

Filling the Void

Generating records from a sparsely-populated area

Ro Scott



- HBRG's recording area is the area administered by the Highland Council
- Largest local government area in the UK
- Covers 30,659 km²
- Which is 33 % of the total land area of Scotland
- Includes all or part of 351 ten km squares (1,107 in Scotland)
- Bigger than the whole of Wales
- The human population of this area is 234,000 (in 2015)





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- The deepest loch





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- Most norther-easterly point on British mainland (not John O'Groat's!)





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SNH Wild Land Areas



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SNH Remoteness from infrastructure





Many early published Atlases show large blank areas in Highland



HBRG was founded in 1986 by a group of local naturalists





HBRG's 25th Anniversary cake - 2011

We currently have about 120 members

Not on map:

- ↑ 2 in Orkney
- ➔ 7 elsewhere in mainland Scotland
- \checkmark 7 in England

Map by Murdo Macdonald using D-Map



Early species-recording projects





HBRG's first poster by Stephen Moran





Field trips to under-recorded areas



Crowlin Isles 2012

Rona (N of Raasay) 2015



Field trips to under-recorded areas



Pabay (off Skye) 2013

Cape Wrath 2015



		Winter	challeng	e 201	6-17
			deletes of the states of		
Large Willow Aphi	d Tuberolachnus	s salignus			



Good sources of background information are the NHM site, Influential Points, Harper Adams University, LNHG and EOL. Unlike most aphids, this one is easy to recognise from the large size (up to 5-6mm), association with willow in winter, and the 'shark-fin' tubercle on the back.

Focus on Highland Wildlife

Submitting records

Quick links:

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TRY - The Recorder's

Invasive Non-native Species

Species: Wireweed Rhododendron Japanese Knotweed Himalayan Balsam Giant Hogweed Salmonberry Alpine Cotula New Zealand Flatworm Australian Flatworm Mediterranean Fruit-fly Harlequin Ladybird American Signal Crayfish American Mink Raccoon Wild Boar

The New Zealand Flatworm Arthurdendyus triangulatus was first noted in the British Isles in the 1960s and is now well established in Scotland, Ireland and Faroe. It is easily spread in soil as rooted plants are moved between gardens, and can also be carried on the fur of cats, making confinement very difficult. In much of the west it has 'escaped' an reduce local earthworm populations dramatically, with knock-on effects on moles

> overnight. In the morning, check underneath for the flatworms. They are up to 15cm and usually seen curled into a flat spiral. Egg-capsules look like blackcurrants. We ar habits.



resources

DEFRA and INNS - identification sheets for a wide range of invasive aliens

European Network on Invasive Alien Species (NOBANIS)

Mapping Highland INNS - report to Highland LBAP Focus on

Compiled by or with advice from Barbara Macritchie, Mary Legg, Marina Swanson, Derek Mayes, Stan Whitaker, Murdo Macdonald.



uberolachnus (Tuberolachnus





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Latest news

TRY - The Recorder's

Submitting records **Records Database**

Access NBN data

Links and resources

TRY! - the Recorder's Year

'The Recorder's Year' features species to be looked for from spring through the year.

Each species has been selected because it is

- · readily and confidently identifiable;
- easily found, in at least parts of Highland (often in gardens, and always in easily accessible habitats);
- under-recorded, so that new information will be easily obtained.

TRY! targets, and their seasons												
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Holly Leaf Gall Fly												
Holly Speckle Fungus												
New Zealand Flatworm												

Links in the table are to .pdf files which can be printed out at A5 size for easy use in the field. Right-click and choose 'Save target as ...' or the equivalent in your browser to save them. Click the image at the top of the page to see current maps on NBN Gateway.

The entire set can be downloaded here (.pdf file, 1.5Mb).







Recording challenges on website



Records per recorder



Histogram by Murdo Macdonald



Highland Bumblebees

Distribution, Ecology and Conservation



Murdo Macdonald & Gill Nisbet Highland Biological Recording Group

2006

Atlas of Butterflies in Highland and Moray

> David Barbour, Stephen Moran, Tony Mainwood and Bill Slater

1998 & 2008 (2nd edn.)

Highland Ants

Distribution, Ecology and Conservation



Murdo Macdonald Highland Biological Recording Group



2011

Publication of Atlases

2013



-

HBRG currently has over 200,000 records on the NBN Gateway

More than 99% of which are available to the public at full resolution





HBRG Insects

HBRG non-insect invertebrates

HBRG Vertebrates (excluding badger)

Species richness maps

(densities not directly comparable)



Notable discoveries

Lasiobotrys lonicerae



Knopper gall on oak



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Lasiobotrys lonicerae on honeysuckle Photo: Murdo Macdonald



Knopper gall on oak Photo: Stewart Taylor



Who uses it?

- In one year (2014/15) there were 246 downloads of HBRG data from the Gateway
- By people from 24 different organisations
- Including government, statutory agencies, universities, NGOs and others
- For a variety of purposes including statutory work, research, education, conservation, land management and personal interest.



HBRG Otter records: the 5th largest open-access dataset for this species





Lorn Natural History Group



Outer Hebrides Biological Recording

Problems:

- Current funding from SNH ends in March 2017
- Long-term sustainability of data management
- Too dependent on a small number of volunteers
- Concerns about utility of ALS for our purposes
- Concerns re demise of 'old' Gateway



www.hbrg.org.uk

