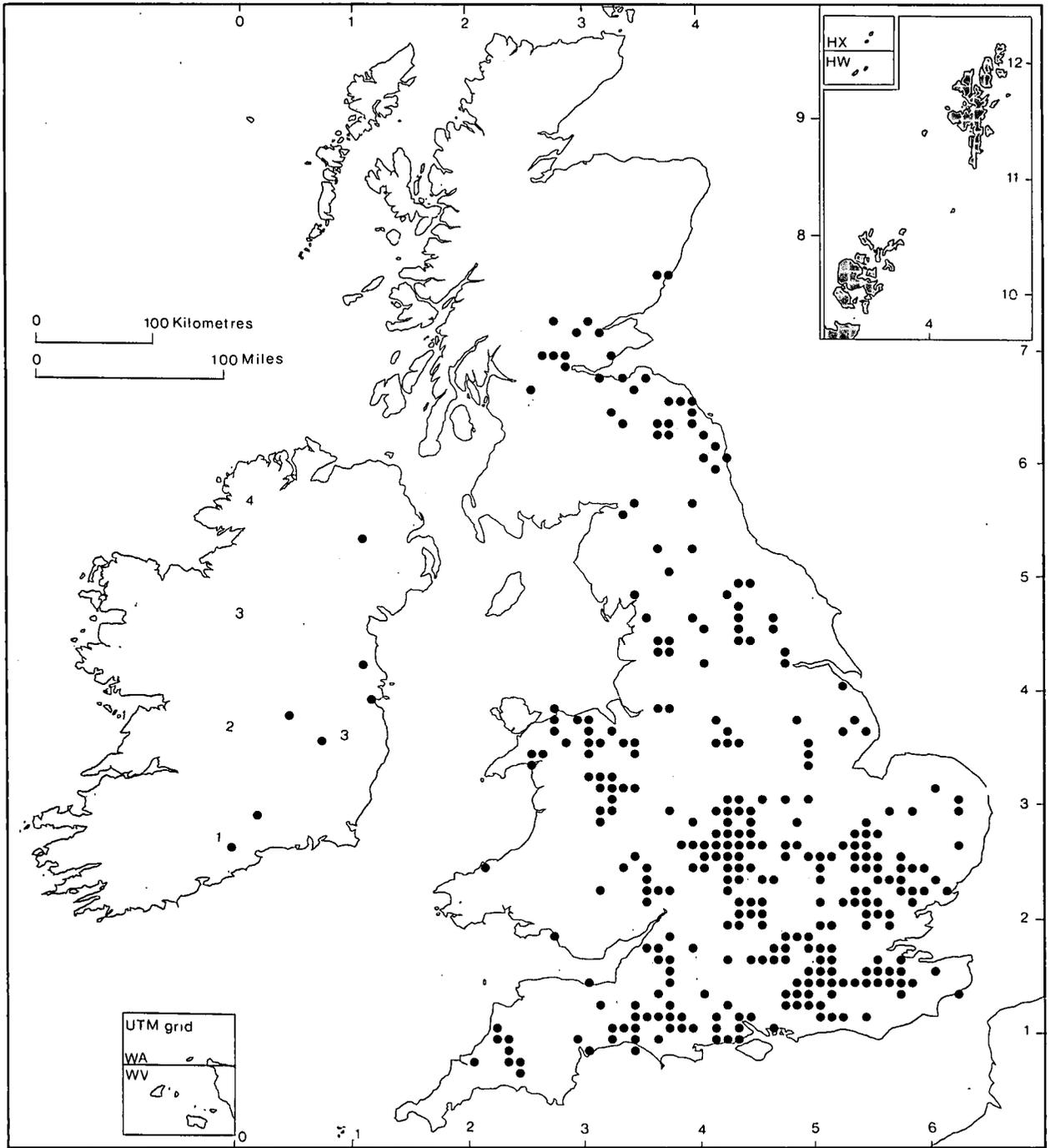
All records ●



62 Tortula laevipila (Brid.) Schwaegr.

Provisional January 1978

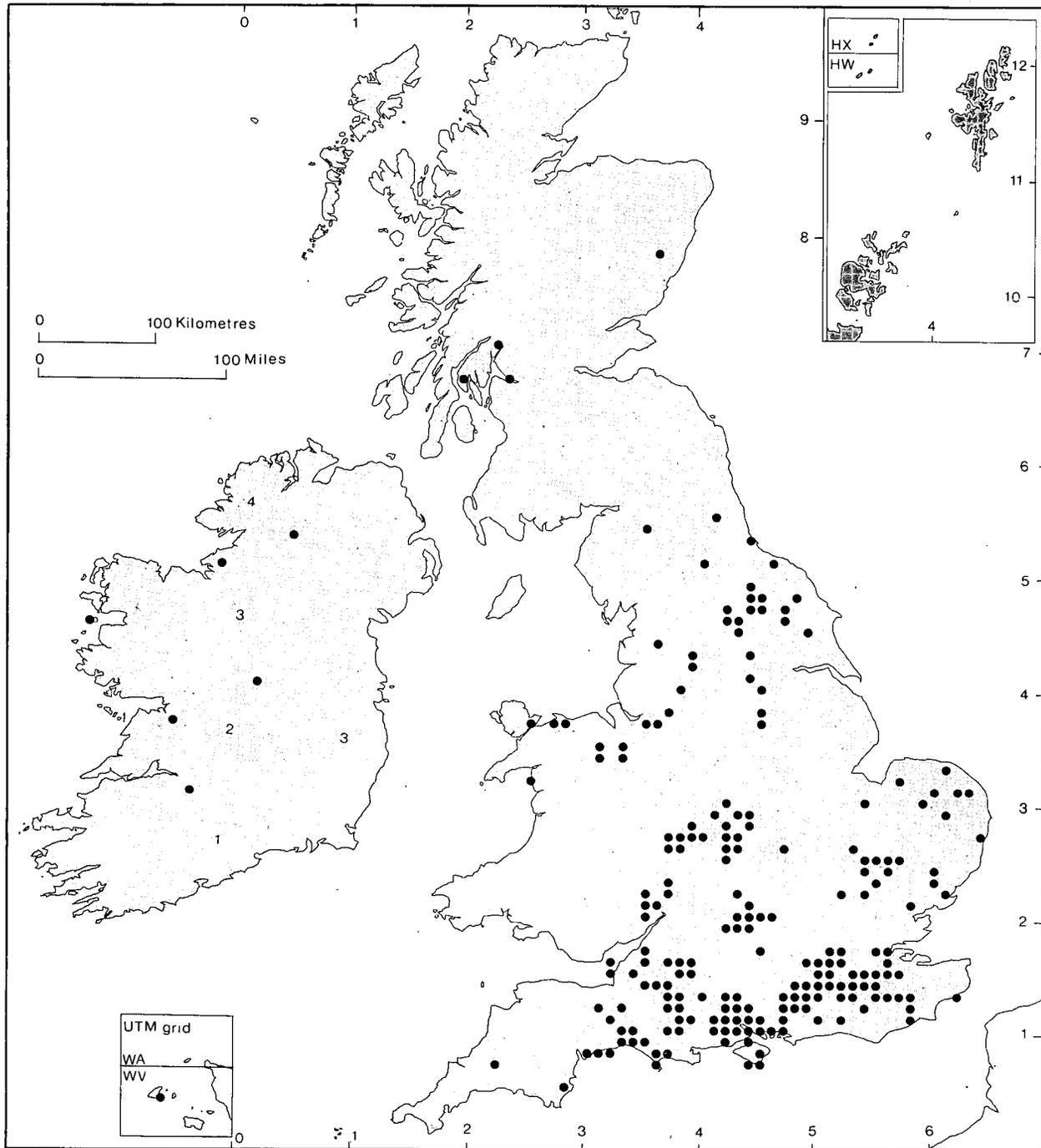
All records ●



63 Tortula latifolia Bruch ex Hartm.

Provisional January 1978

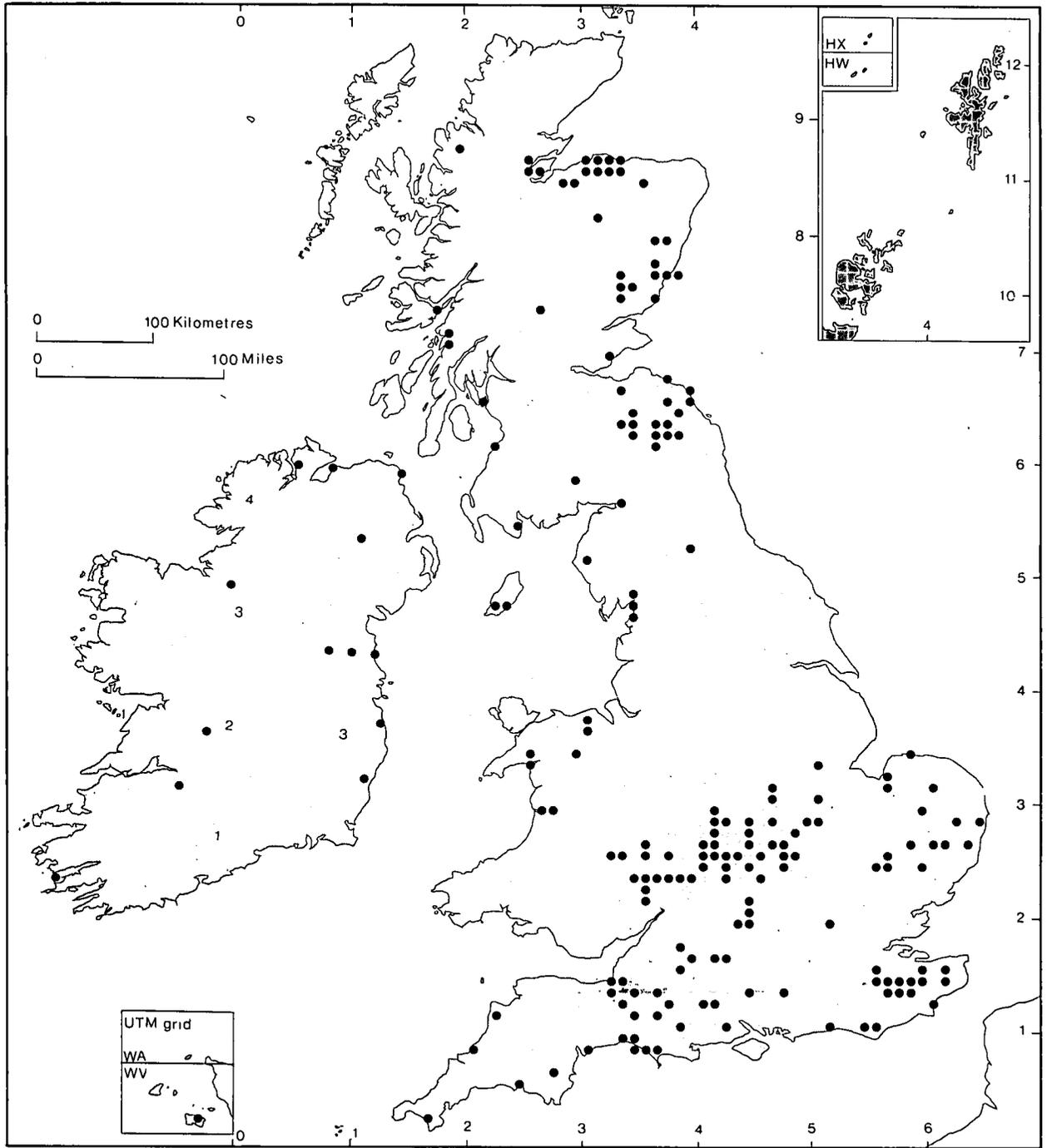
All records ●



64 *Tortula marginata* (Br. Eur.) Spruce

Provisional January 1978

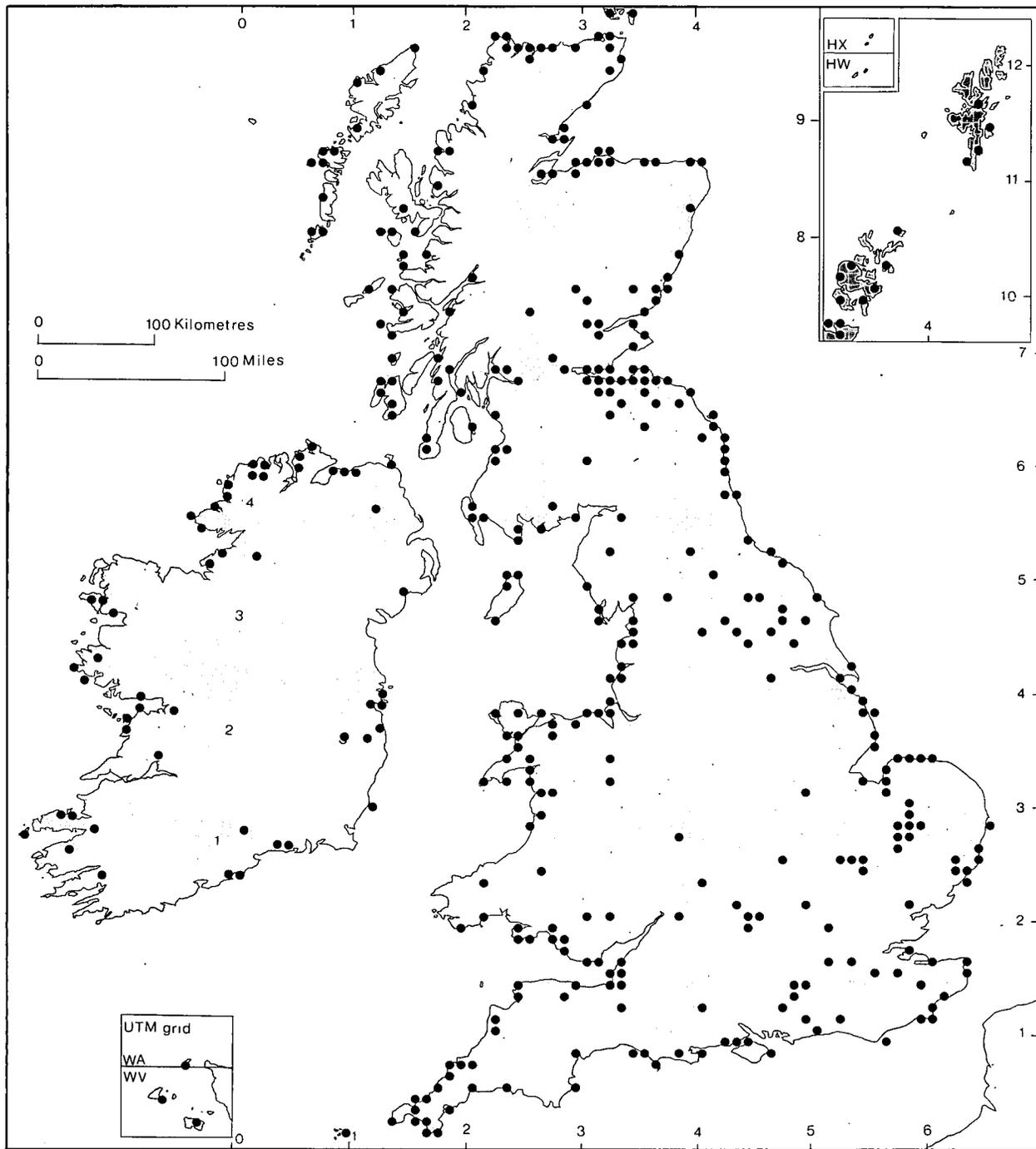
All records ●



65 *Tortula papillosa* Wils. ex Spruce

Provisional January 1978

All records ●

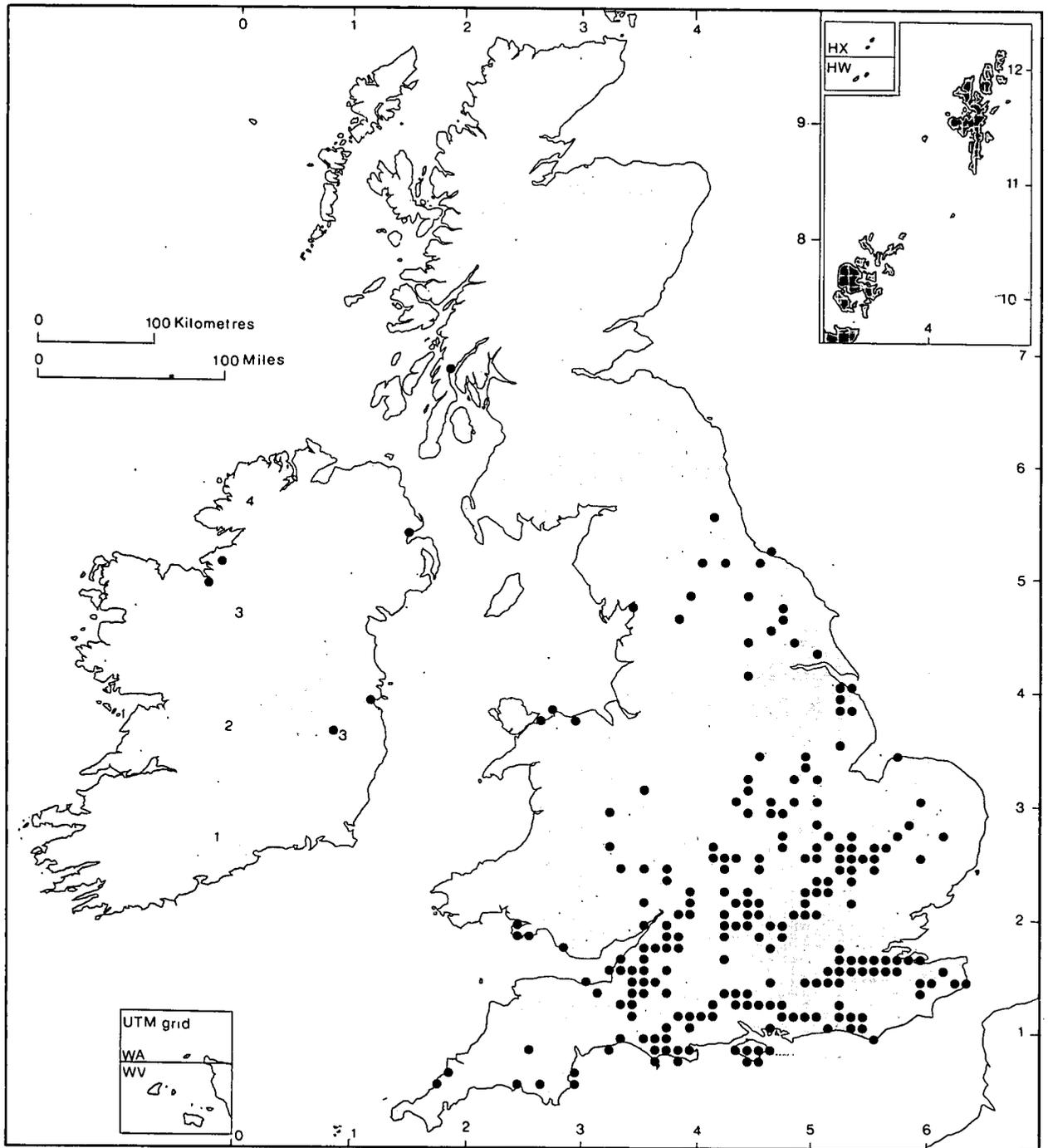


66 *Tortula ruralis* ssp. *ruraliformis* (Bruch) Dix.

Provisional January 1978

All records ●

Tortula ruraliformis

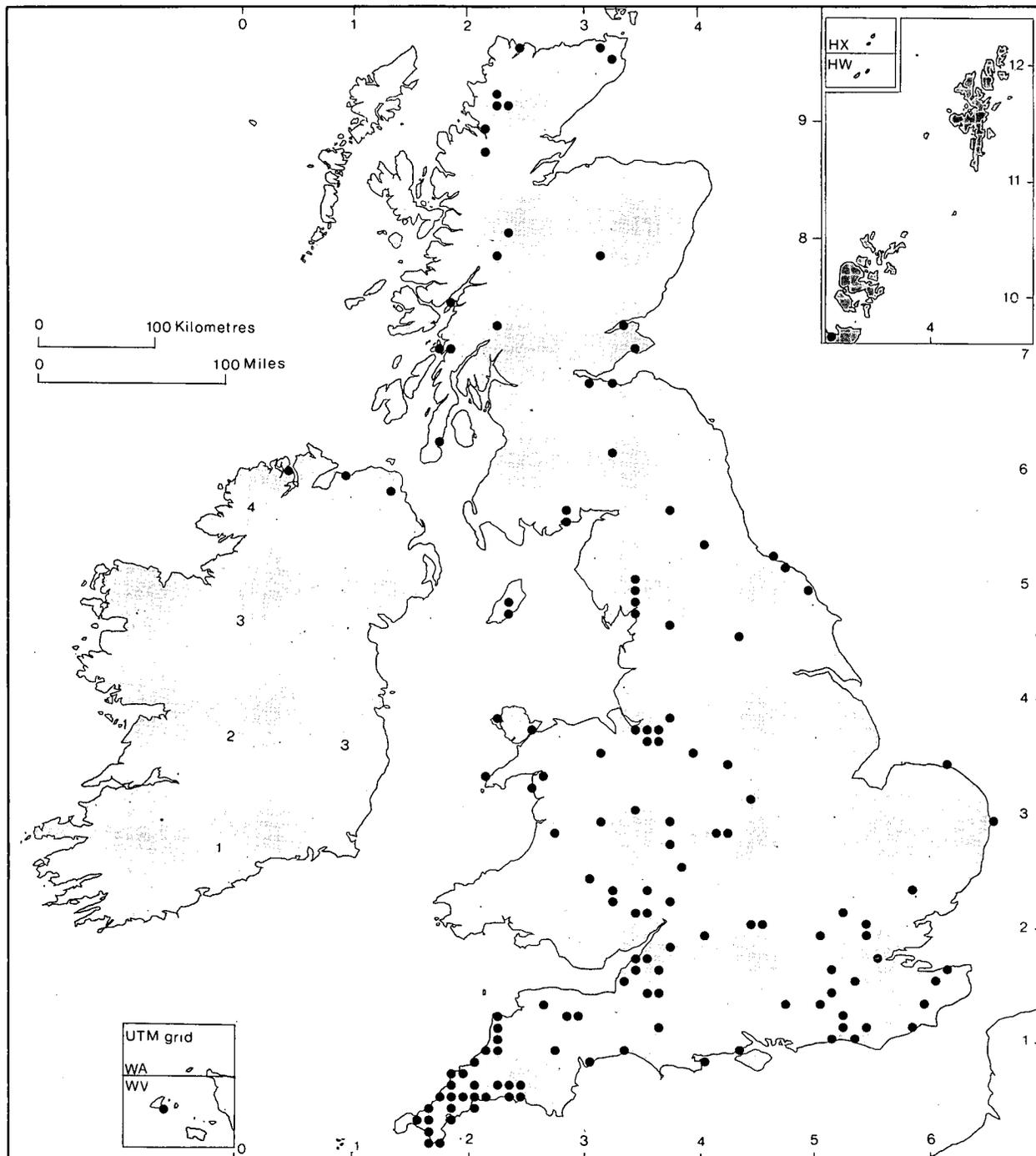


67 Weissia longifolia Mitt.

Provisional January 1978

All records ●

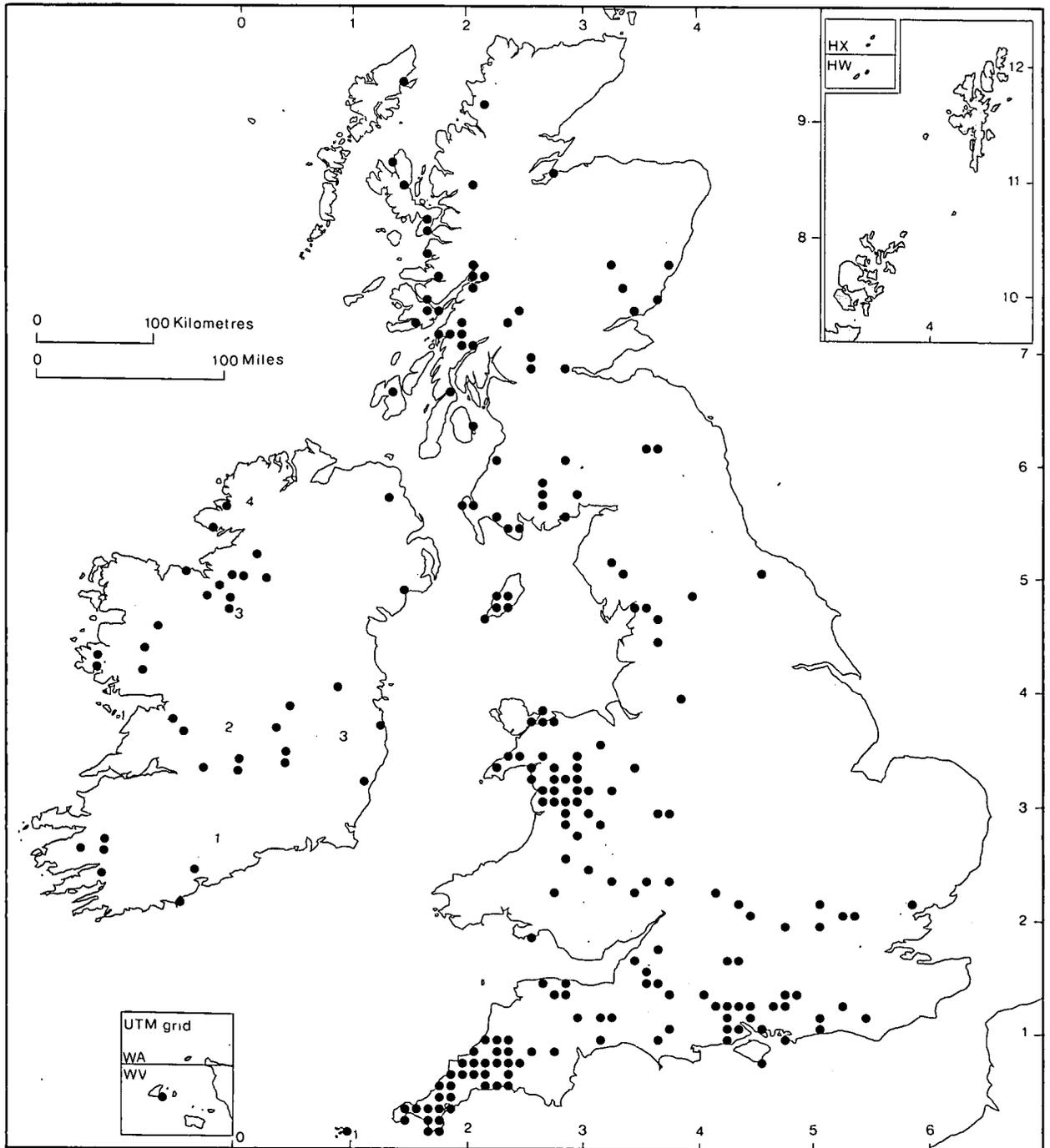
Weissia crispa



68 Weissia rutilans (Hedw.) Mitt.

Provisional January 1978

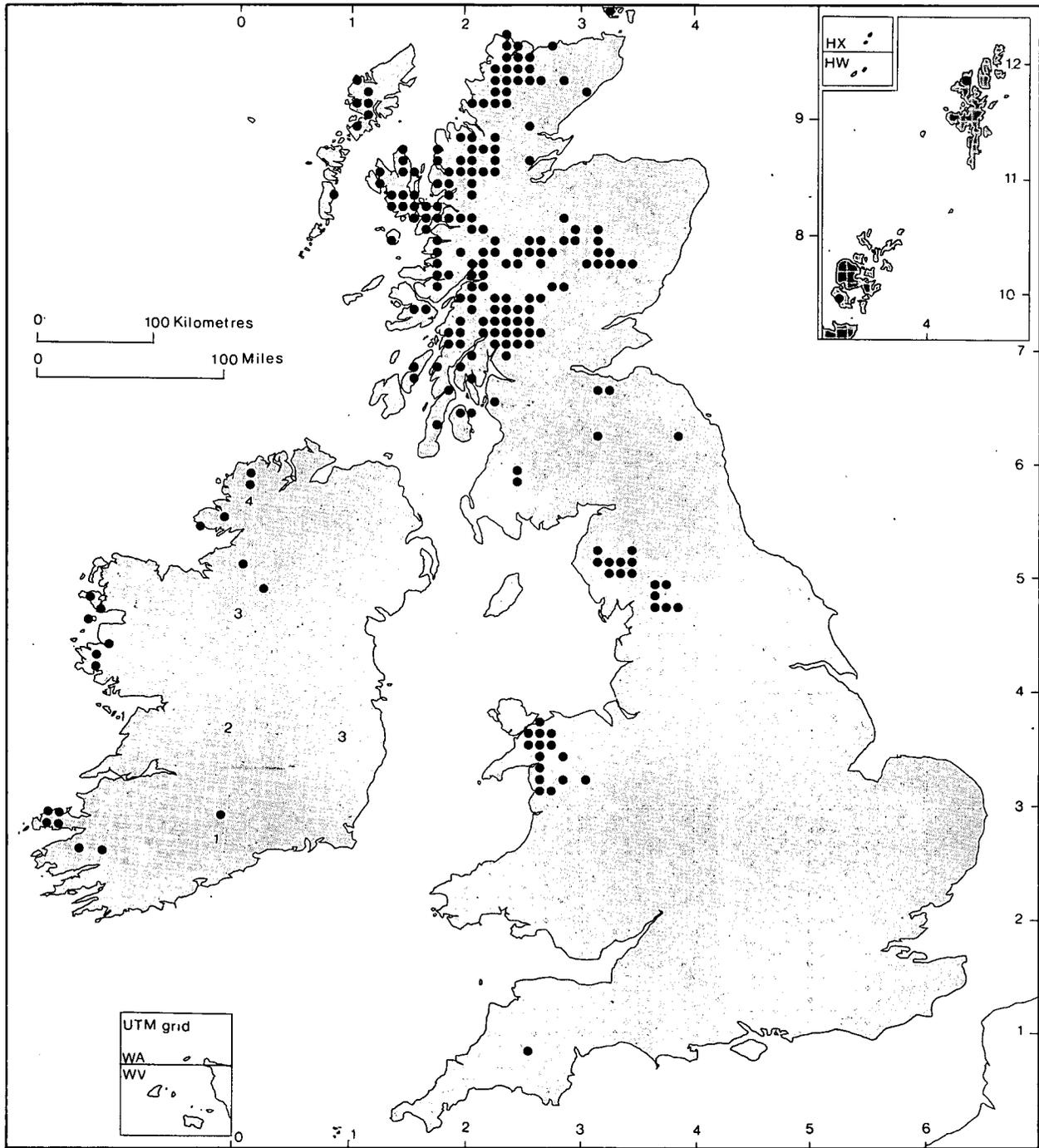
All records ●



69 *Zygodon conoideus* (Dicks.) Hook. & Tayl.

Provisional January 1978

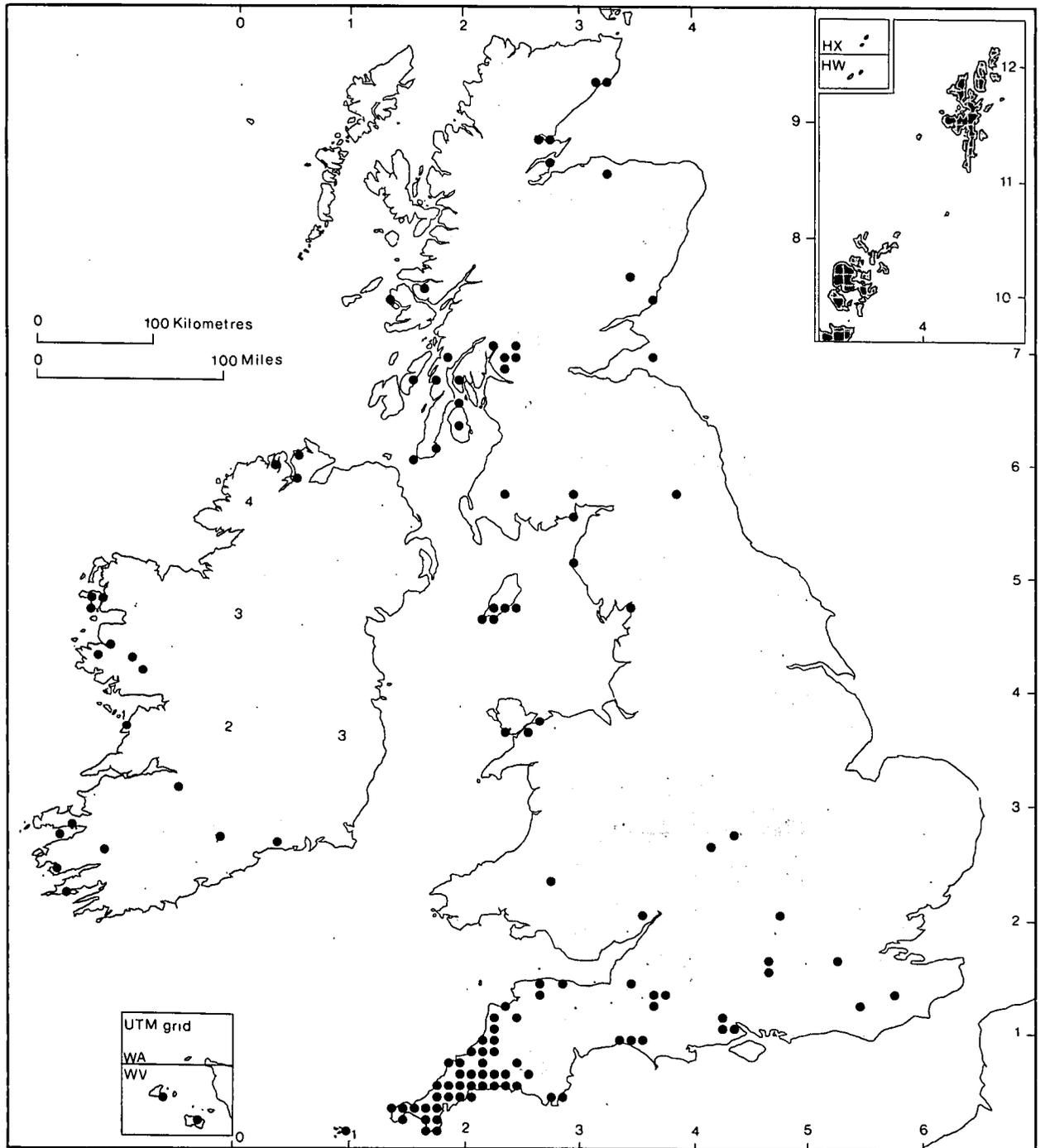
All records ●



70 *Anastrepta orcadensis* (Hook.) Schiffn.

Provisional January 1978

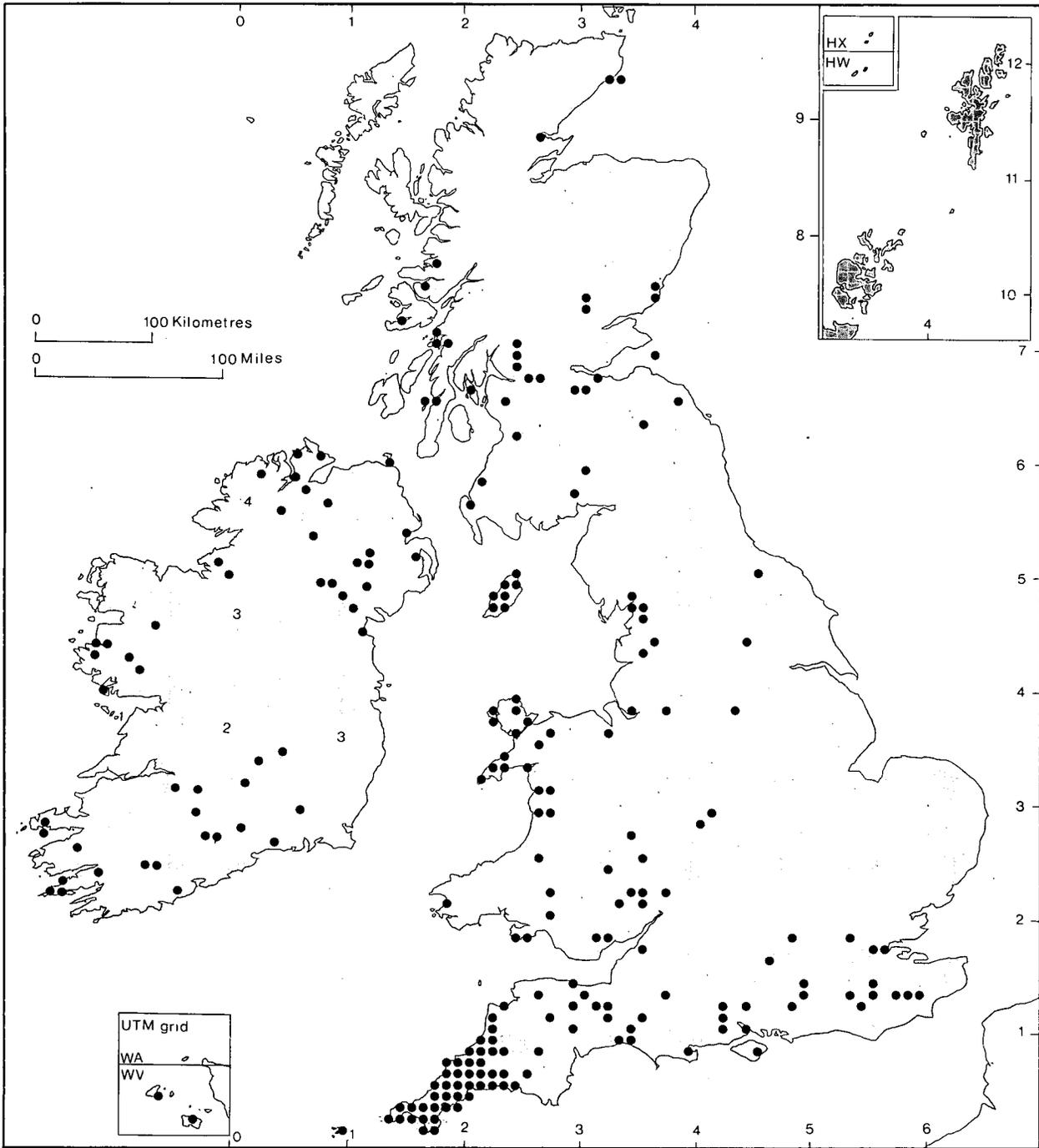
All records ●



71 *Anthoceros husnotii* Steph.

Provisional January 1978

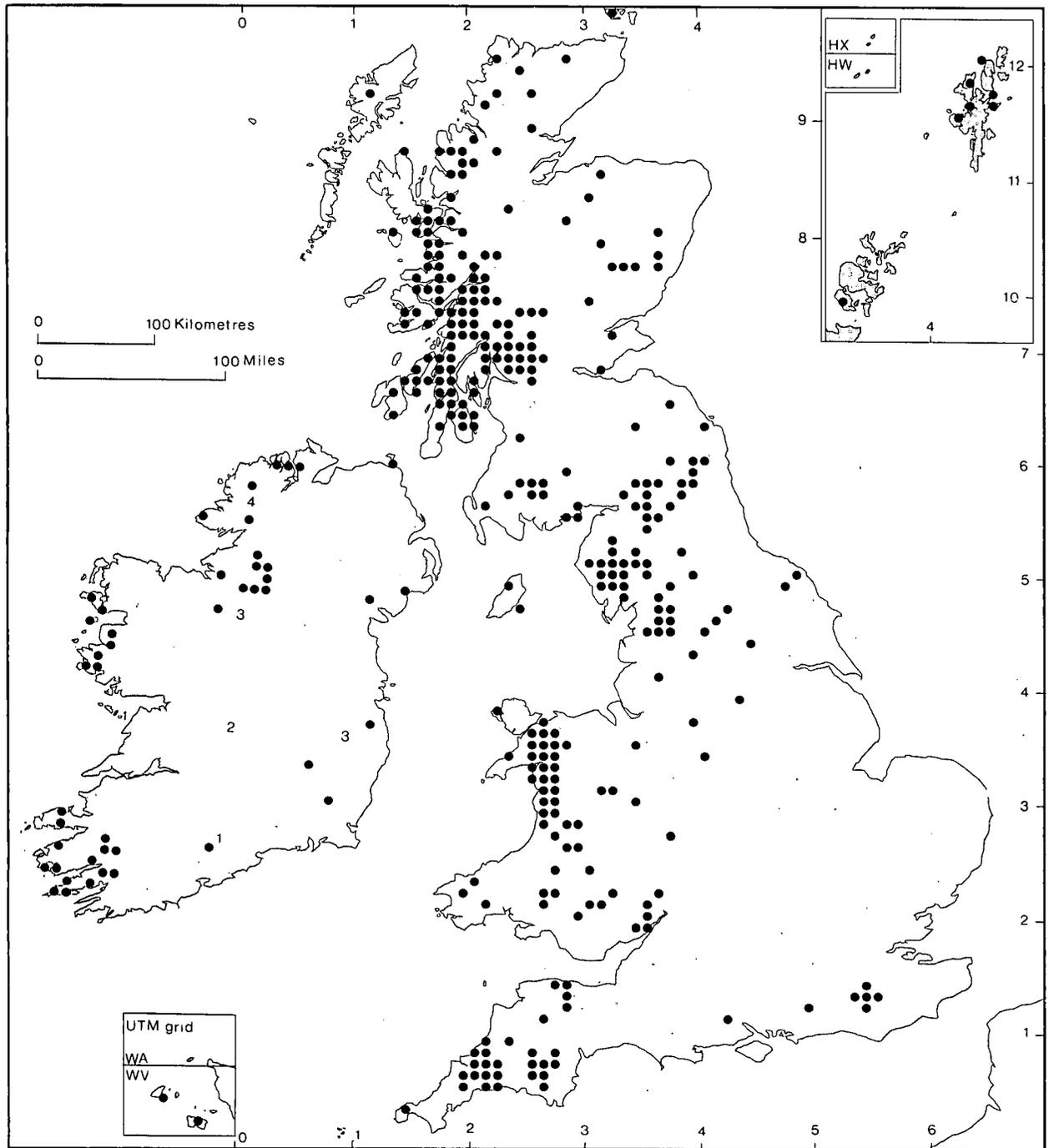
All records ●



72 *Anthoceros laevis* L.

Provisional January 1978

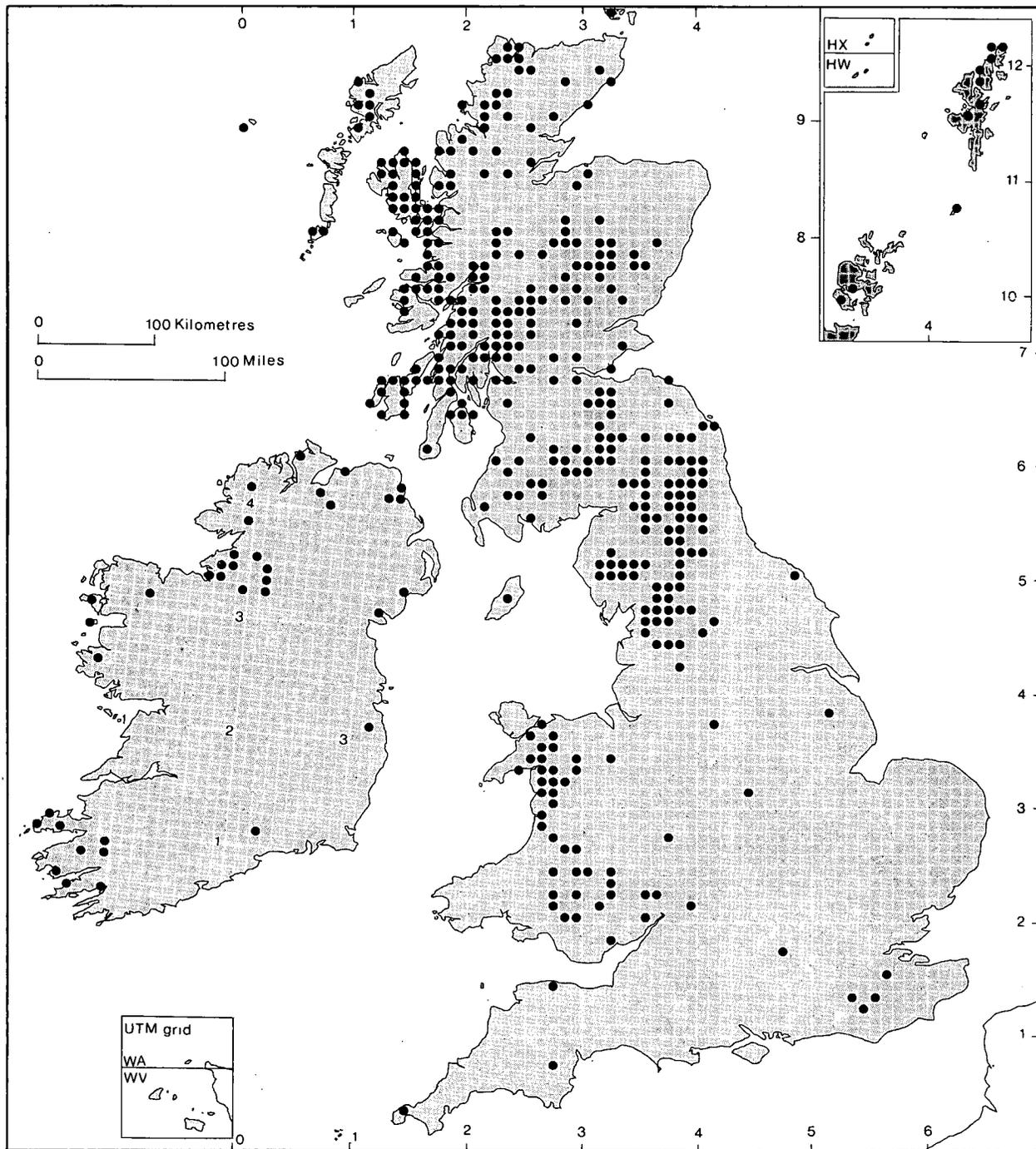
All records ●



73 Bazzania trilobata (L.) Gray

Provisional January 1978

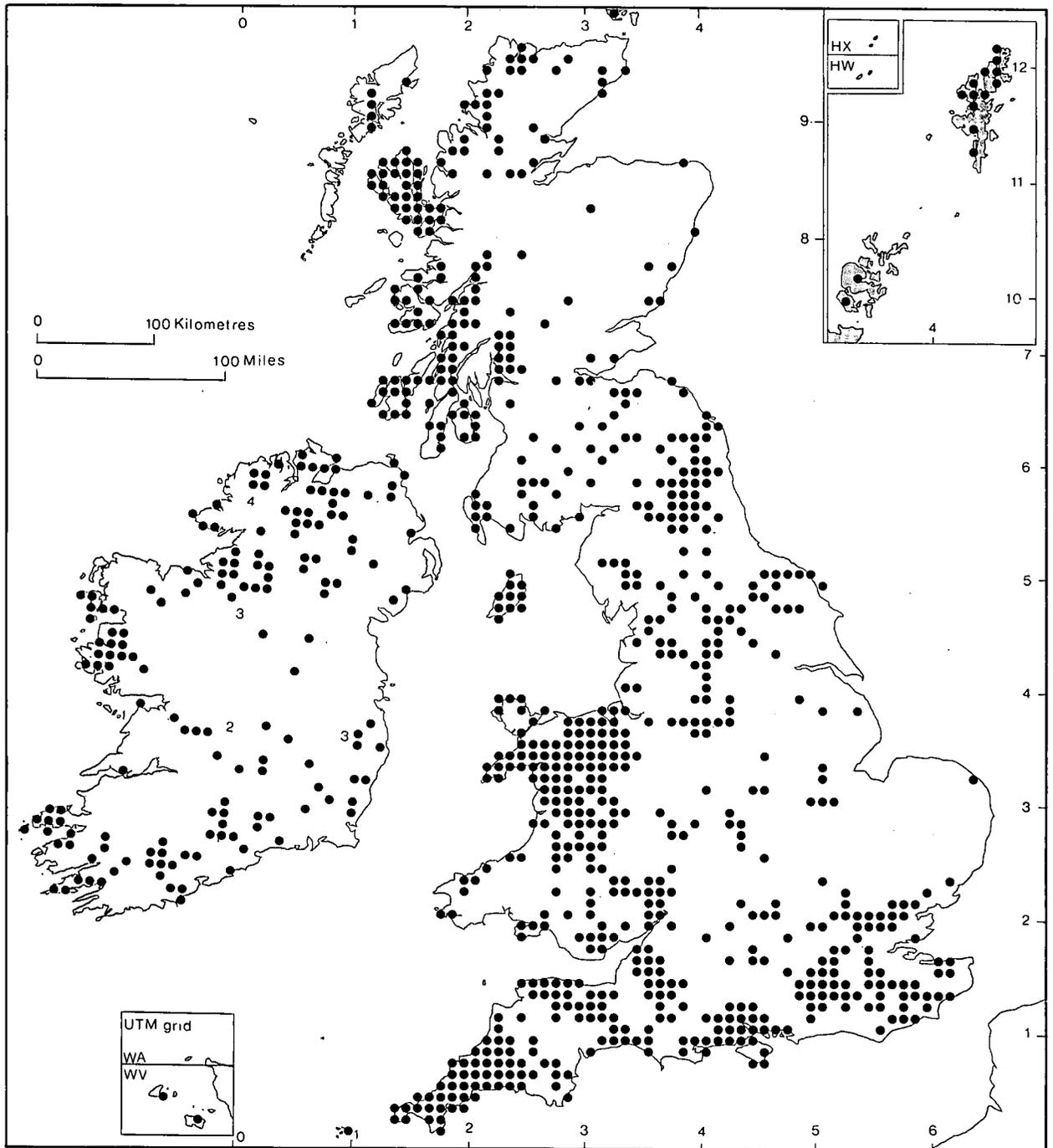
All records ●



74 *Blepharostoma trichophylla* (L.) Dum.

Provisional January 1978

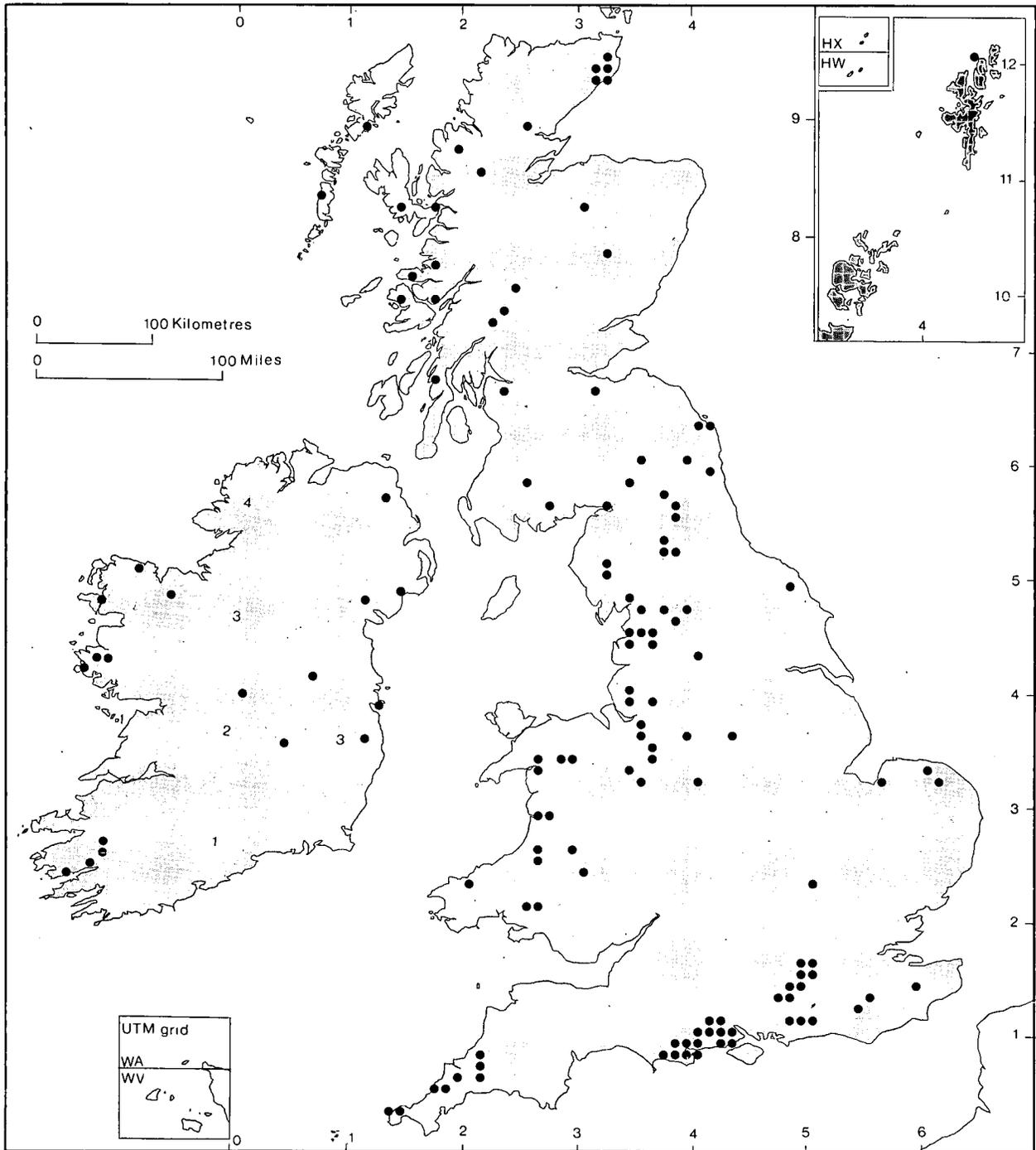
All records ●



75 Calypogeia arguta Nees & Mont.

Provisional January 1978

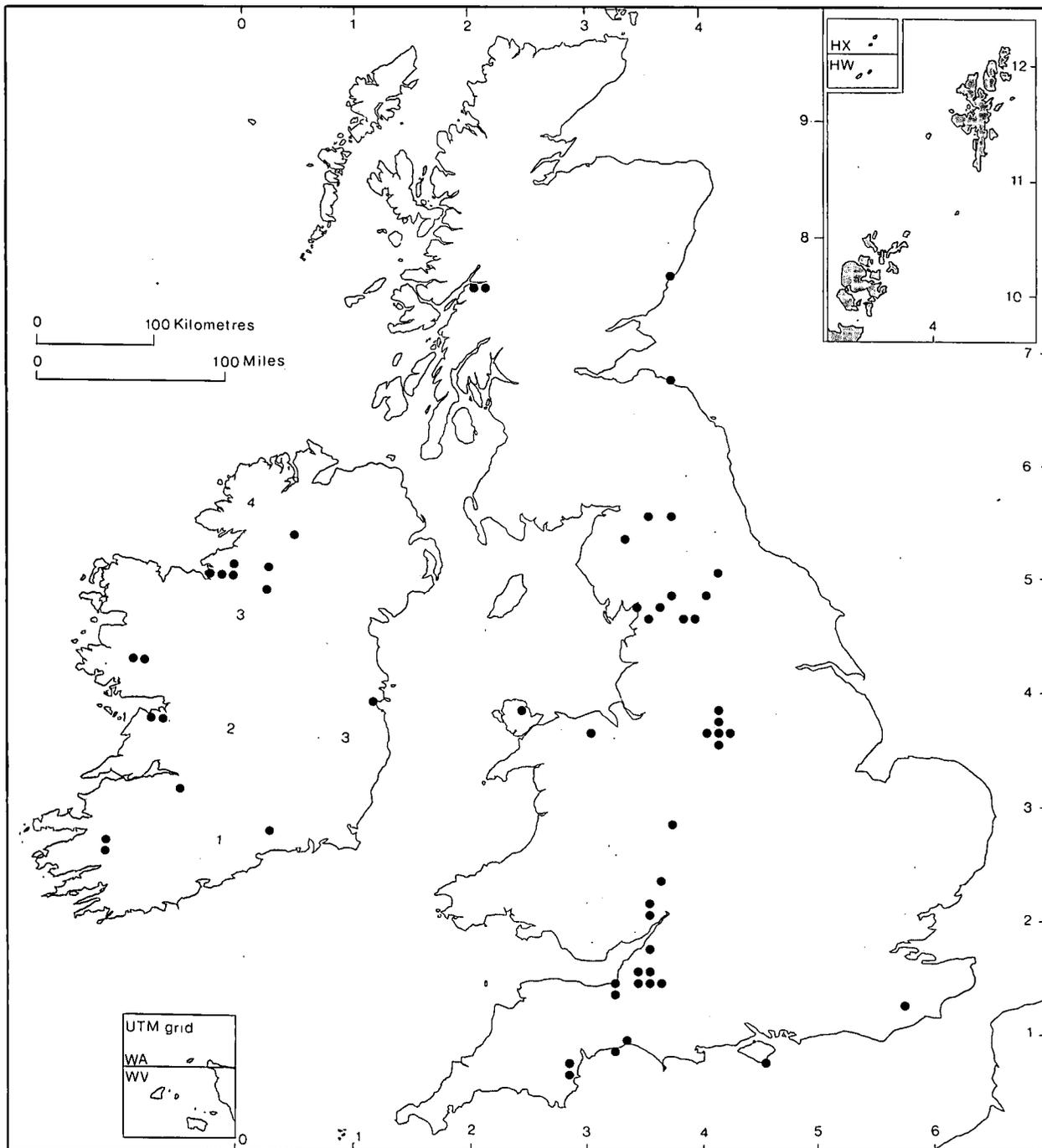
All records ●



76 Cladopodiella fluitans (Nees) Buch.

Provisional January 1978

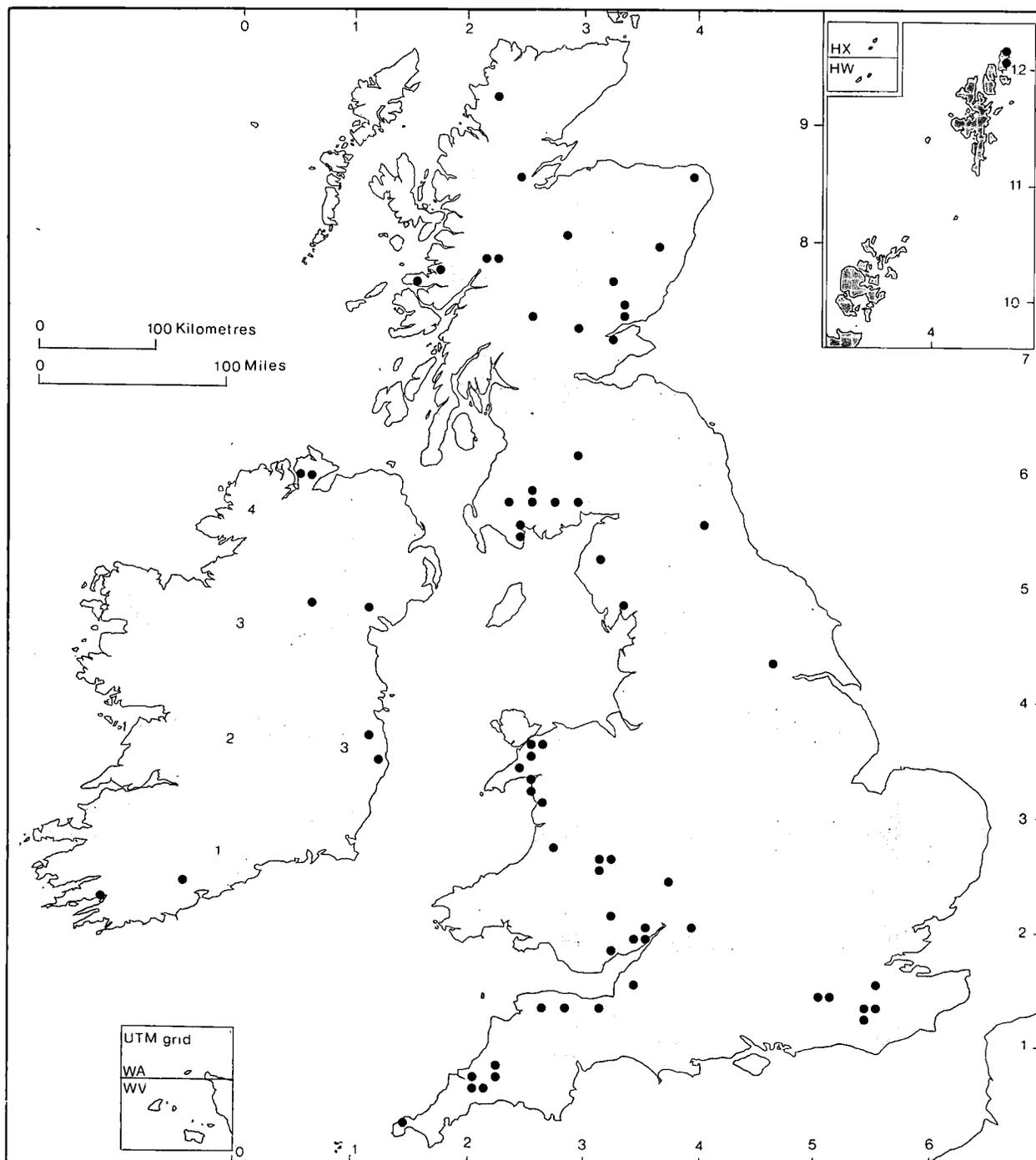
All records ●



77 *Cololejeunea rossettiana* (Lib.) Schiffn.

Provisional January 1978

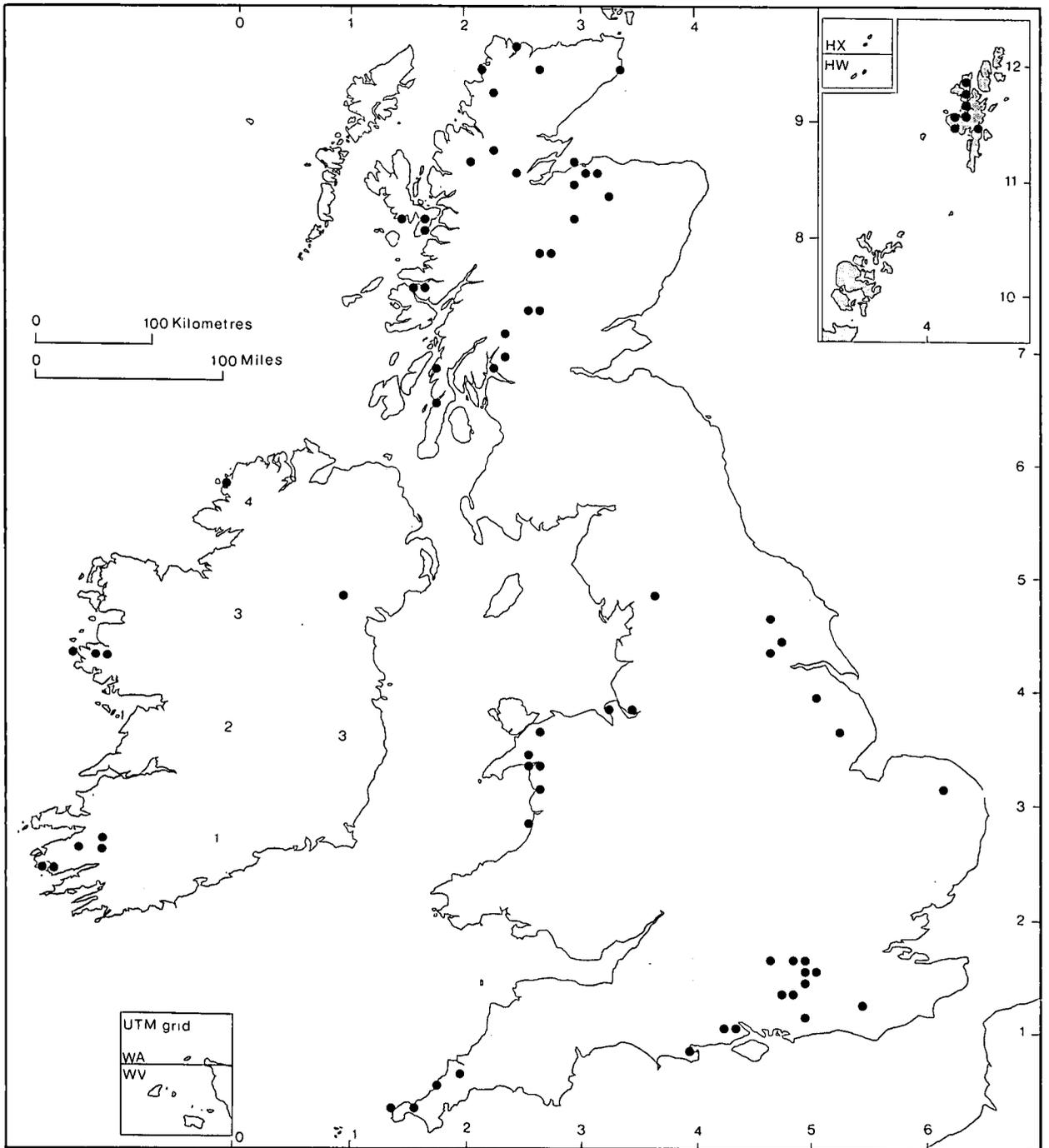
All records ●



78 *Diplophyllum obtusifolium* (Hook.) Dum.

Provisional January 1978

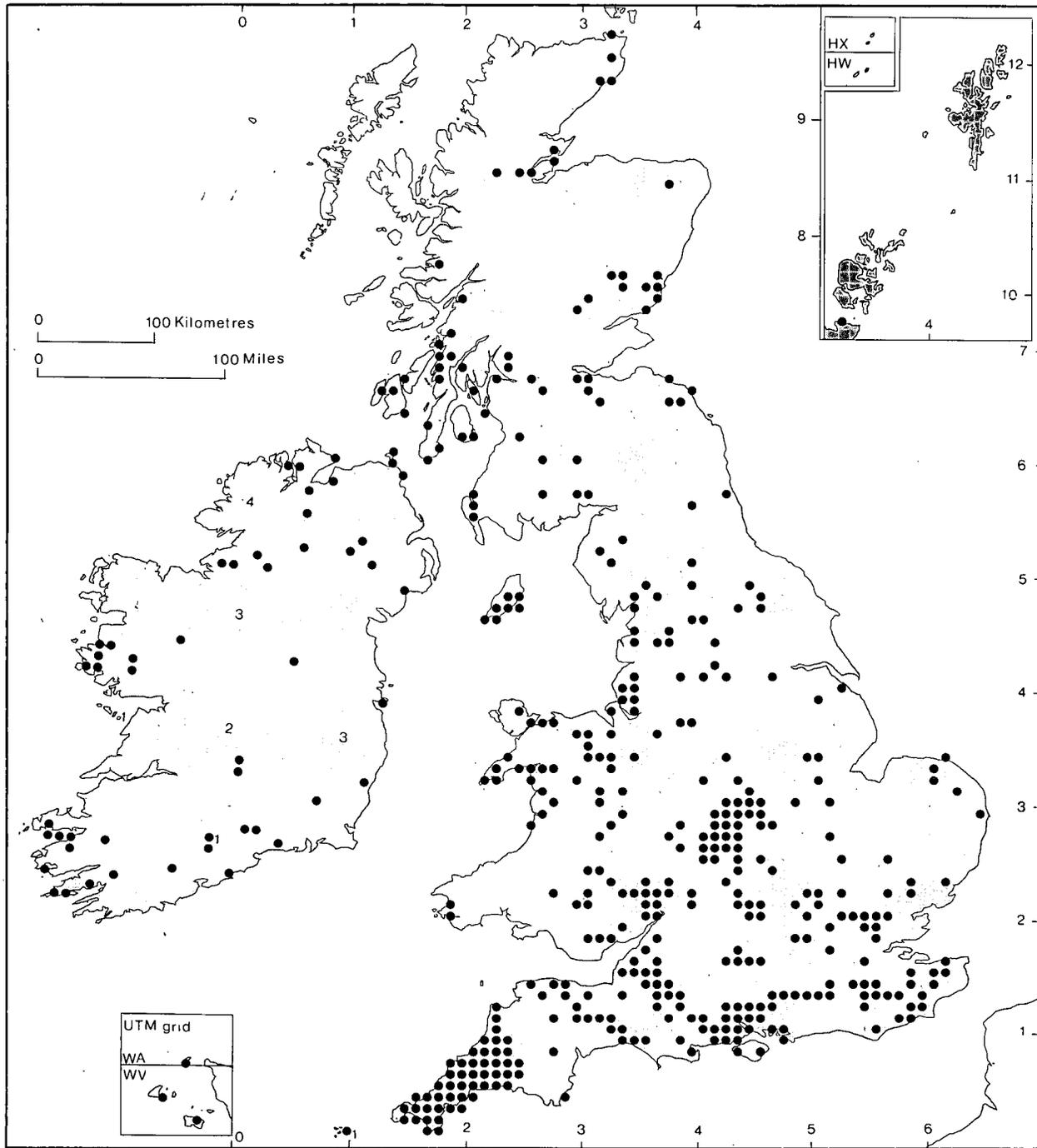
All records ●



79 Fossombronina foveolata Lindb.

Provisional January 1978

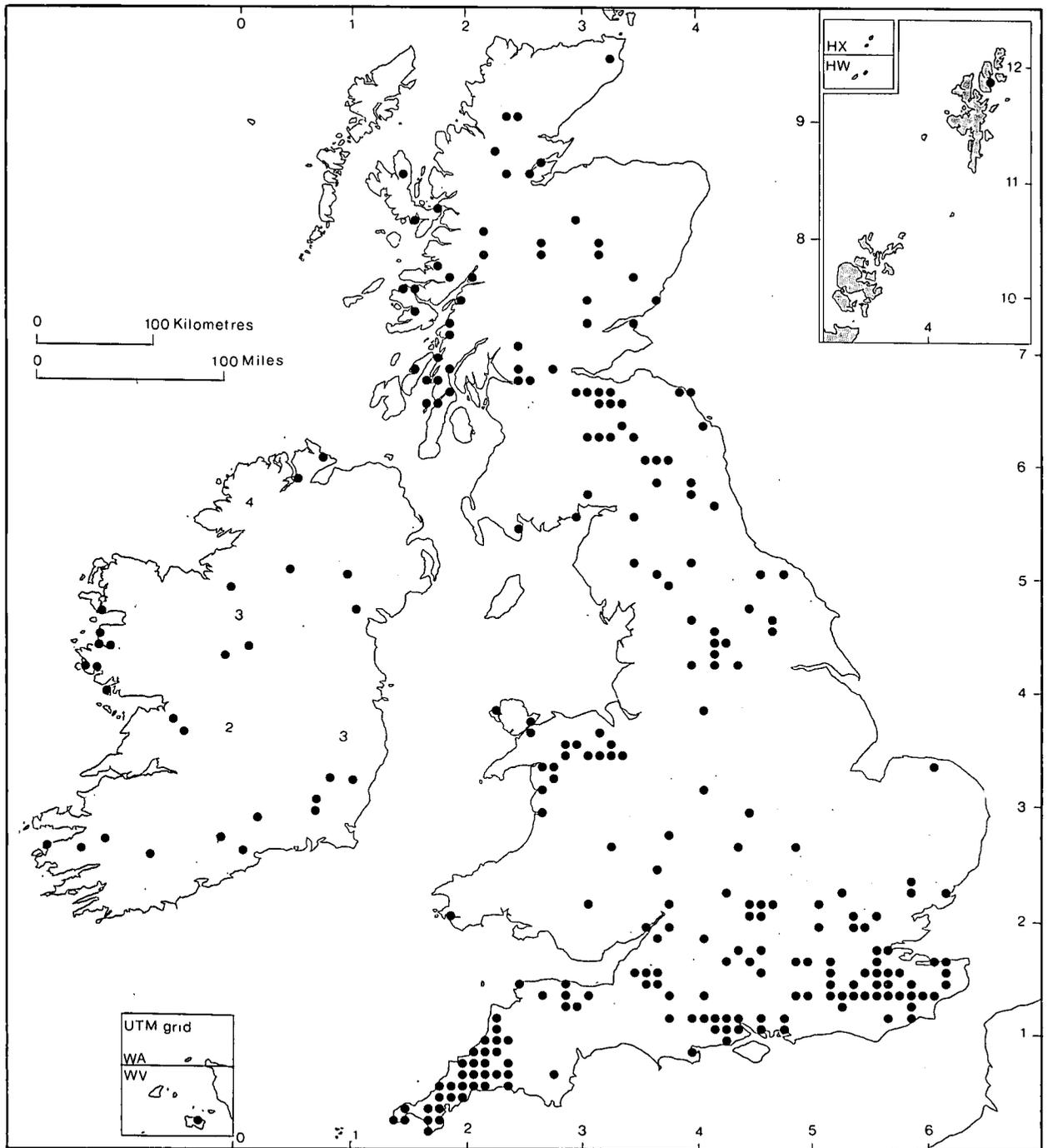
All records ●



80 *Fossombronia pusilla* (L.) Dum.

Provisional January 1978

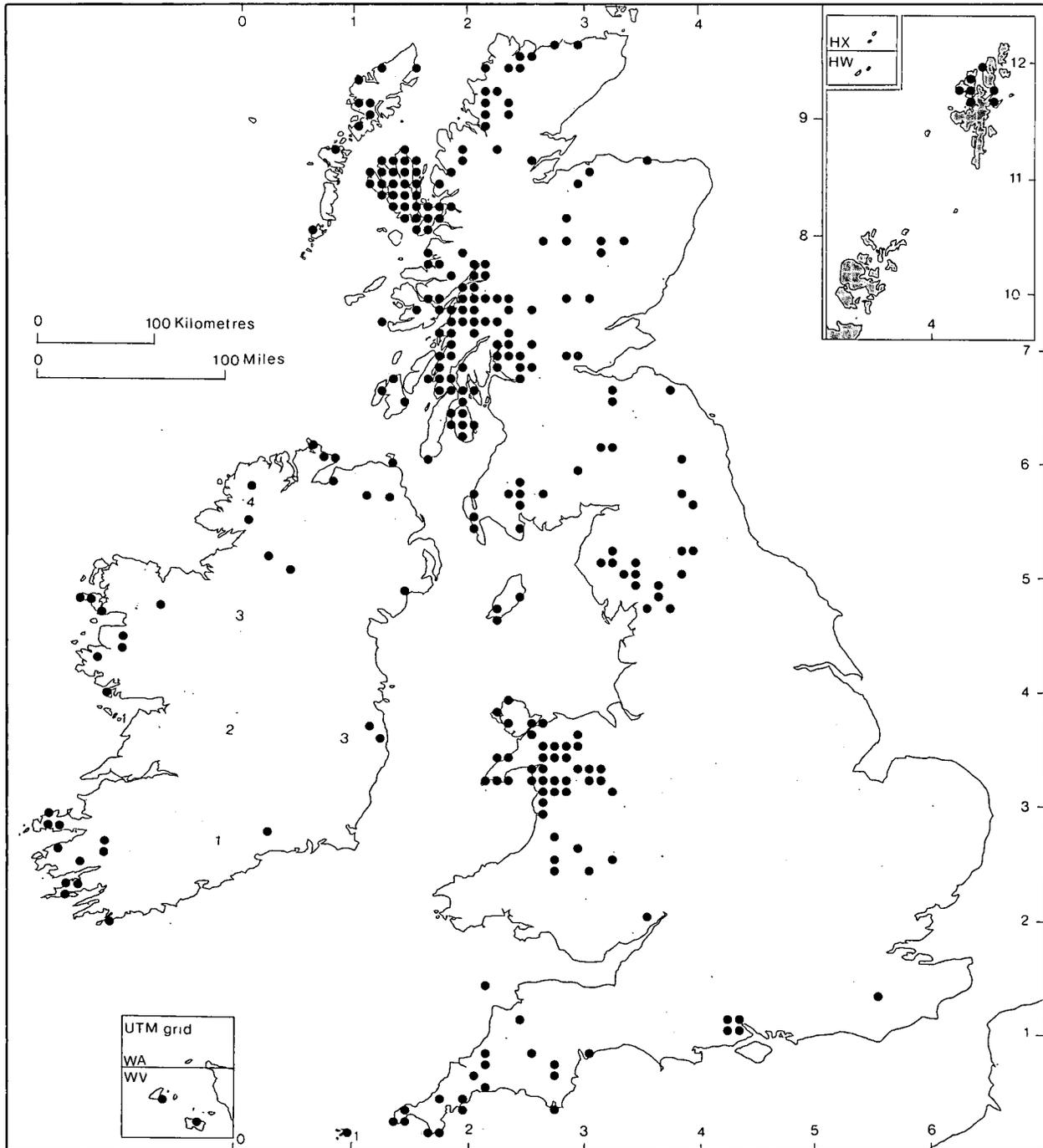
All records ●



81 *Fossombronina wondraczekii* (Corda) Dum.

Provisional January 1978

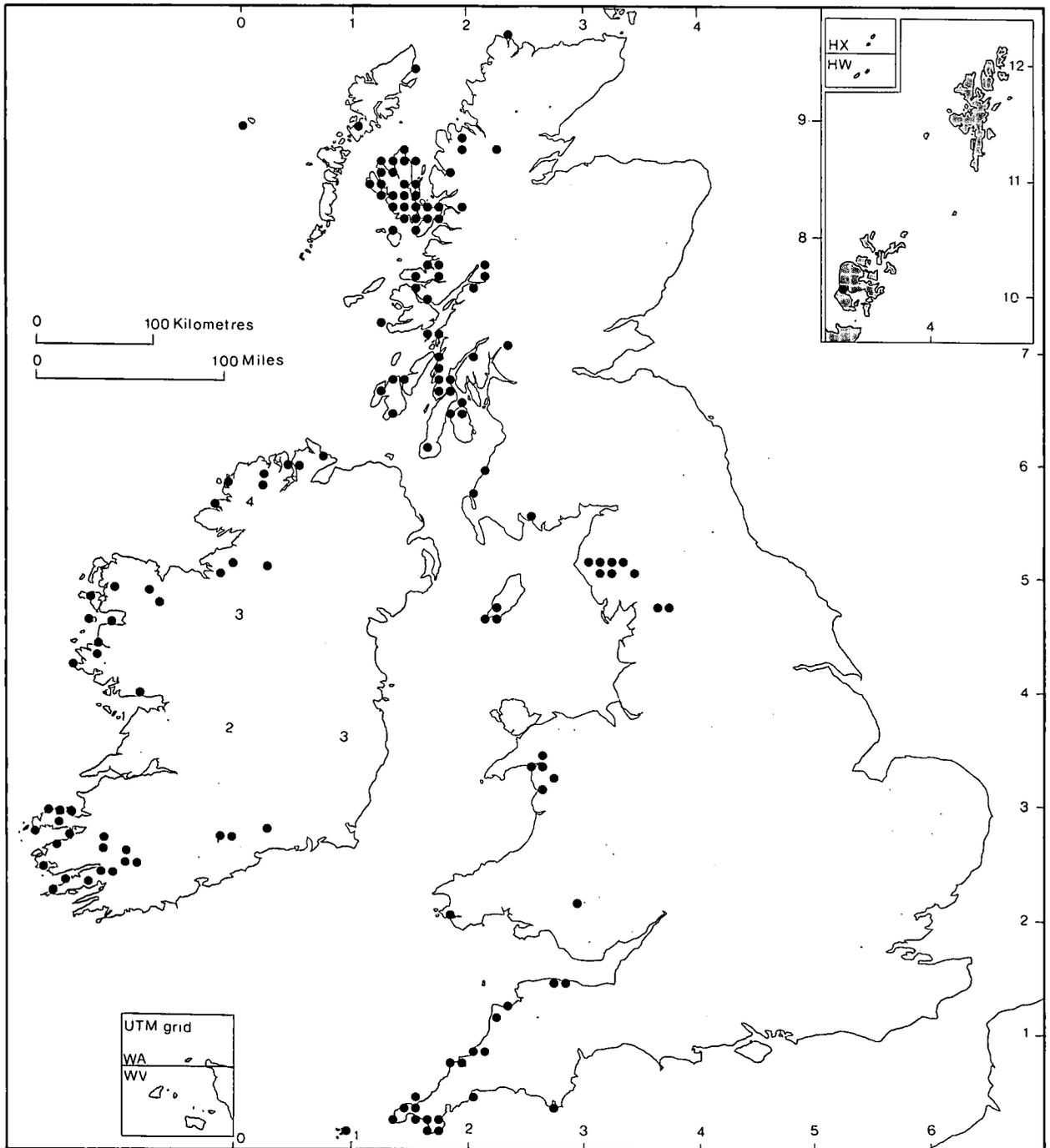
All records ●



82 *Frullania fragilifolia* (Tayl.) Tayl. ex Gottsche, Lindenb. & Nees

Provisional January 1978

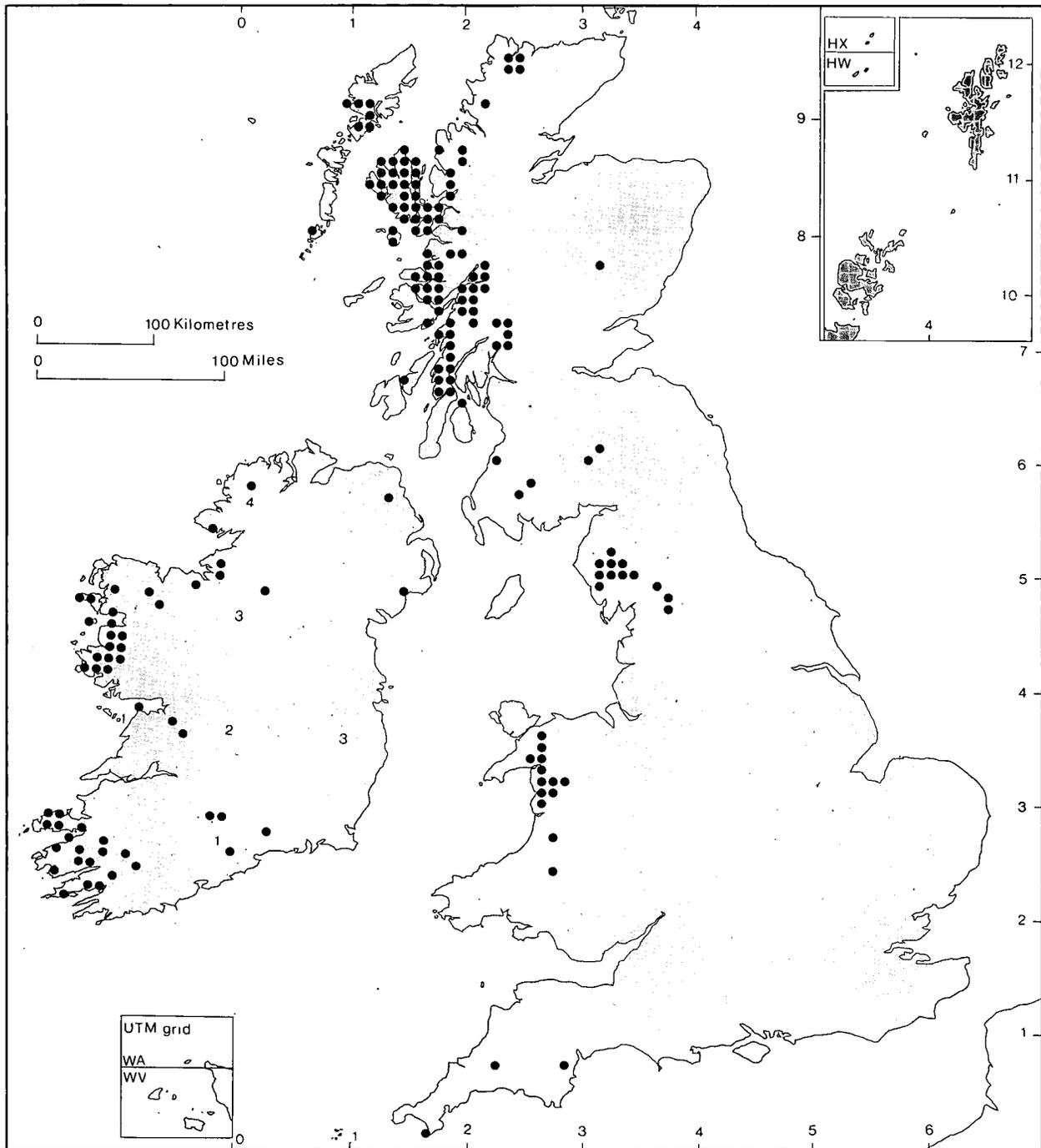
All records ●



83 *Frullania microphylla* (Gottsche) Pears.

Provisional January 1978

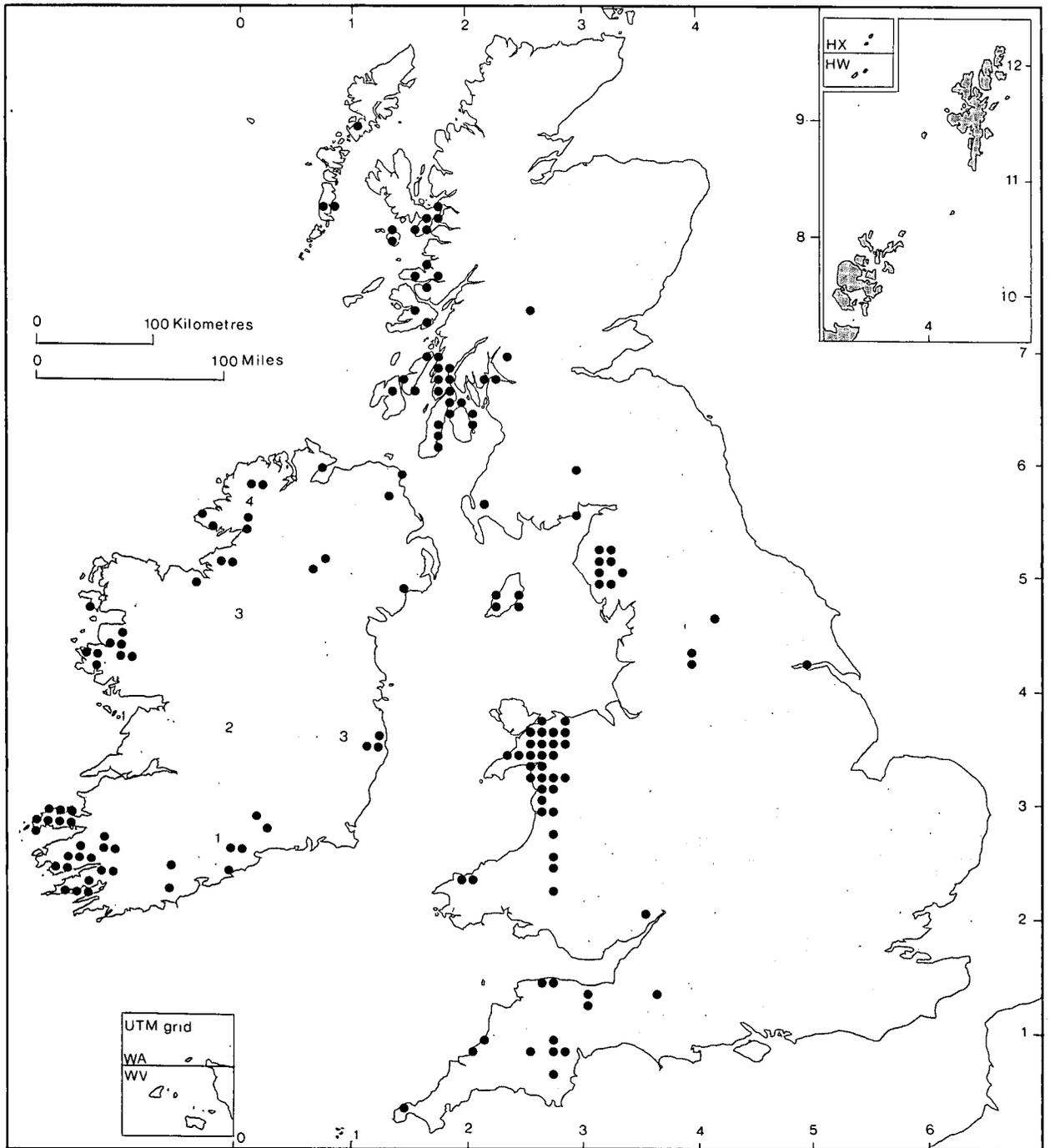
All records ●



84 Harpalejeunea ovata (Hook.) Schiffn.

Provisional January 1978

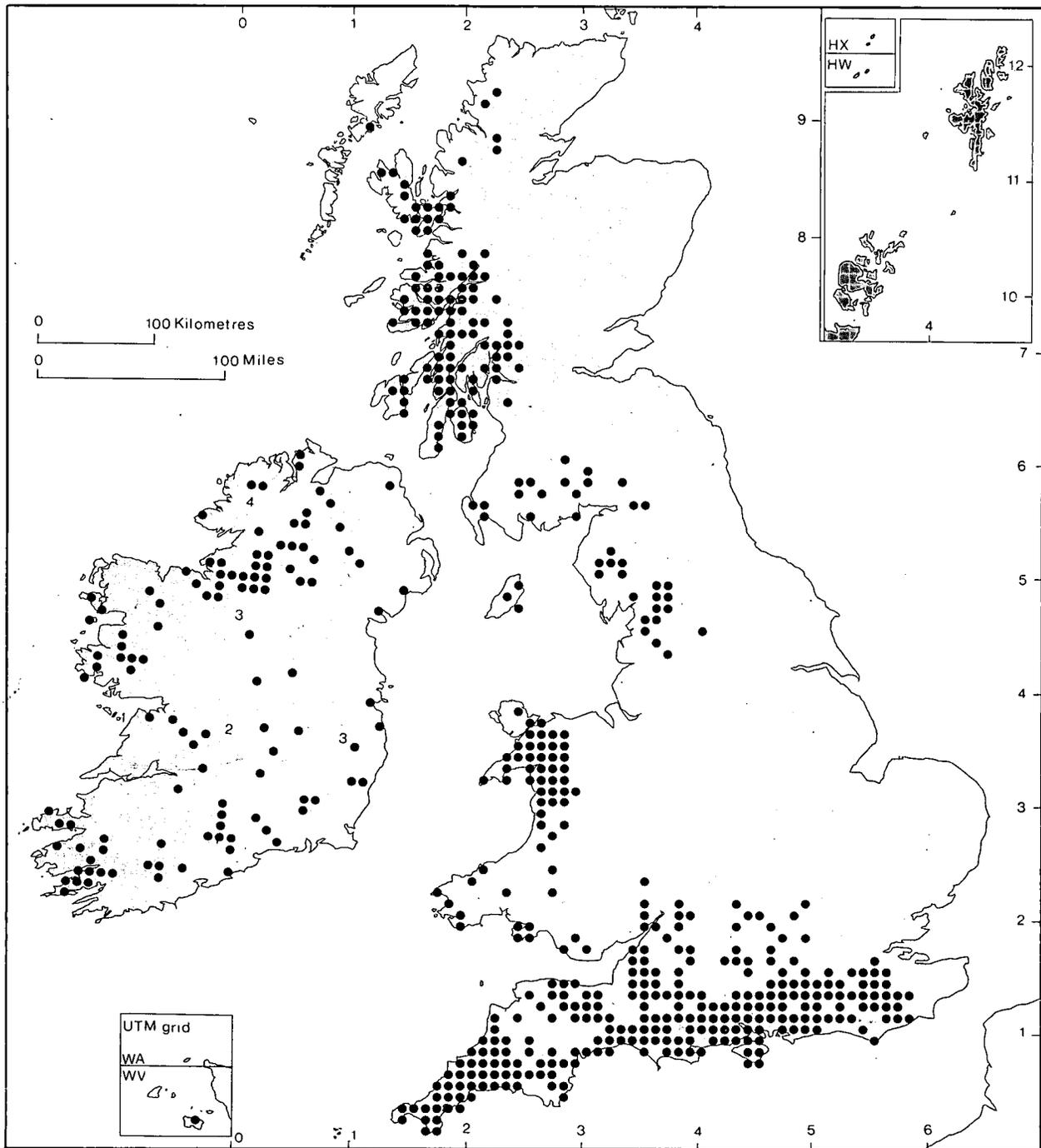
All records ●



85 *Jubula hutchinsiae* (Hook.) Dum.

Provisional January 1978

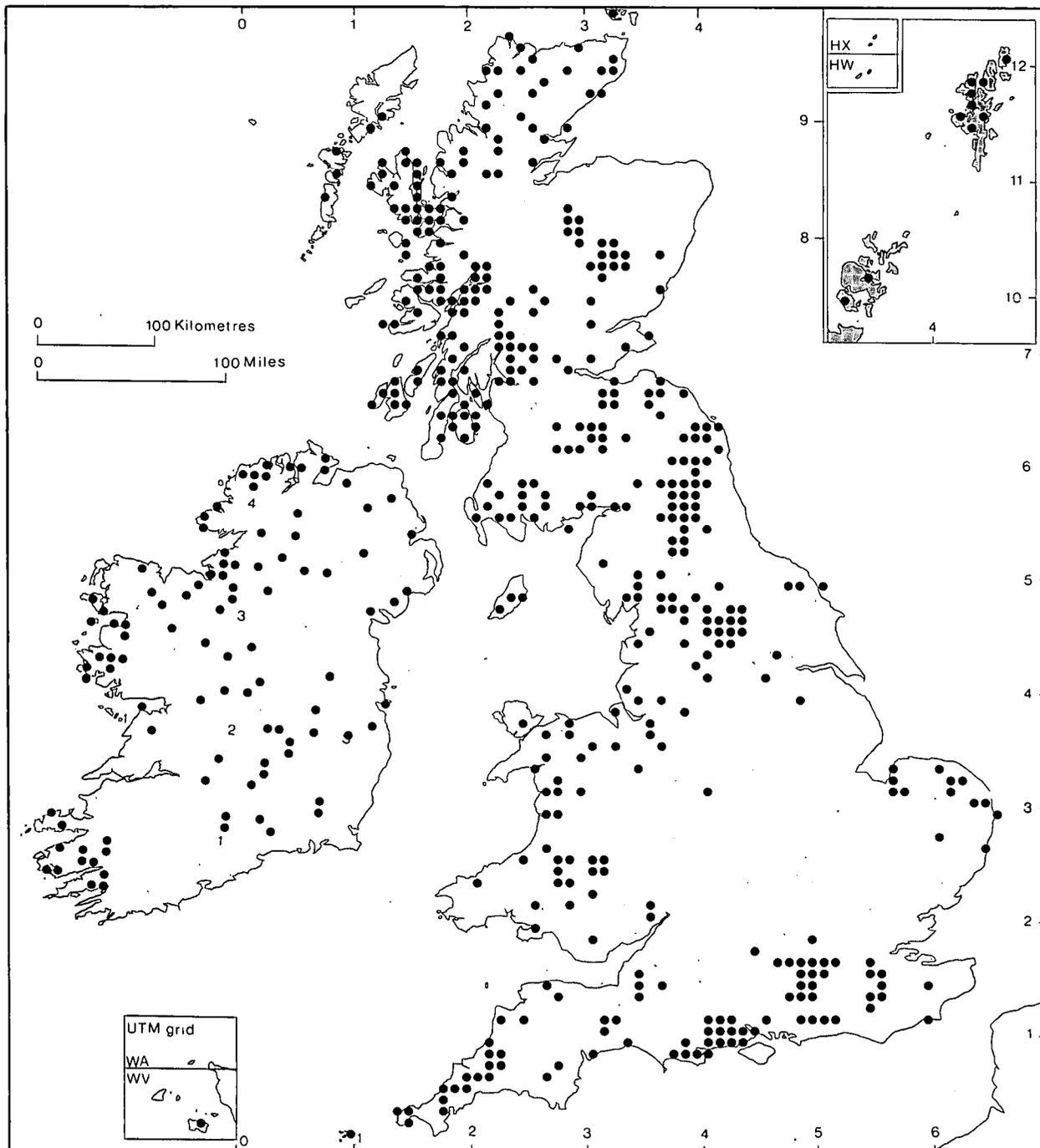
All records ●



86 *Lejeunea ulicina* (Tayl.) Tayl.

Provisional January 1978

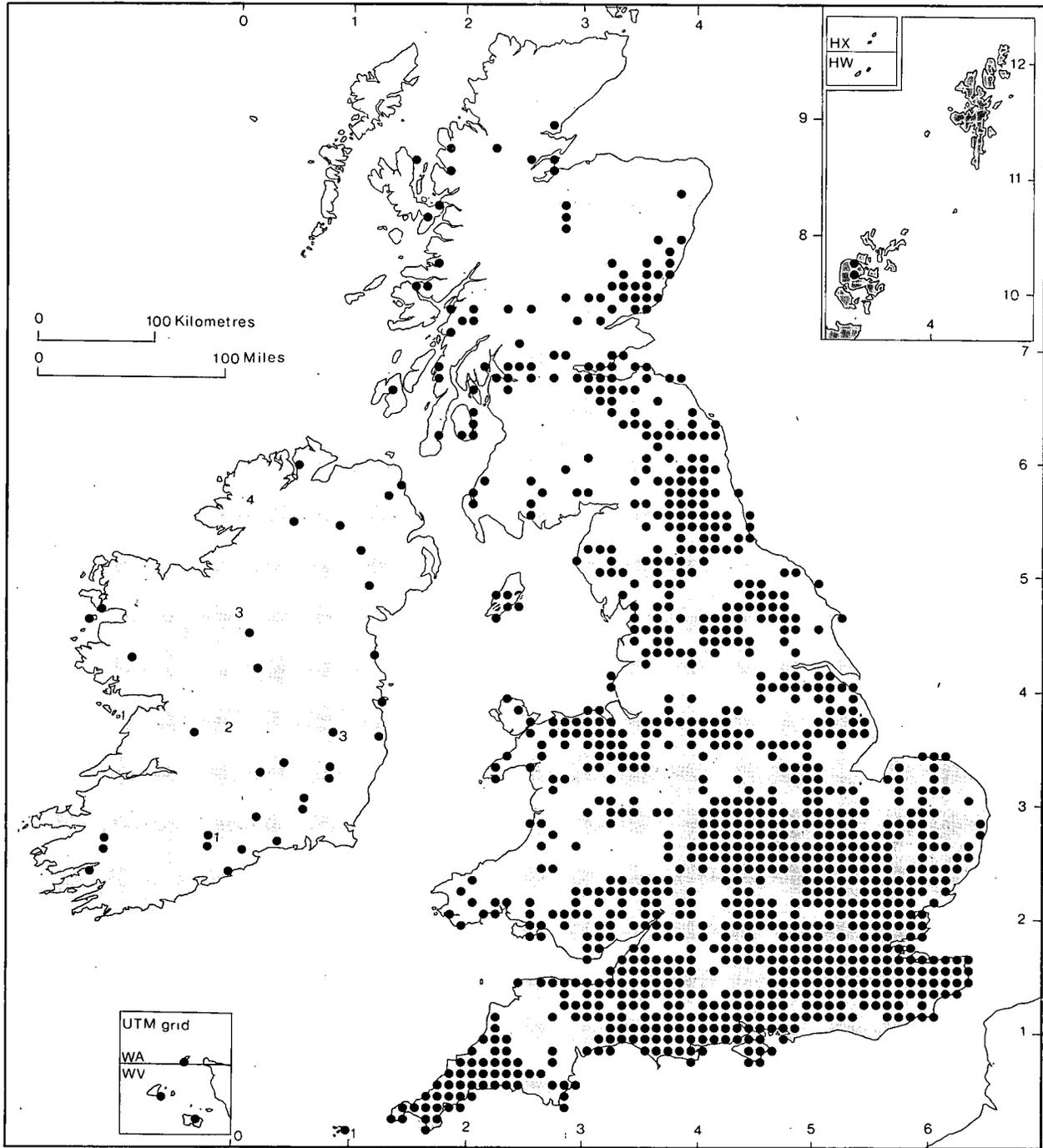
All records ●



87 *Lepidozia setacea* (Web.) Mitt.

Provisional January 1978

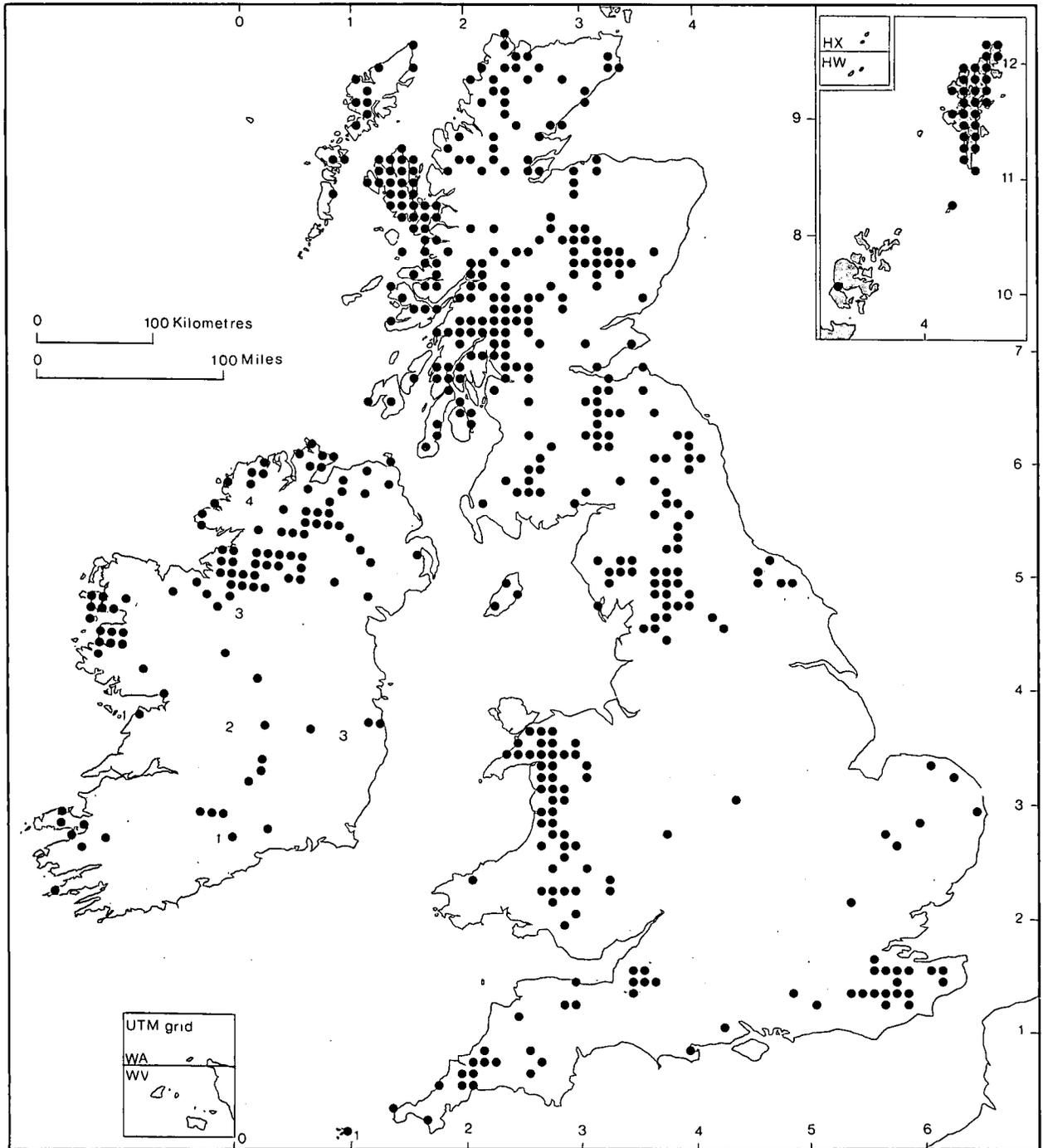
All records ●



88 *Lophocolea heterophylla* (Schrad.) Dum.

Provisional January 1978

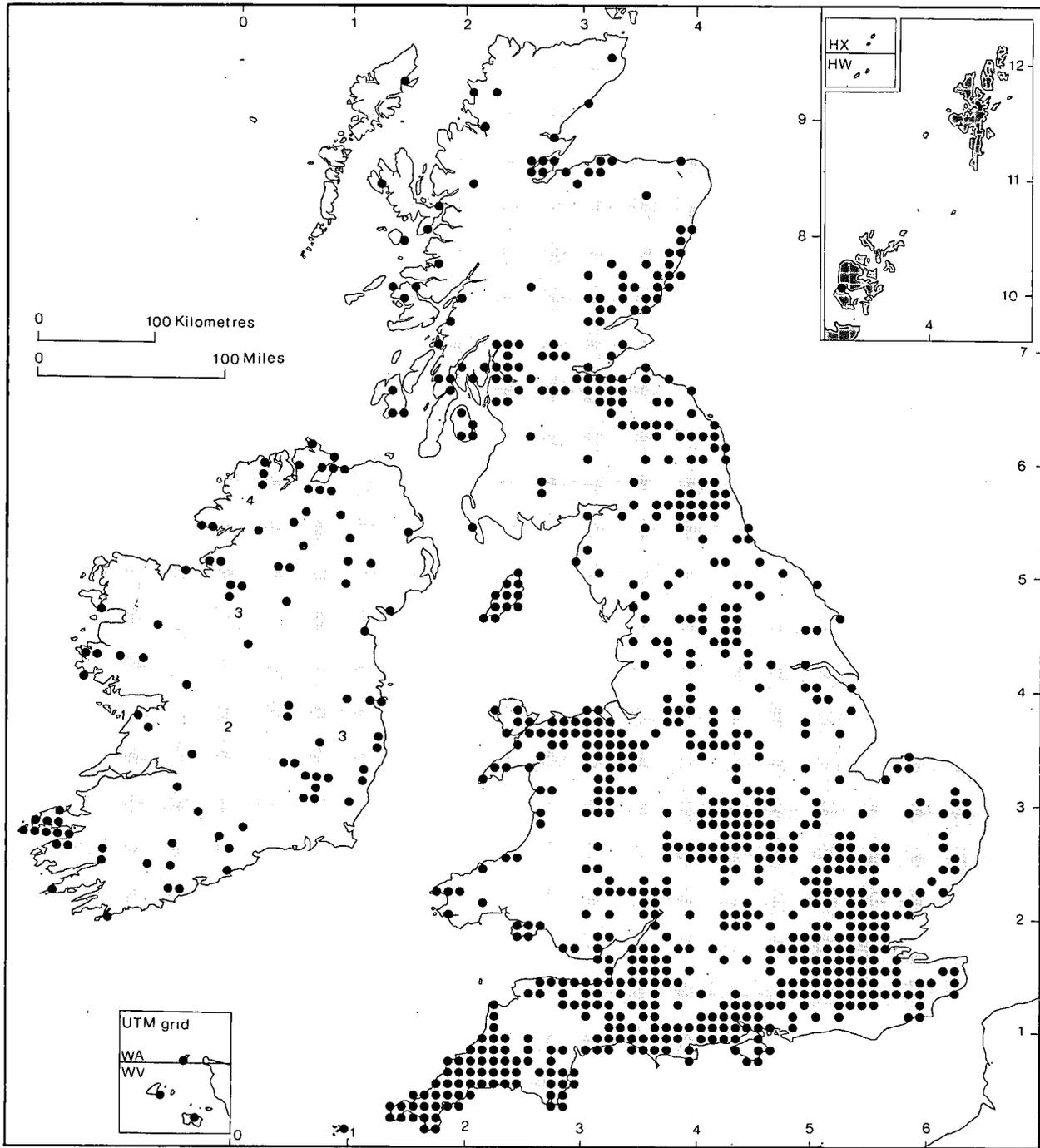
All records ●



89 *Lophocolea incisa* (Schrad.) Dum.

Provisional January 1978

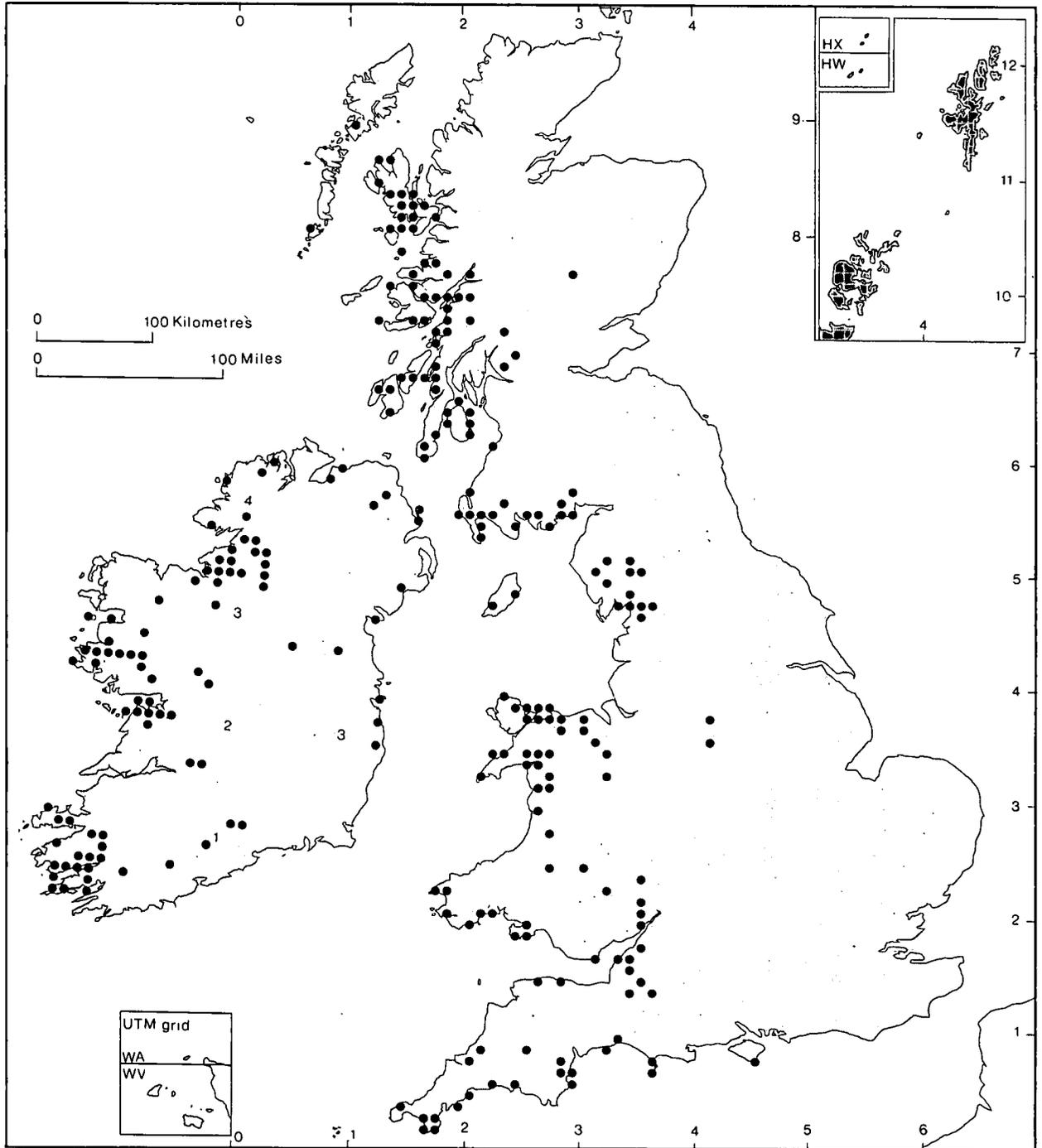
All records ●



90 Lunularia cruciata (L.) Dum.

Provisional January 1978

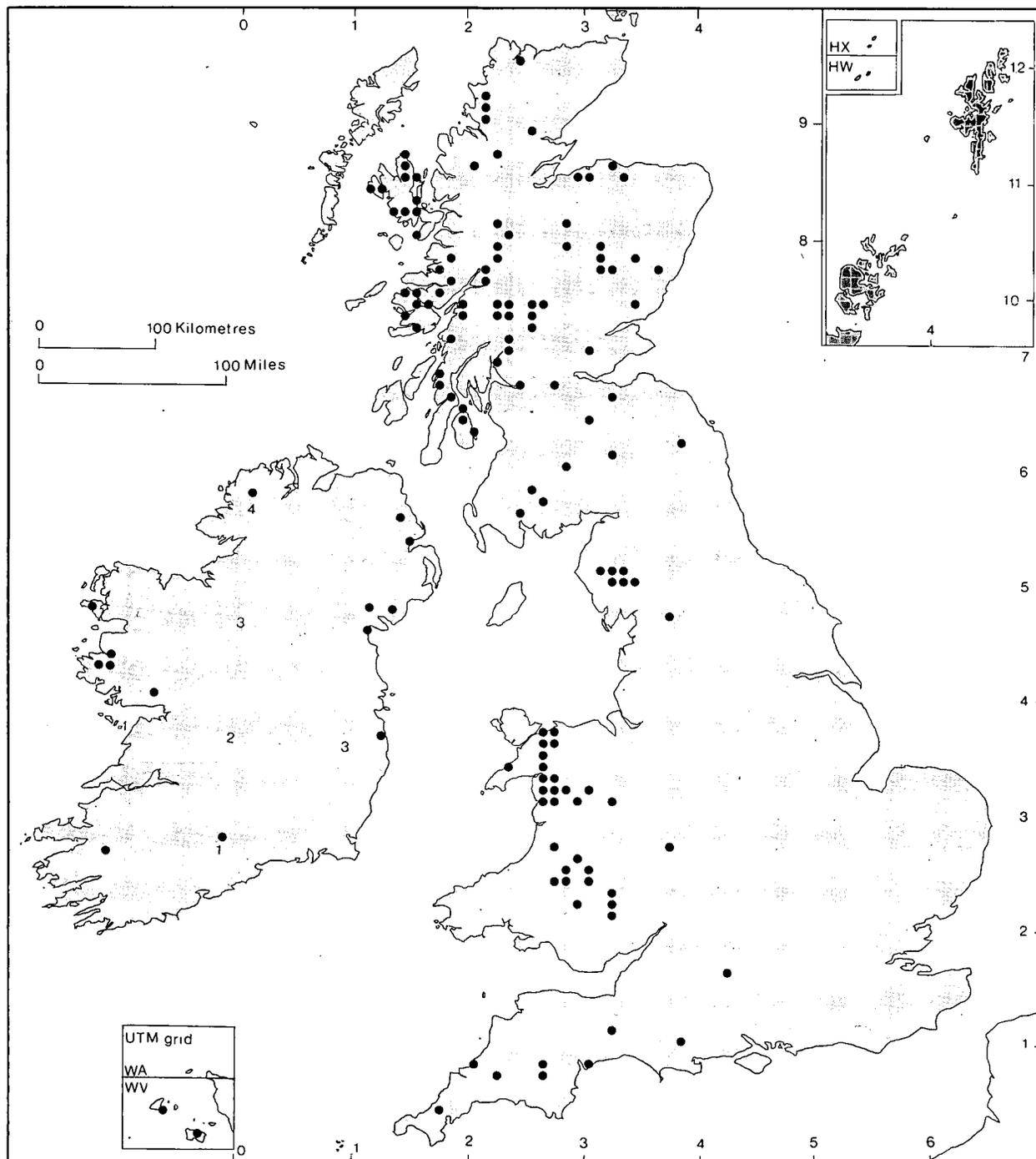
All records ●



91 *Marchesinia mackaii* (Hook.) Gray

Provisional January 1978

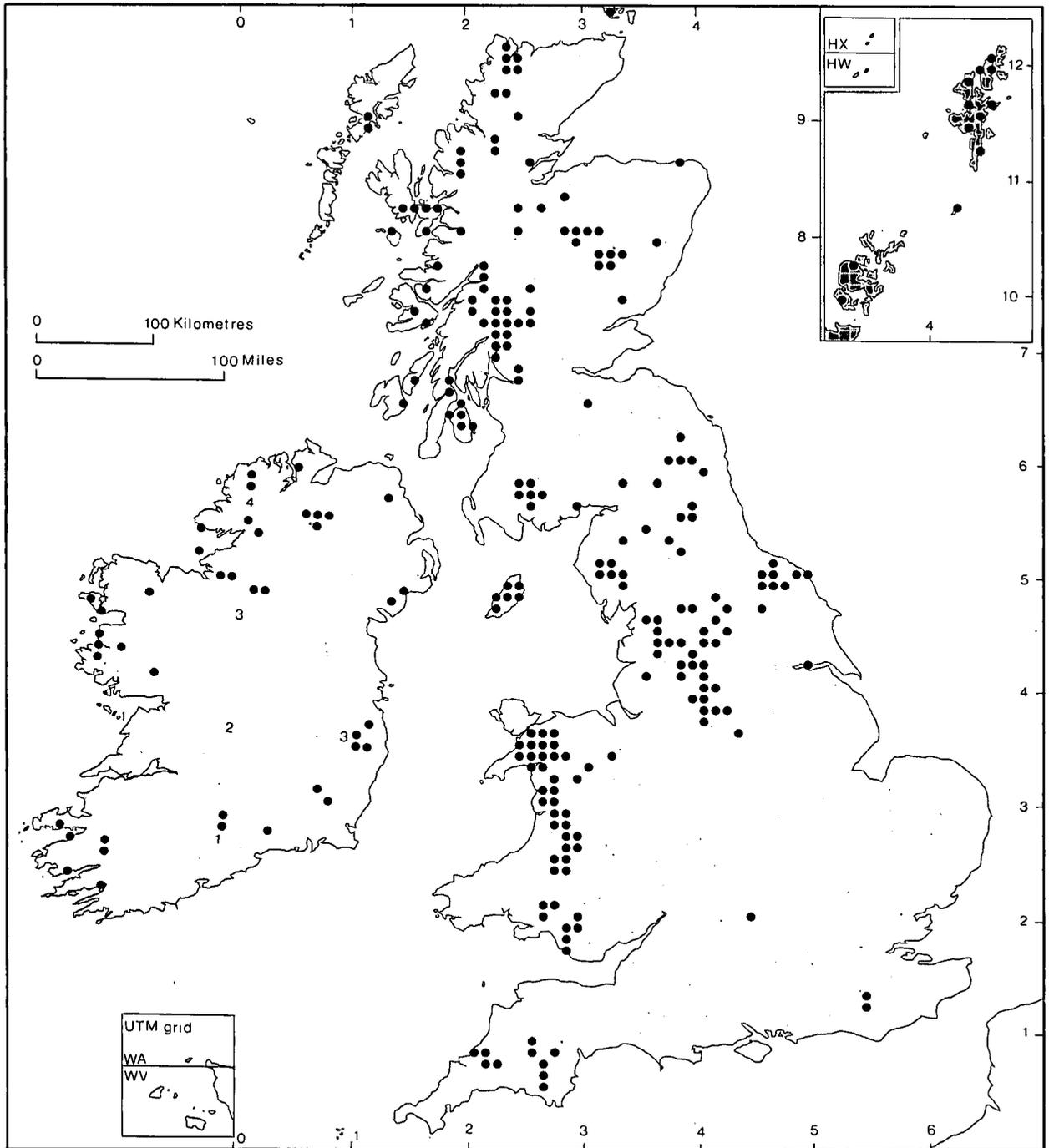
All records ●



92 Marsupella funcckii (Web. & Mohr) Dum.

Provisional January 1978

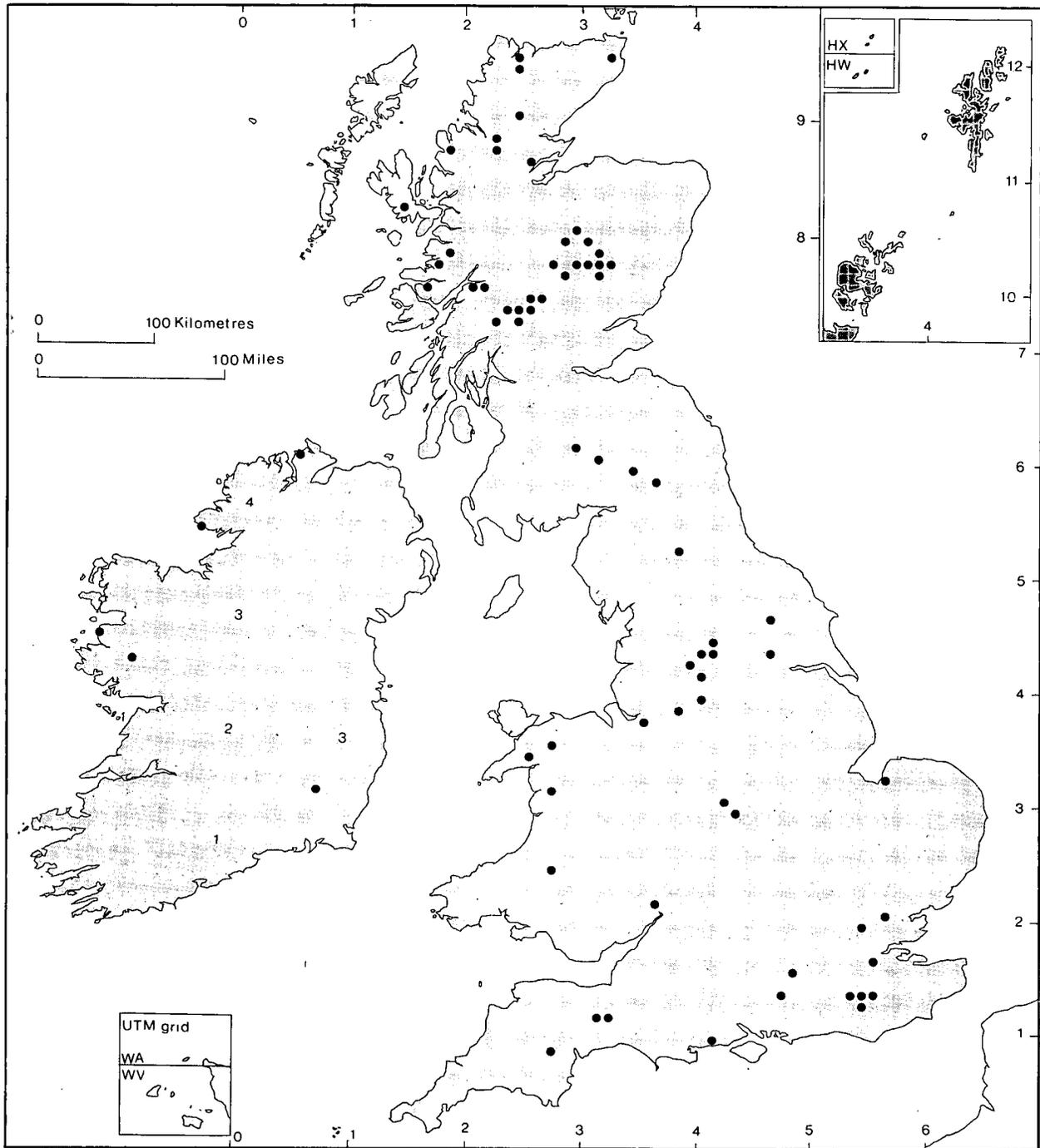
All records ●



93 *Nardia compressa* (Hook.) Gray

Provisional January 1978

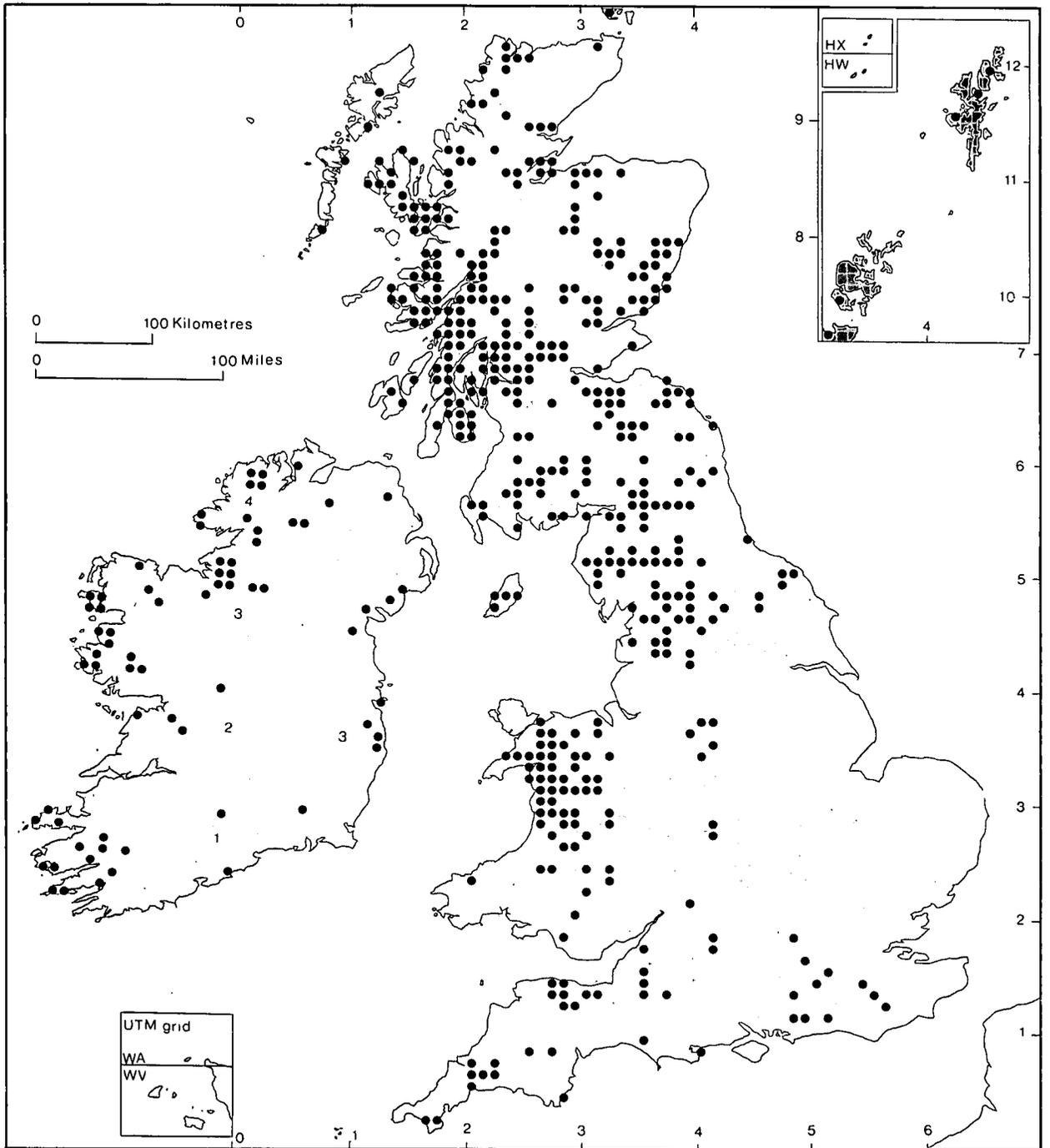
All records ●



94 *Nardia geoscyphus* (De Not.) Lindb.

Provisional January 1978

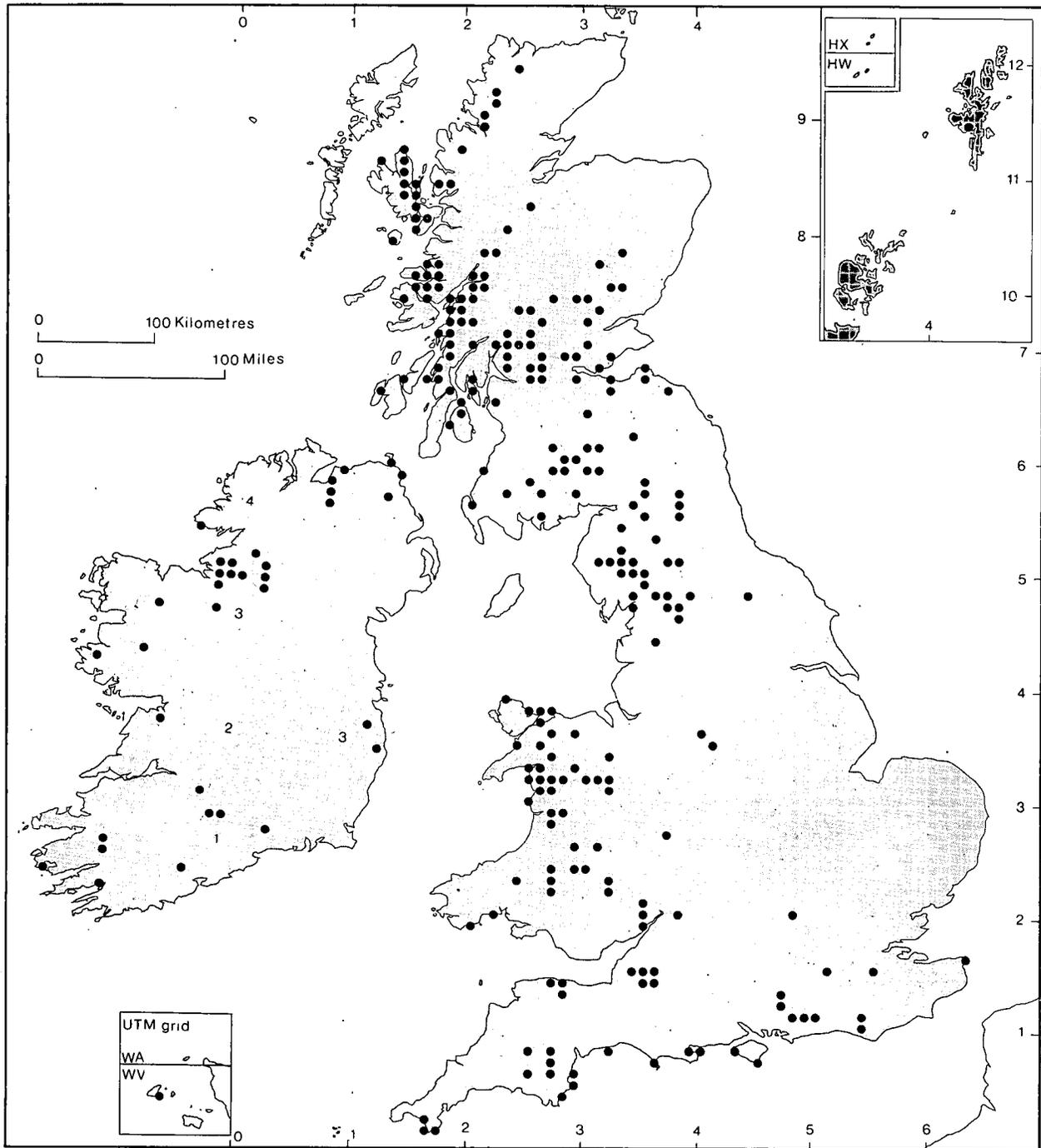
All records ●



95 *Nowellia curvifolia* (Dicks.) Mitt.

Provisional January 1978

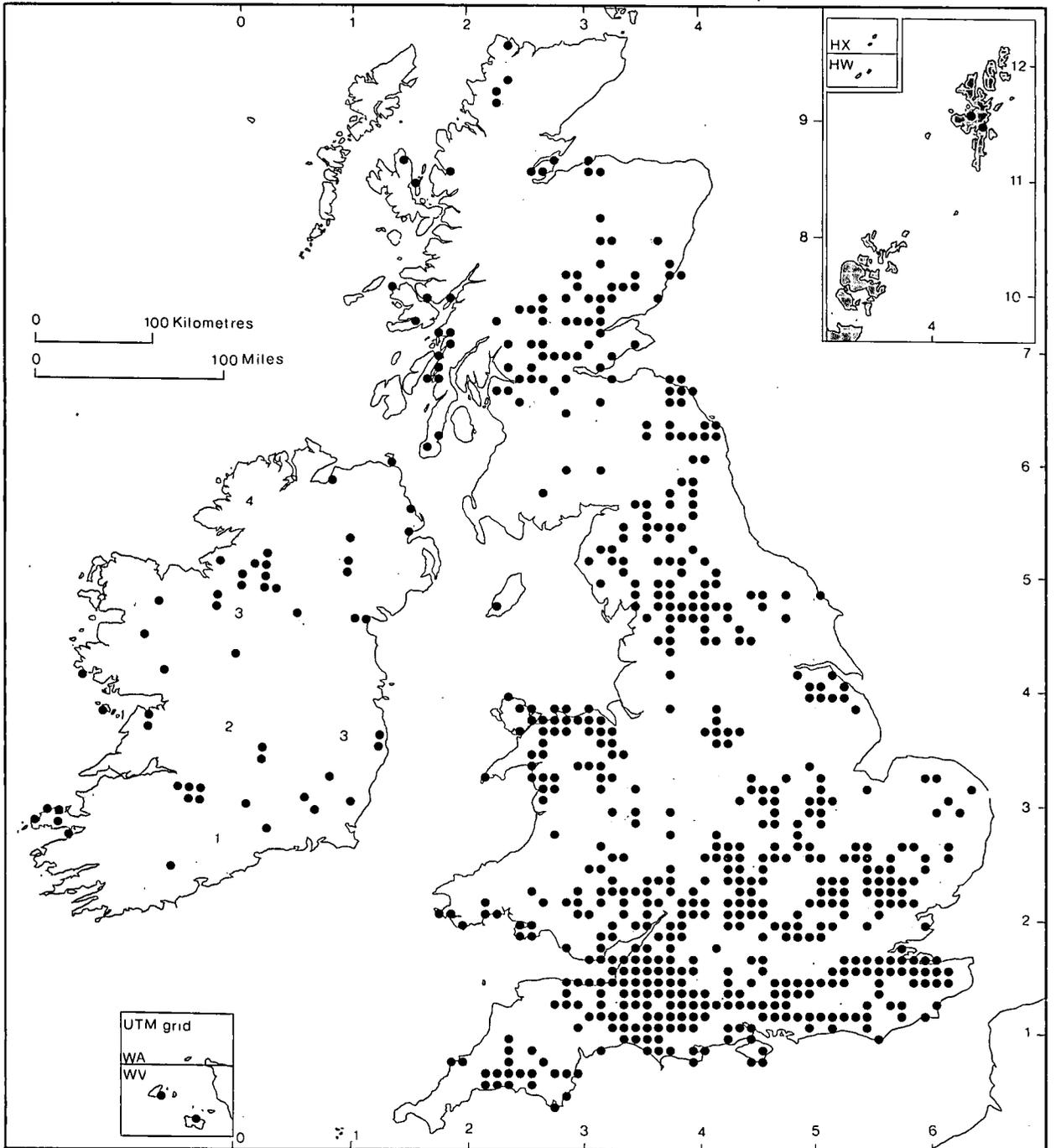
All records ●



96 Porella laevigata (Schrad.) Lindb.

Provisional January 1978

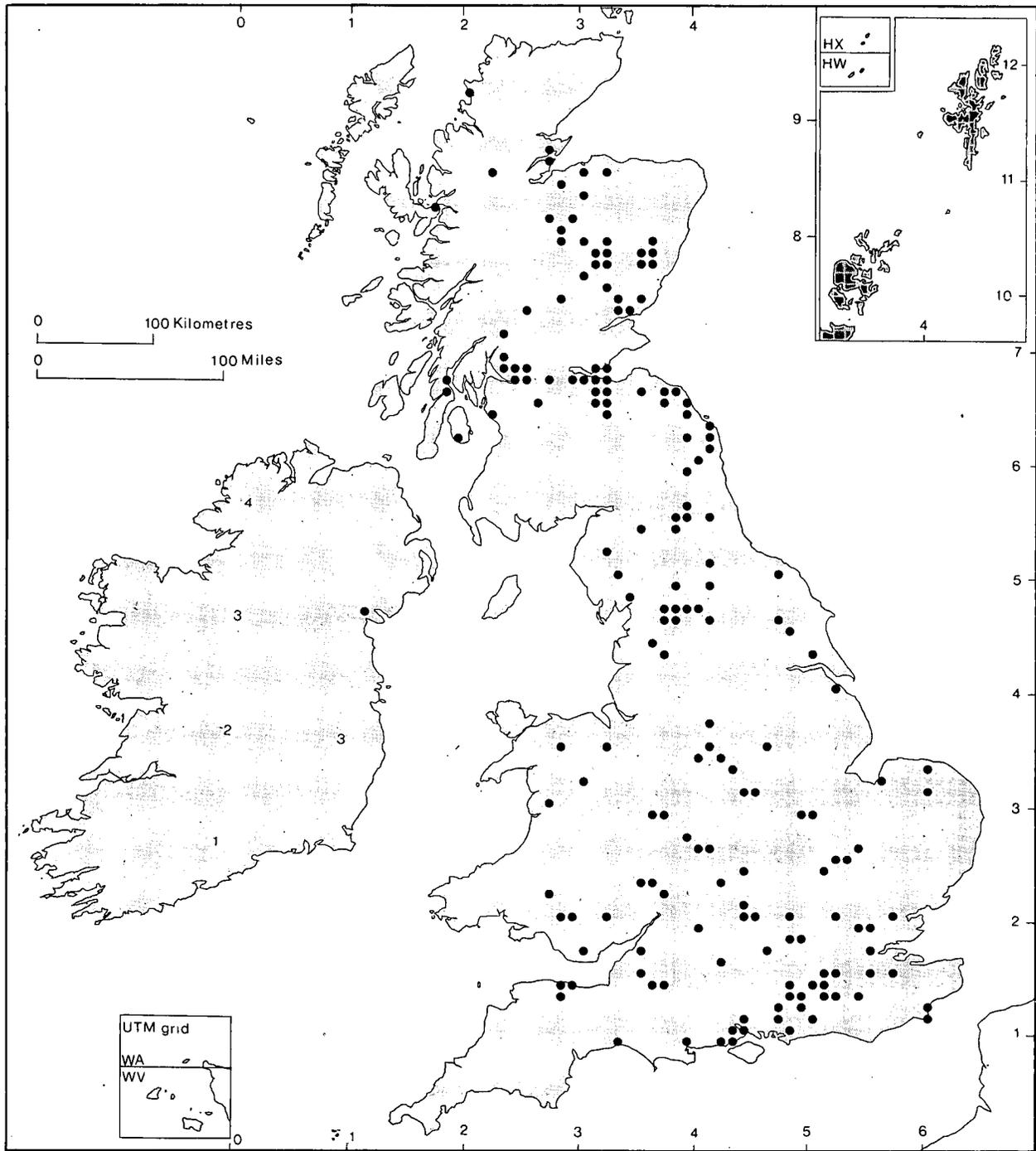
All records ●



97 *Porella platyphylla* (L.) Lindb.

Provisional January 1978

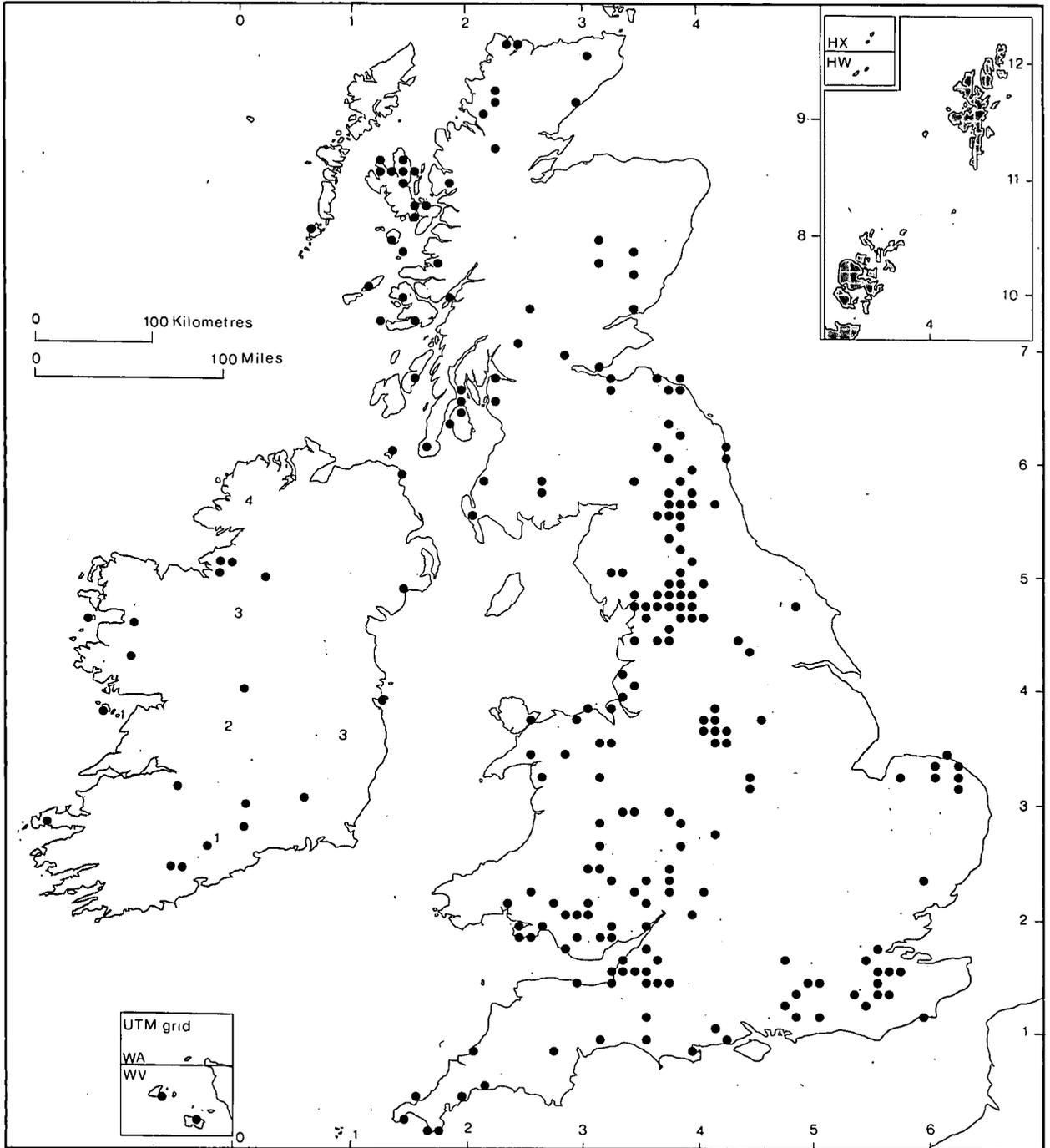
All records ●



98 Ptilidium pulcherrimum (Web.) Hampe

Provisional January 1978

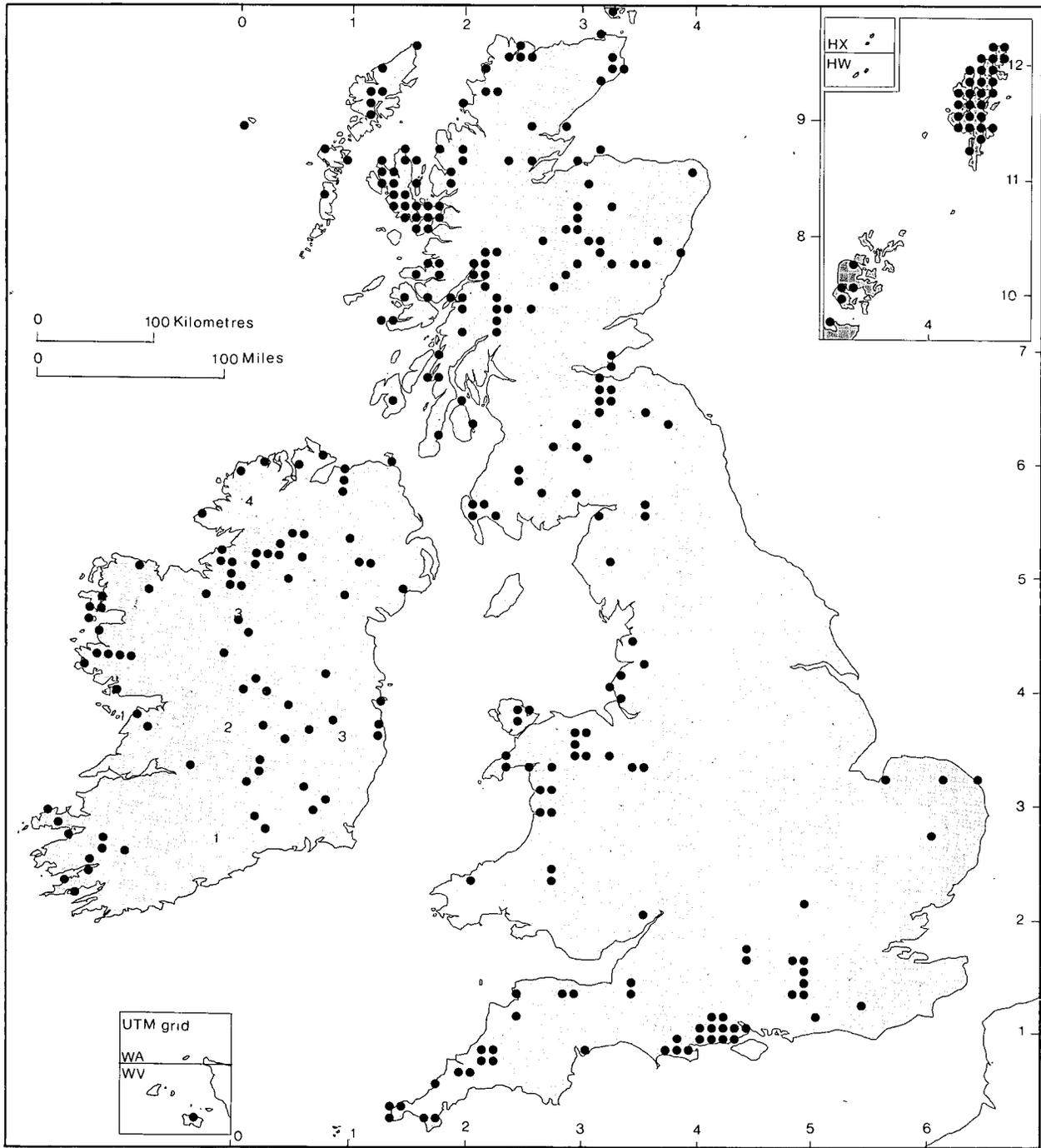
All records ●



99 *Reboulia hemisphaerica* (L.) Raddi.

Provisional January 1978

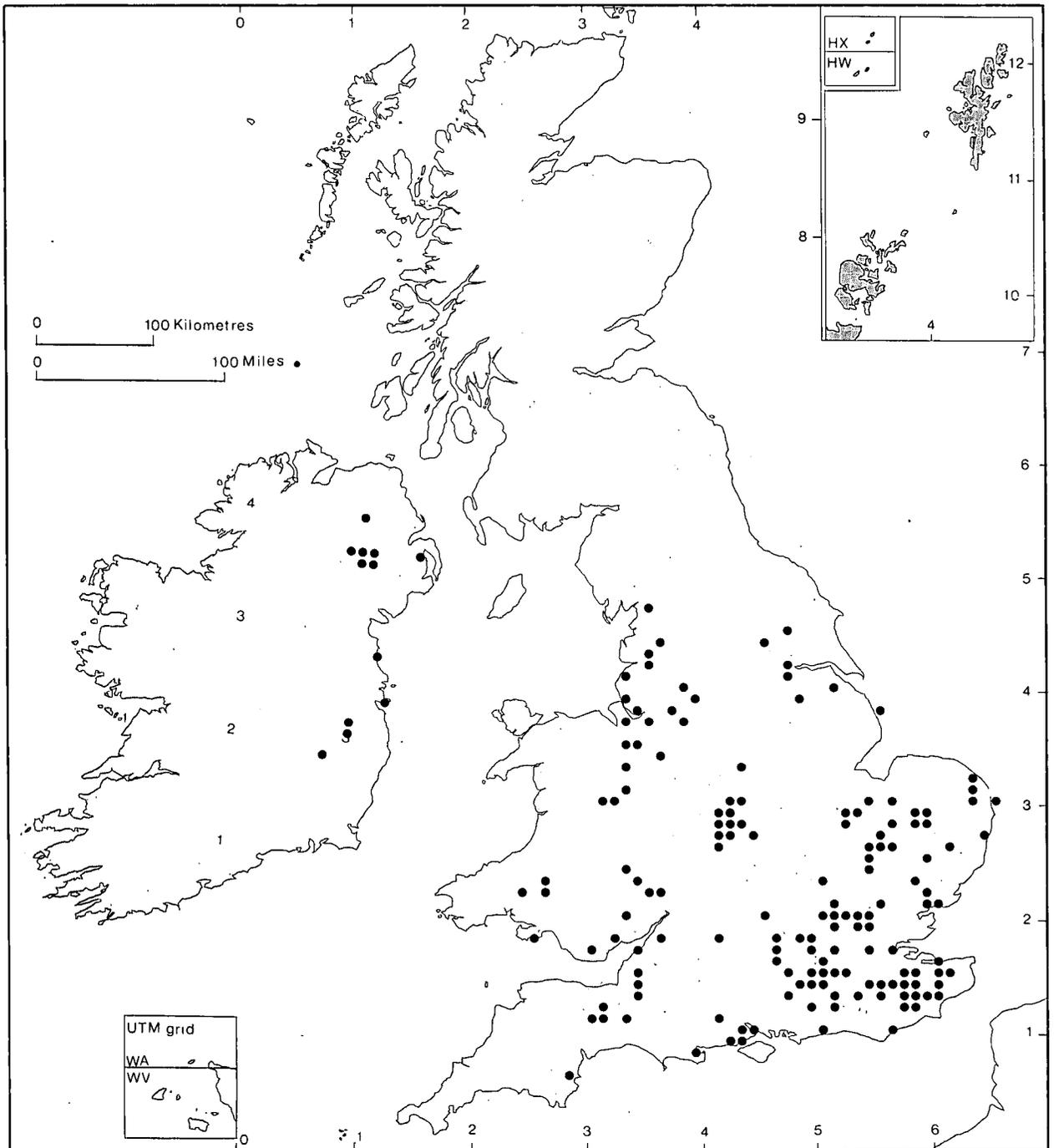
All records ●



100 *Riccardia latifrons* (Lindb.) Lindb.

Provisional January 1978

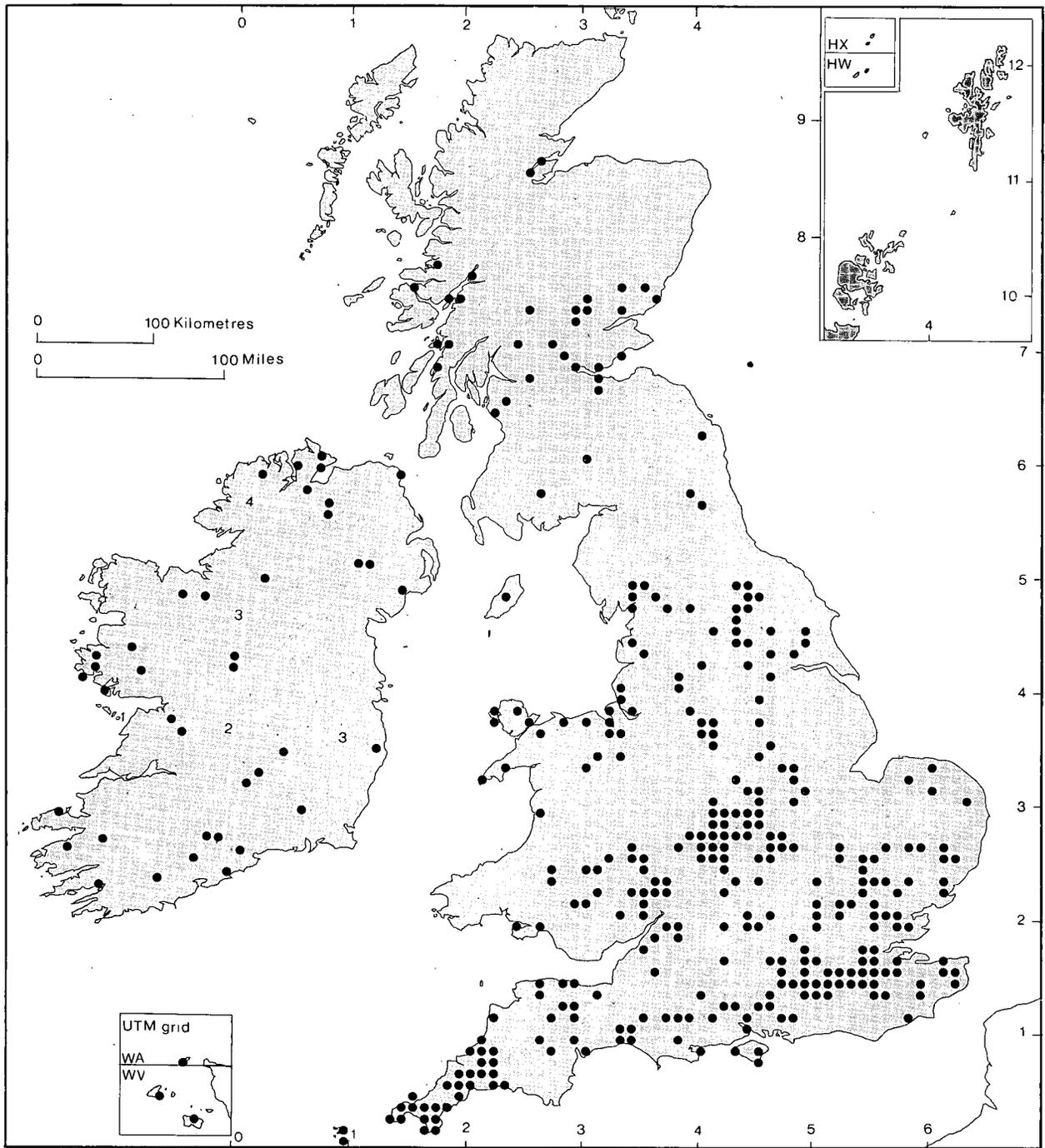
All records ●



101 Riccia fluitans L.

Provisional January 1978

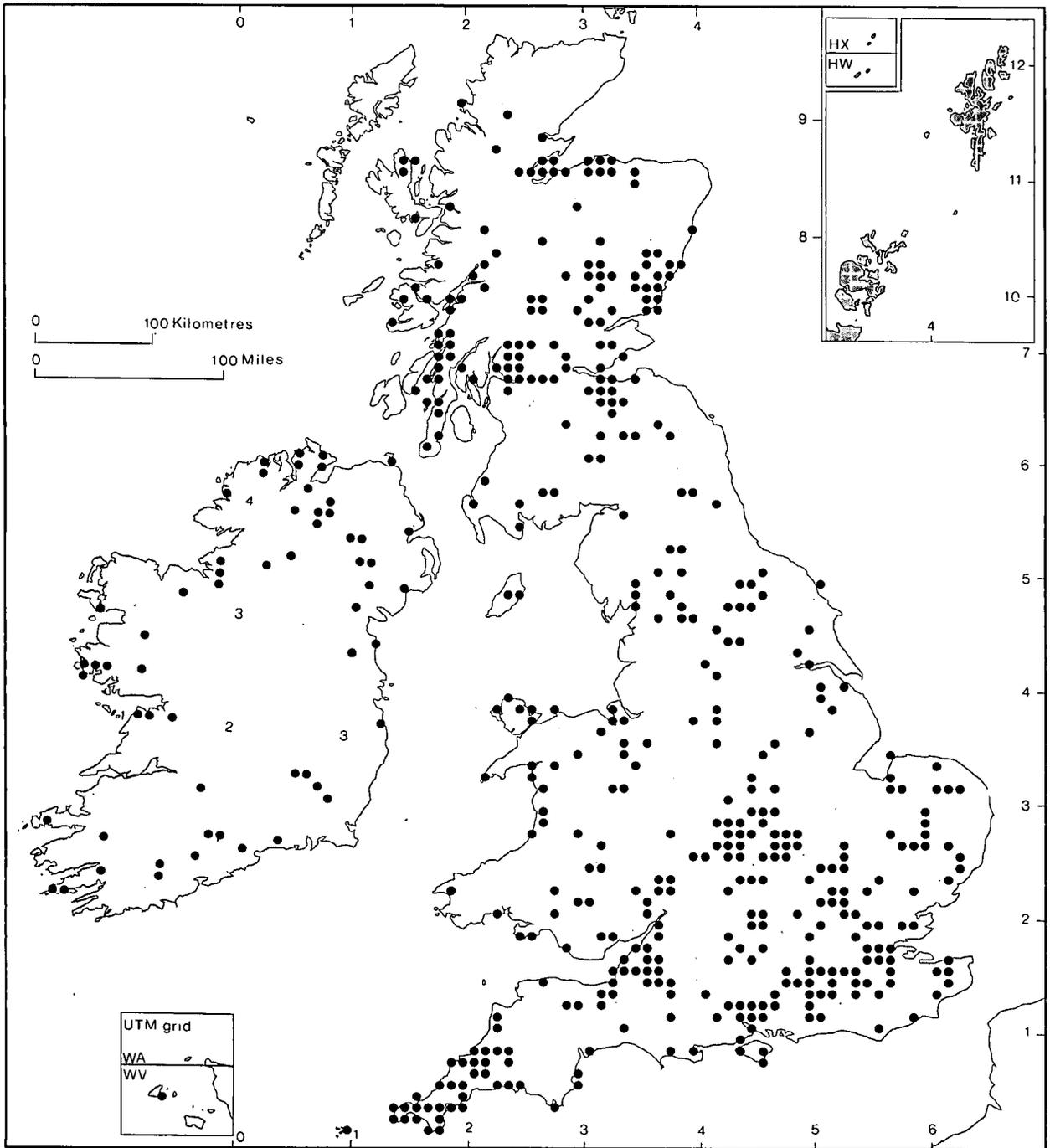
All records ●



102 Riccia glauca L.

Provisional January 1978

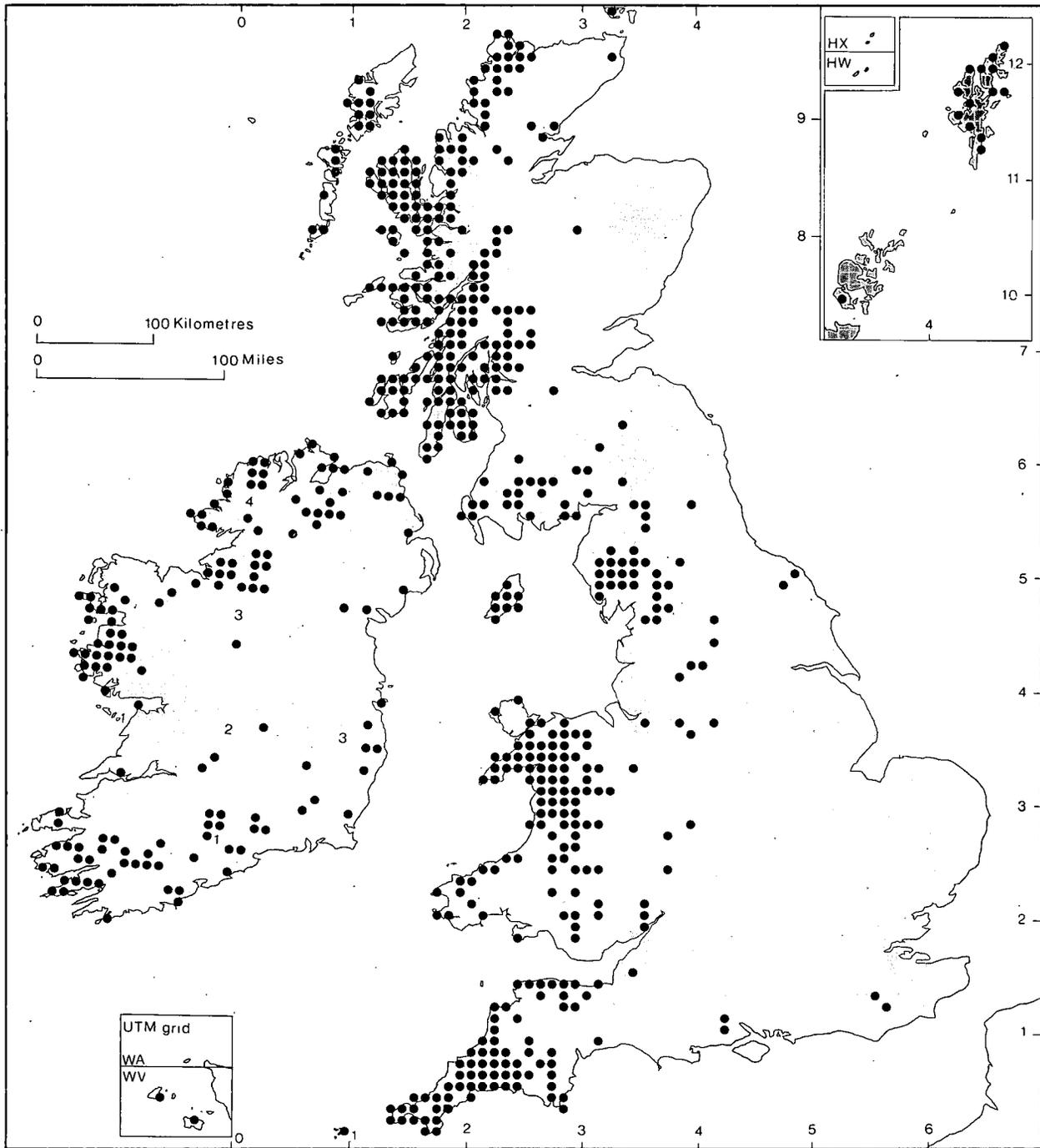
All records ●



103 Riccia sorocarpa Bisch.

Provisional January 1978

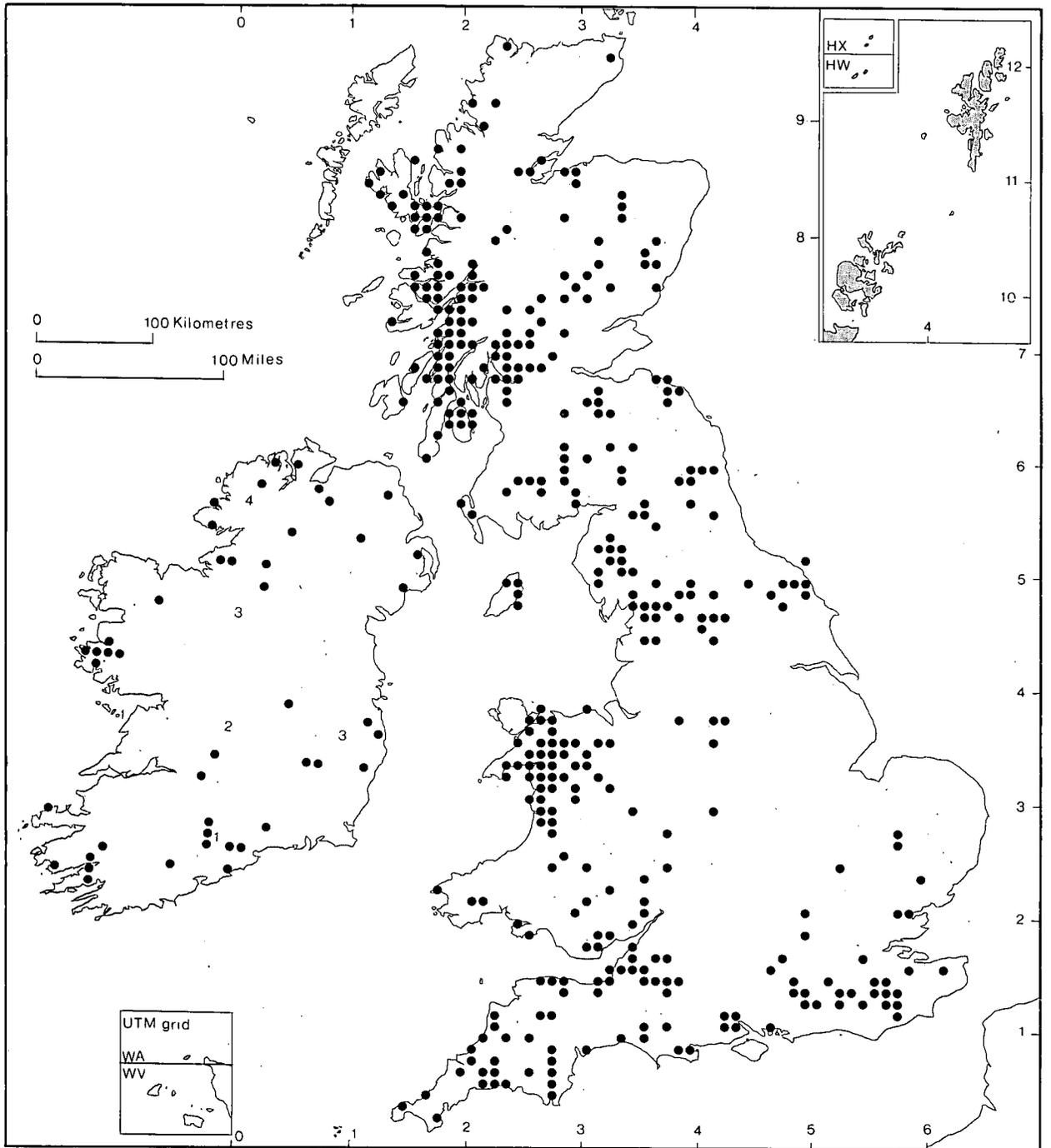
All records ●



104 *Saccogyna viticulosa* (L.) Dum.

Provisional January 1978

All records ●



105 Trichocolea tomentella

Provisional January 1978

All records ●

SYNONYMS

Camptothecium nitens (Hedw.) Schimp. – *Homalothecium nitens*
Dicranum strictum Schleich. ex Schwaegr. – *Dicranum tauricum*
Eurhynchium megapolitanum (Bland.) Midle. – *Rhynchostegium megapolitanum*
Eurhynchium murale (Hedw.) Milde – *Rhynchostegium murale*
Grimmia maritima Turn. – *Schistidium maritimum*
Isopterygium seligeri (Brid.) Dix. ex C. Jens. – *Herzogiella seligeri*
Polytrichum nanum Hedw. – *Pogonatum nanum*
Scleropodium caespitosum (Wils.) Br. Eur. – *S. cespitans*
Trichostomum sinuosum (Mitt.) Lindb. ex Herzog. – *Oxystegus sinuosus*
Tortula ruraliformis (Besch.) Rich. & Wall. – *T. ruralis* ssp. *ruraliformis*
Weissia crispa (Hedw.) Mitt. – *W. longifolia*

