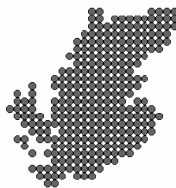


***Highland Bumblebees:
Distribution, Ecology and
Conservation***

Supplement 2, December 2007

Murdo Macdonald



Highland
Biological
Recording
Group

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Introduction

The Highland Biological Recording Group published *Highland Bumblebees: Distribution, Ecology and Conservation* on 1 March 2006. A first supplement was published on the HBRG website in November 2006. This second supplement provides an update in the light of discoveries made in 2007.

Gill Nisbet, co-author of *Highland Bumblebees*, died on 30 August 2006.

Erratum

The outline of the island of Canna was inadvertently omitted from the maps in the original work. It has been included in the maps here.

Update

Phenology

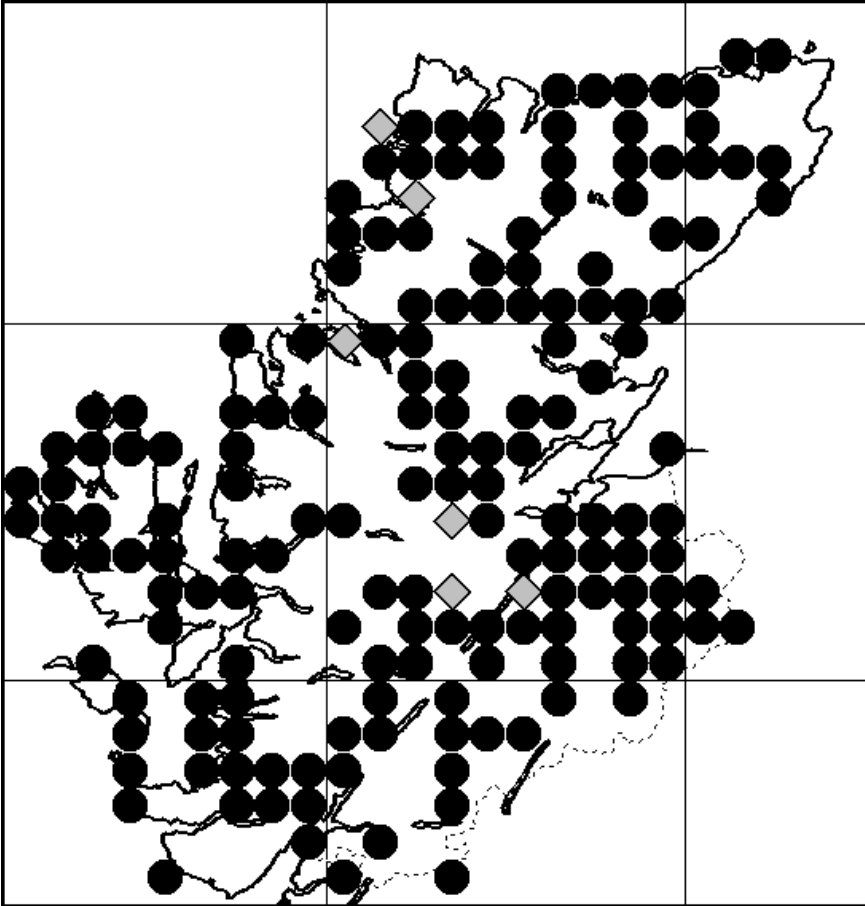
A very late *Bombus pascuorum* was seen in Inverness on 4 November.

Maps

New records of the following species have prompted revision of the maps. Significant additional information is indicated only in *B. lucorum*, *B. monticola* and *B. lapidarius*. Records added since the original publication are shown on the maps by grey diamond symbols.

Species	original page
<i>Bombus soroeensis</i>	p17
<i>B. magnus</i>	p21
<i>B. lucorum</i>	p22
<i>B. terrestris</i>	p25
<i>B. monticola</i>	p29
<i>B. pratorum</i>	p31
<i>B. lapidarius</i>	p33
<i>B. muscorum</i>	p37
<i>B. bohemicus</i>	p43
<i>B. sylvestris</i>	p45

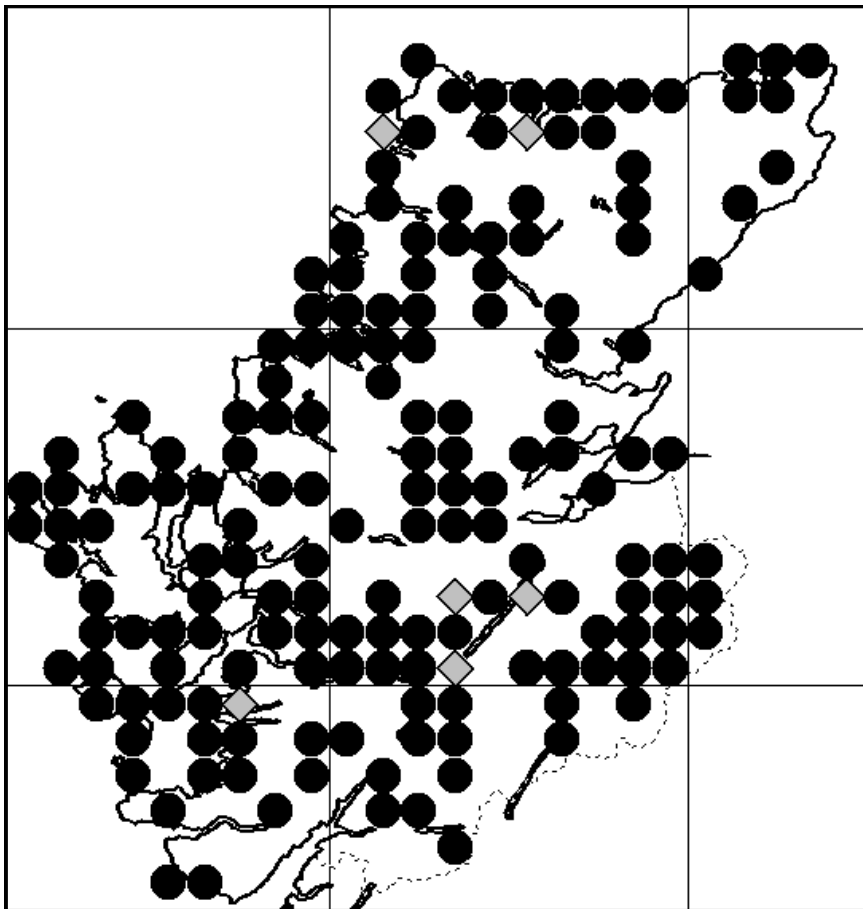
Updated maps for *B. jonellus*, *B. pascuorum* and *B. distinguendus* were included in the first supplement, but no additional changes were made in 2007.



Bombus soroensis

Broken-belted Bumblebee

2006: Two additional squares in NW Sutherland.
2007: Four additional squares within the core range.

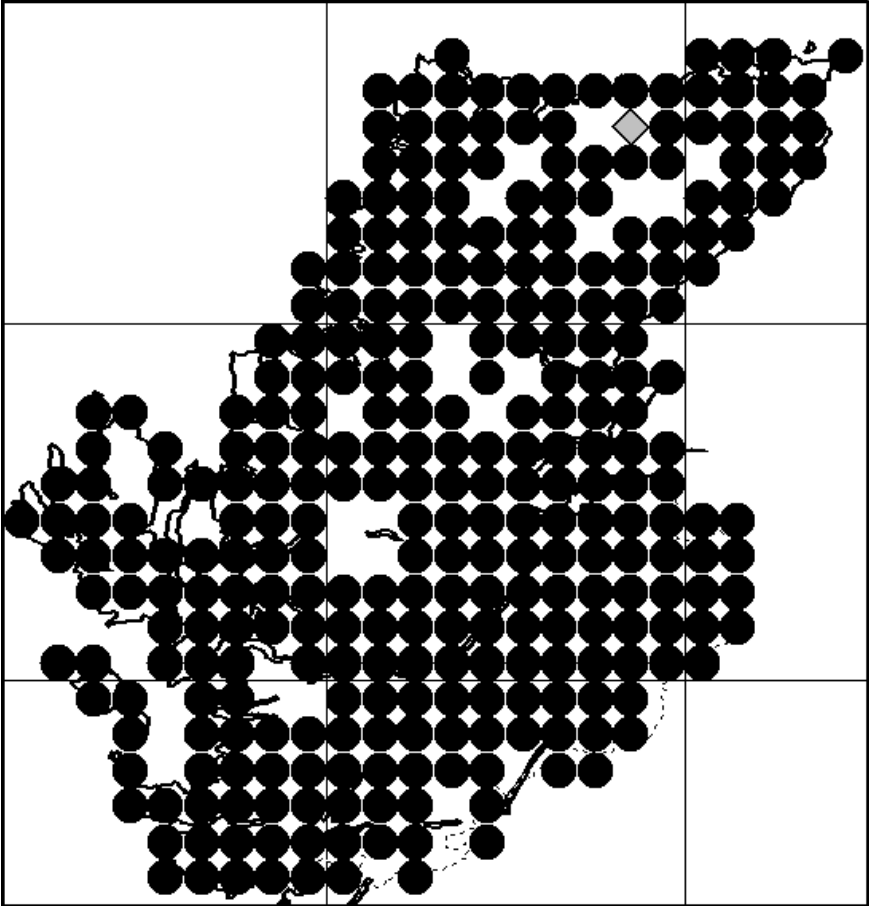


Bombus magnus

Northern White-tailed Bumblebee

2006: One additional square in NW Sutherland.

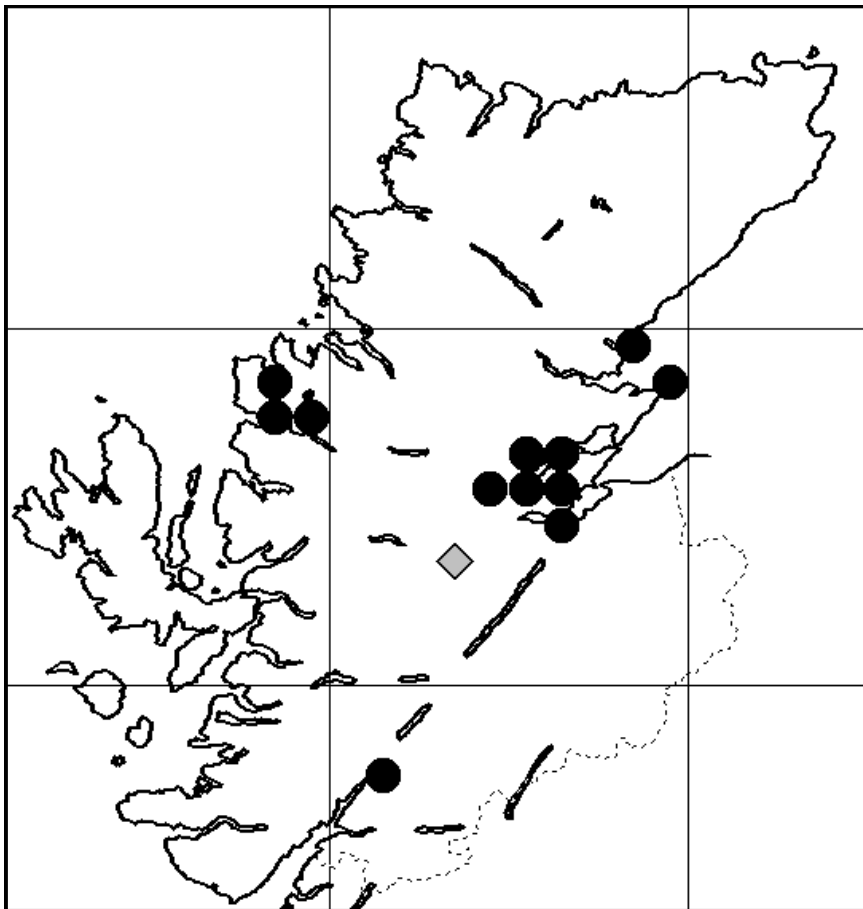
2007: Five additional squares within the core range.



Bombus lucorum s.l.

White-tailed Bumblebee

2007: One additional squares in N Sutherland.

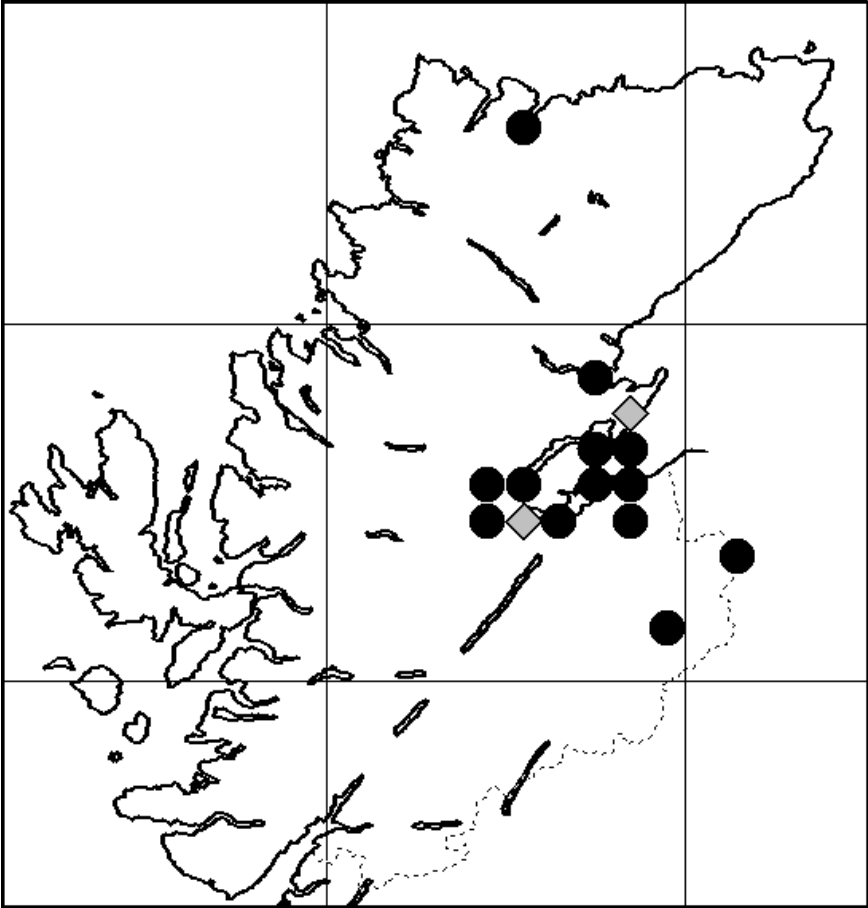


***Bombus lucorum* s.s.**

White-tailed Bumblebee

2007: One additional square in mid-Inverness-shire.

The recognition of the *lucorum/cryptarum/magnus* group remains problematic.

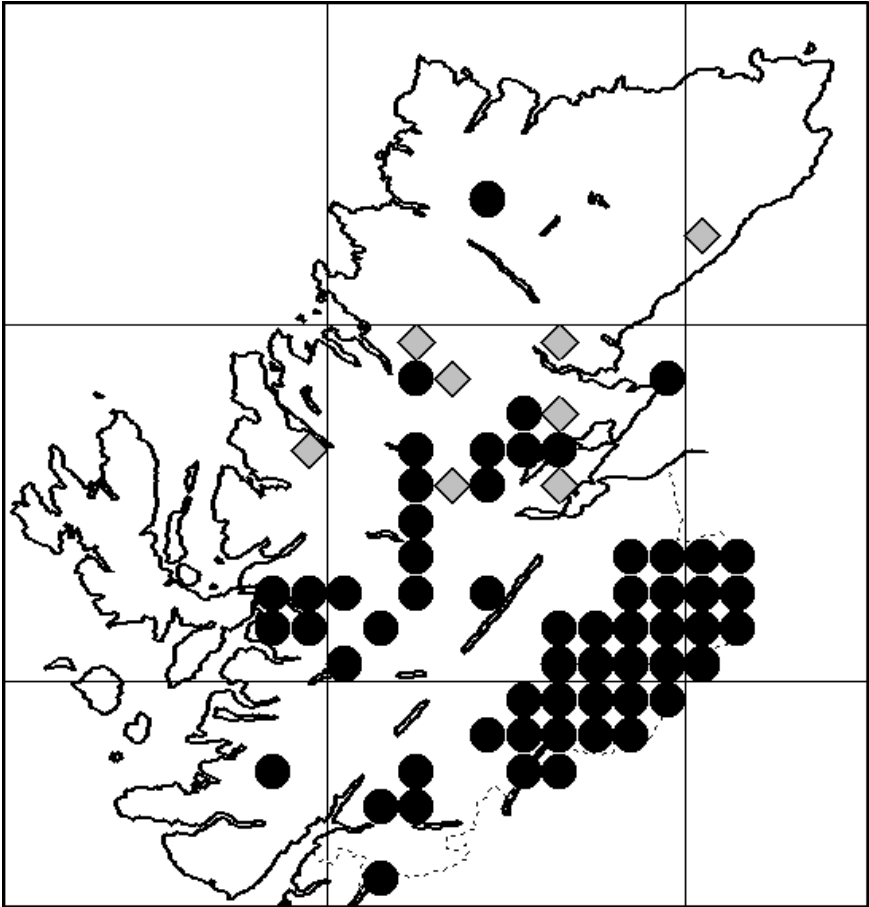


Bombus terrestris

Buff-tailed Bumblebee

2006: One additional square, within the previous known range in E Ross where it is well established.

2007: Another square similarly near Inverness.

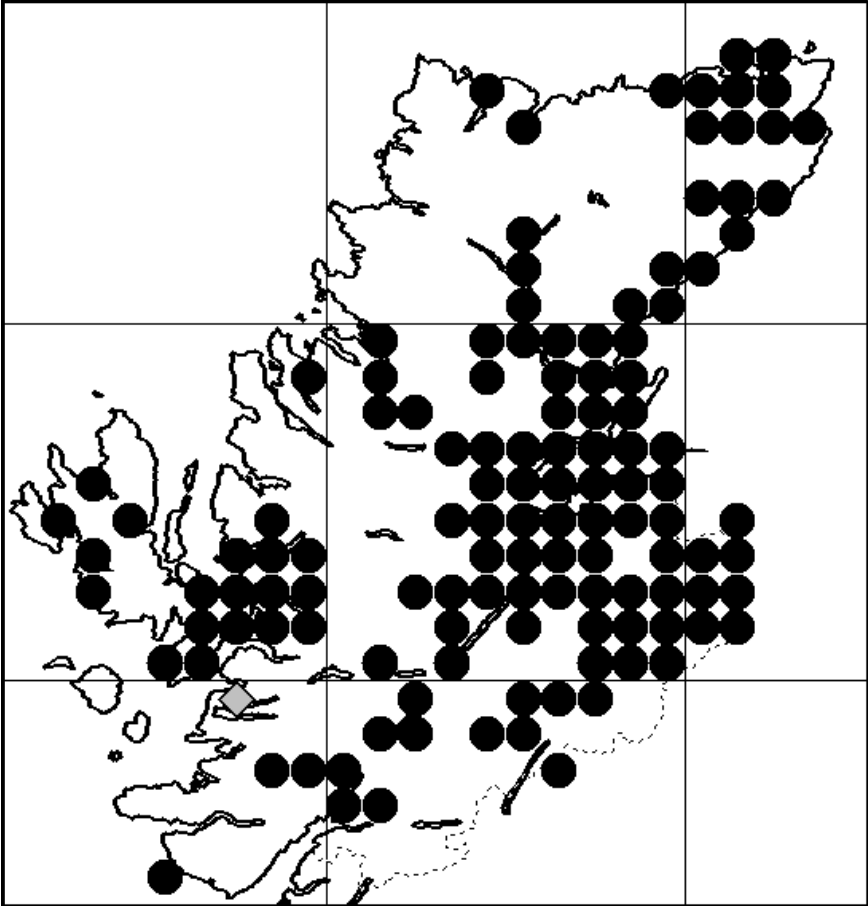


Bombus monticola

Bilberry Bumblebee

2006: Found in 3 three additional squares in W Ross, where the species is sparsely and irregularly distributed, with a slight extension to the known range into Torridon (NG96).

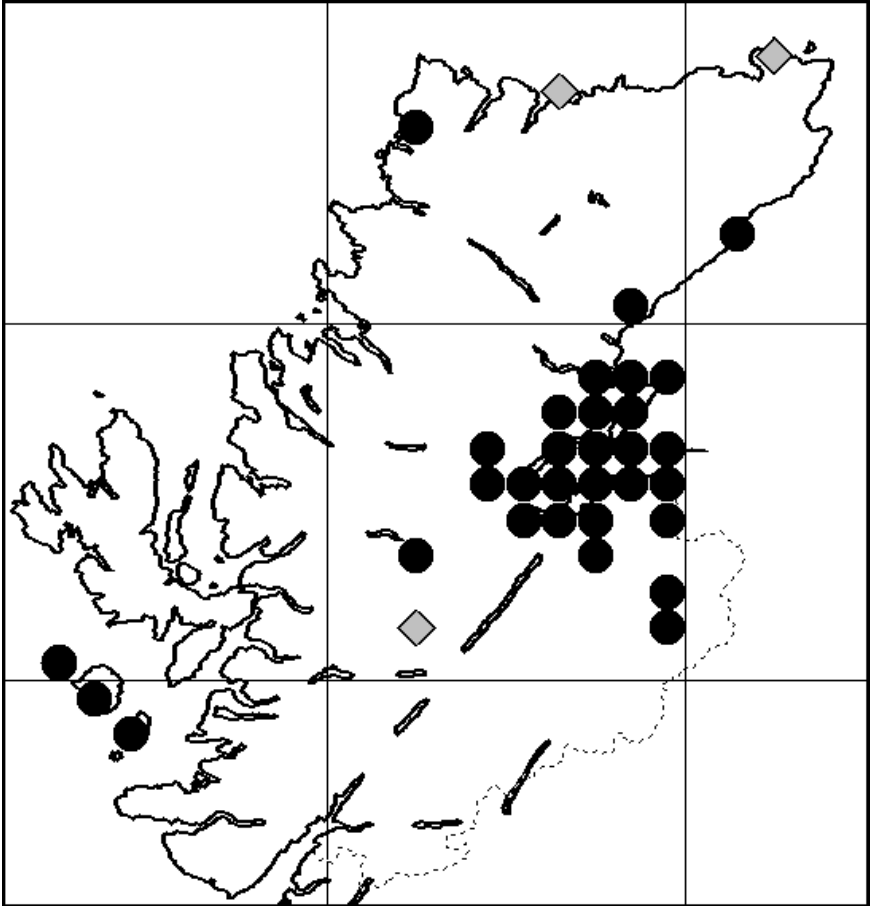
2007: A good year for this species, with an additional 5 squares to the north of its core range. The apparent extension into S Sutherland and Caithness is especially interesting given that the species is causing concern nationally.



Bombus pratorum

Early Bumblebee

2007: Found in one additional square in Knoydart, in a region where it is scarce.

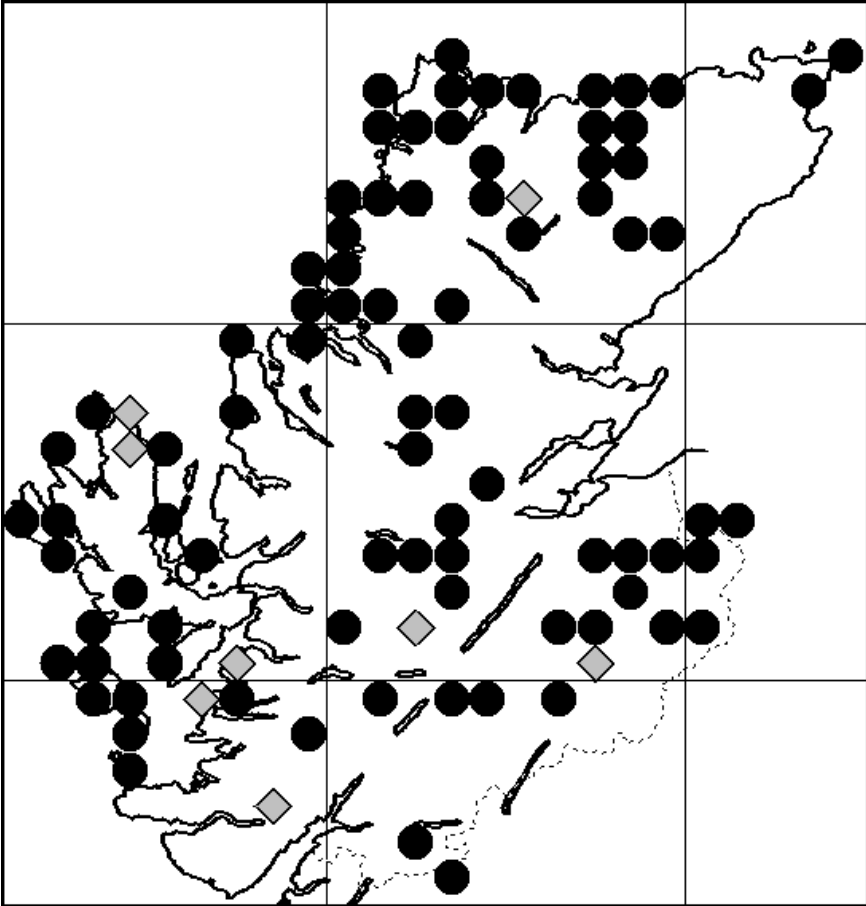


Bombus lapidarius

Red-tailed Bumblebee

2006: Two records on the north coast were both of workers, confirming the predicted further northward establishment of the species in Highland.

2007: One additional square to the SW of its mainland range may indicate further spread.

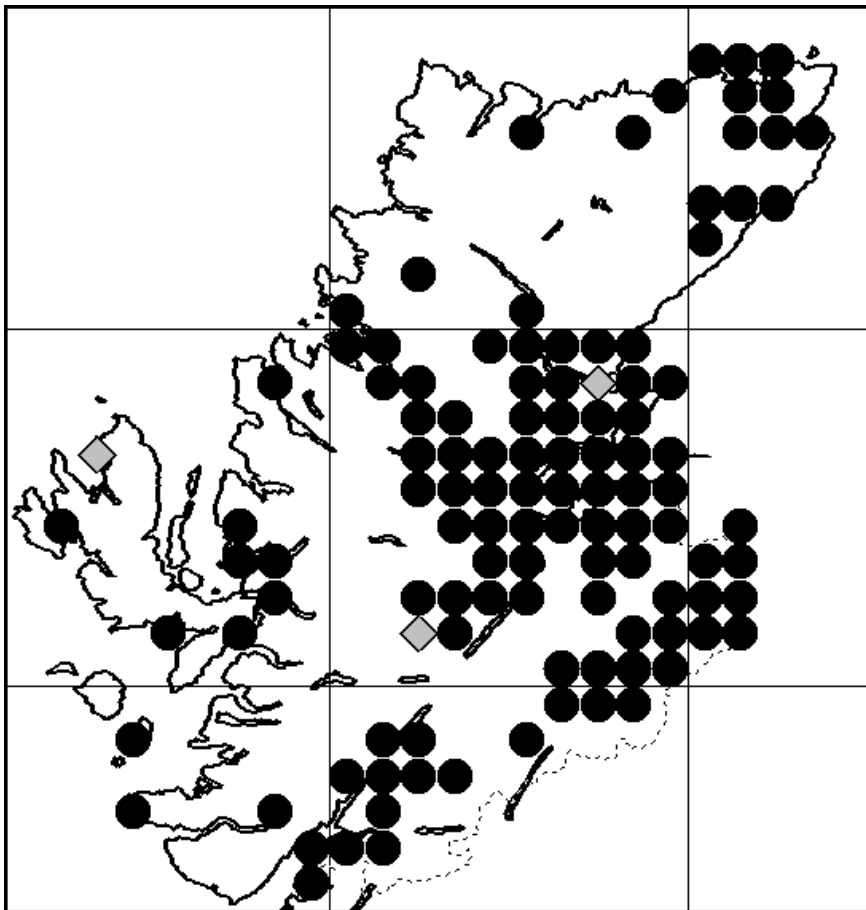


Bombus muscorum

Moss Carder Bee

2006: Five additional squares, all within the core areas in the west and north.

2007: Three additional squares similarly.

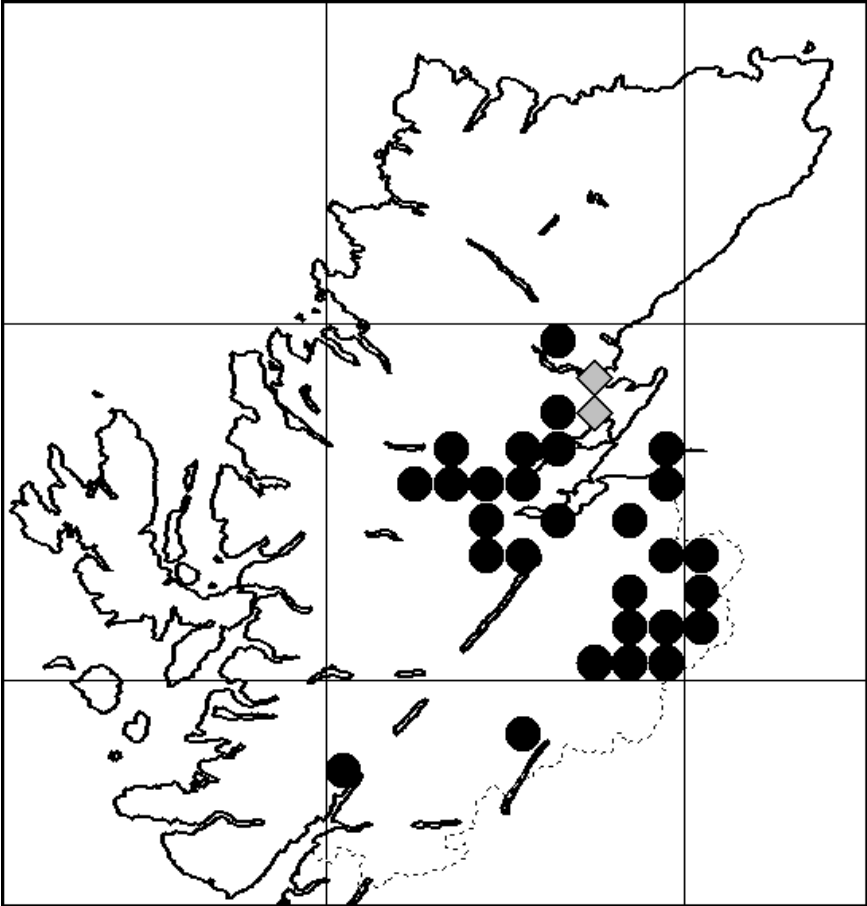


Bombus bohemicus

Gypsy Cuckoo Bumblebee

2006: Found at Uig in N Skye, extending its known range on the island.

2007: Two additional squares in its core range.



Bombus sylvestris

Forest Cuckoo Bumblebee

2007: Found in two additional squares on the NE edge of its range.

Acknowledgements

Some of the additional records were reported by David Baldock, Jane Bowman, Peter Burr, Duncan Davidson, Philip Entwistle, Jimmy McKellar and Mike Saunders.

Bibliography

Macdonald, M. & Nisbet, G. 2006. *Highland Bumblebees: Distribution, Ecology and Conservation*. HBRG, Inverness. (ISBN 0 9552211 0 2, ISBN 978 0 9552211 0 1.)

Macdonald, M. 2006. Highland Bumblebees: Distribution, Ecology and Conservation Supplement 1, November 2006. HBRG, Inverness. Online publication available at www.hbrg.org.uk.

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