





Photo: The Vatersay Machair @Lorne Gill

# **NBN Atlas Scotland: update**

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## **NBN Atlas model**

**Pilot project** 



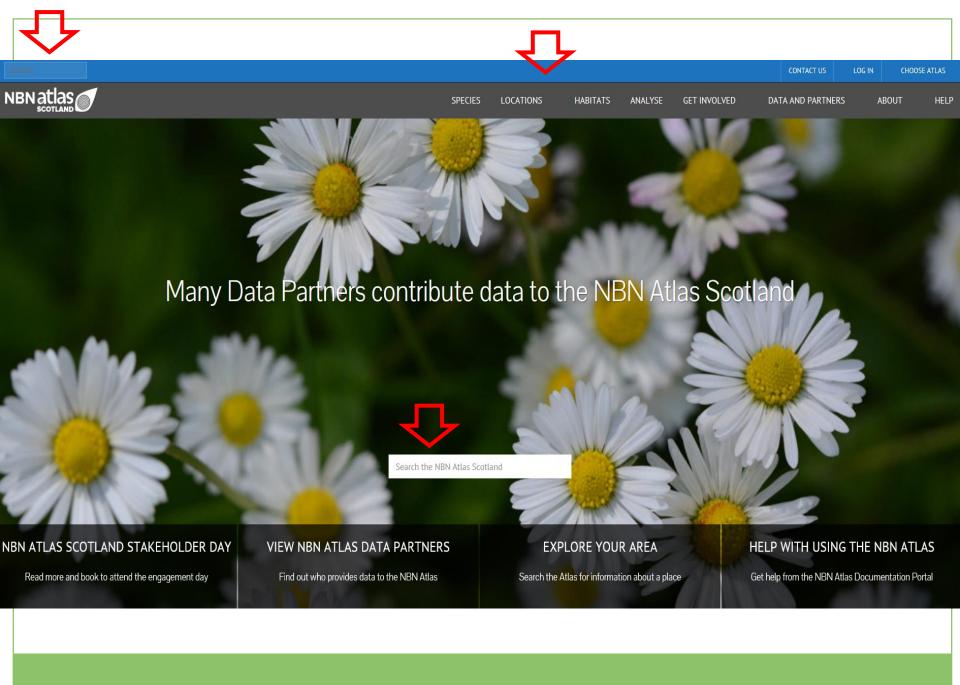
Single database and main portal



**Country portals** 



Future NBN Atlas portals....



SPECIES



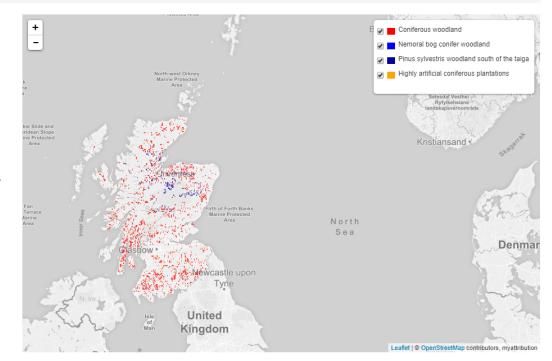
Home → Explore → Habitats

## Select a habitat to explore

- · Grasslands and lands dominated by forbs, mosses or lichens
- Hedgerows
- · Blanket bog complexes
- · Temperate thickets and scrub
- · Woodland, forest and other wooded land
- Mixed deciduous and coniferous woodland
- Coniferous woodland
  - Nemoral bog conifer woodland
  - Pinus sylvestris woodland south of the taiga
  - · Highly artificial coniferous plantations
- Exotic woodland and scrub
- · Broadleaved deciduous woodland
  - Meso- and eutrophic Quercus, Carpinus, Fraxinus, Acer, Tilia, Ulmus and related woodland
  - Broadleaved swamp woodland
  - Acidophilous Quercus-dominated woodland
  - Non-riverine woodland with Betula, Populus tremula or Sorbus aucuparia
- Marine habitats
- · Coastal habitats
- · Inland surface waters
- · Arable land and market gardens
- Mixed crops of market gardens and horticulture
- · Cultivated areas of gardens and parks
- Atlantic parkland
- · Constructed, industrial and other artificial habitats
- Montane habitats
- · Raised and blanket bogs

#### About these habitats

These habitats are derived using the EUNIS Land Cover Scotland geospatial layer provided by Scottish Natural





#### DATA PARTNERS

Learn about, be inspired by, and join the organisations contributing information to this atlas. Follow these links to learn about our Atlas Data Partners or scroll through to find more.



#### Scottish Environment Protection Agency

Protecting and improving Scotland's environment





#### Lorn Natural History Group

Biological Records Centre for vice-county 98, Main Argyll





#### The Wildlife Information Centre

TWIC is the BRC for the Lothians, Sottish Borders & part of Central Scotland.





## British Dragonfly Society Recording Scheme

Working to conserve dragonflies and their wetland habitats







Scotland's environment

Search Scotland's environment web

GO

★ Our environment - Maps - Data - Get involved - Educational resources - News - About us -

# part of Scotland's environment

Through partnerships and collaborations, Scotland's environment web is a growing network of interconnected, trusted and authoritative sources of environmental, data and information – **find out more** 

Scotland's soils

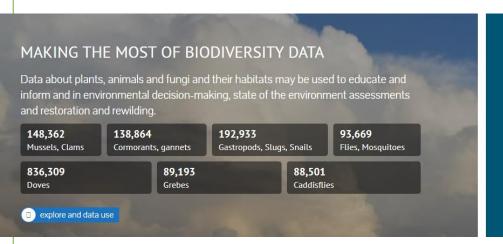
Scotland's aquaculture

Scotland's noise

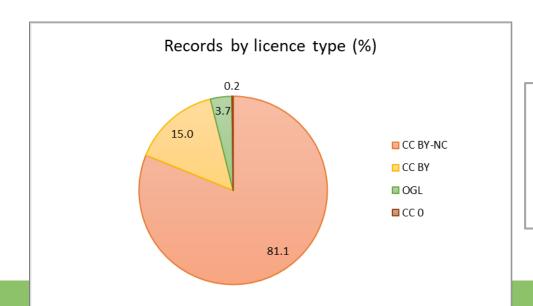




## Scotland accounts for 11.2% of the records in the NBN Atlas



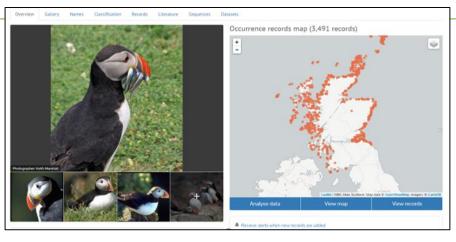




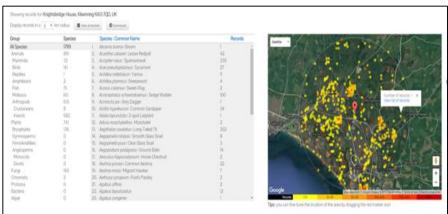
NBN Atlas Scotland records: licence summary

Fully open (CC BY; OGL; CC0) = 18.9%

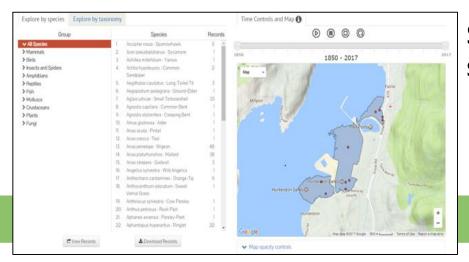
Shared (CC BY-NC) = 81.1%



# Search by species



# Search by location



Search by site



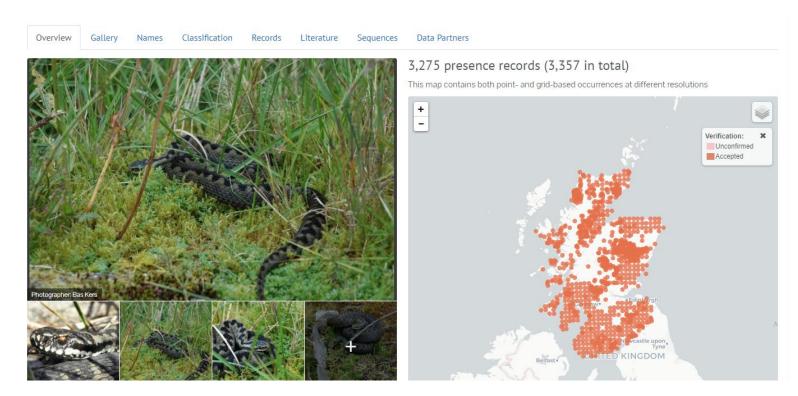


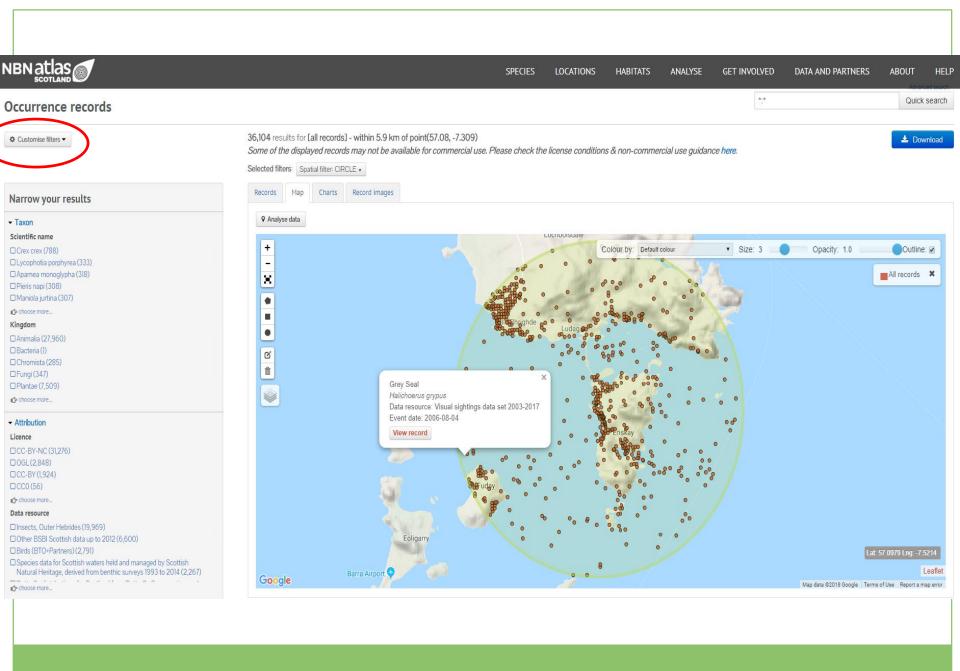
SPECIES

LOCATIONS ▼

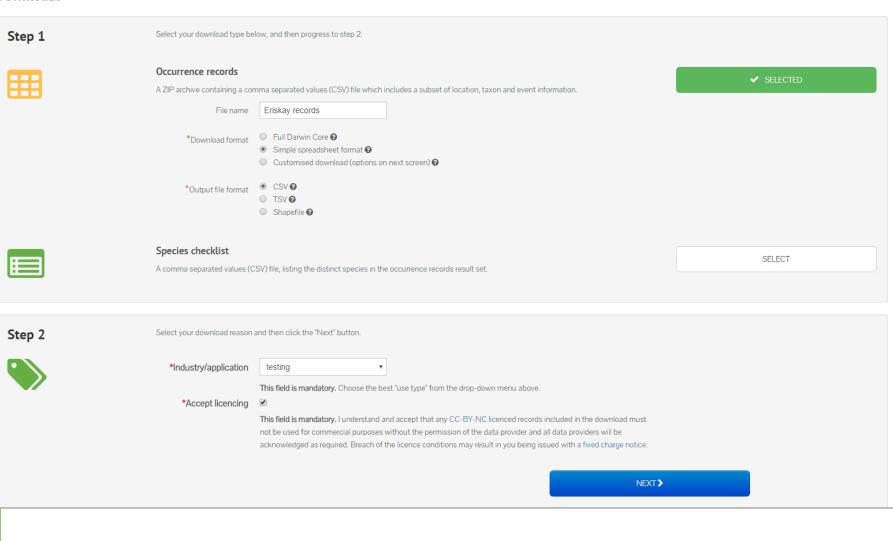
#### ADDER

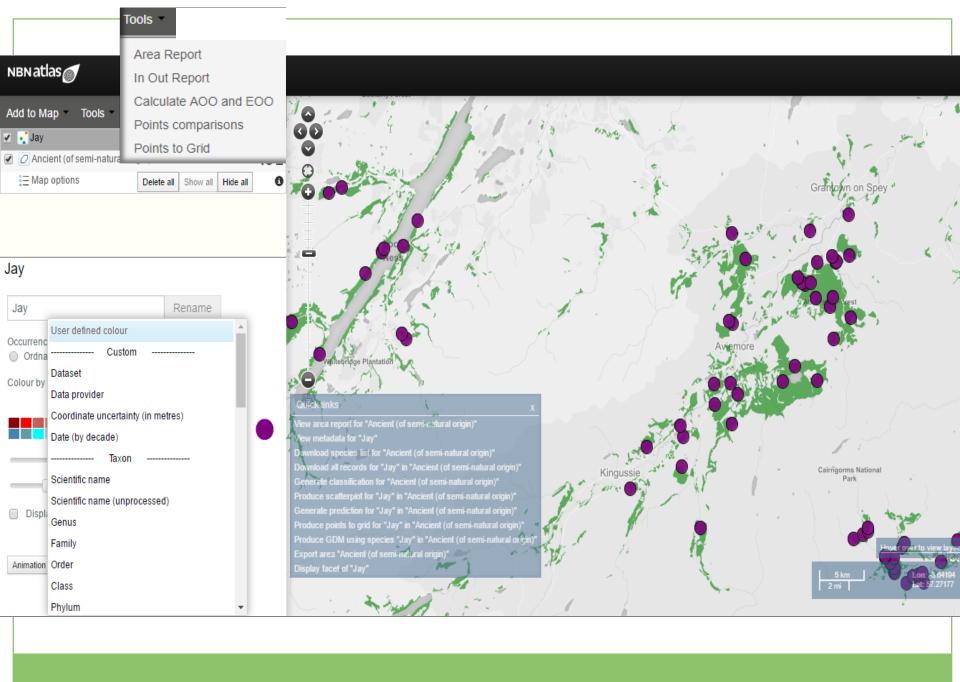
species Accepted Name authority: UKSI

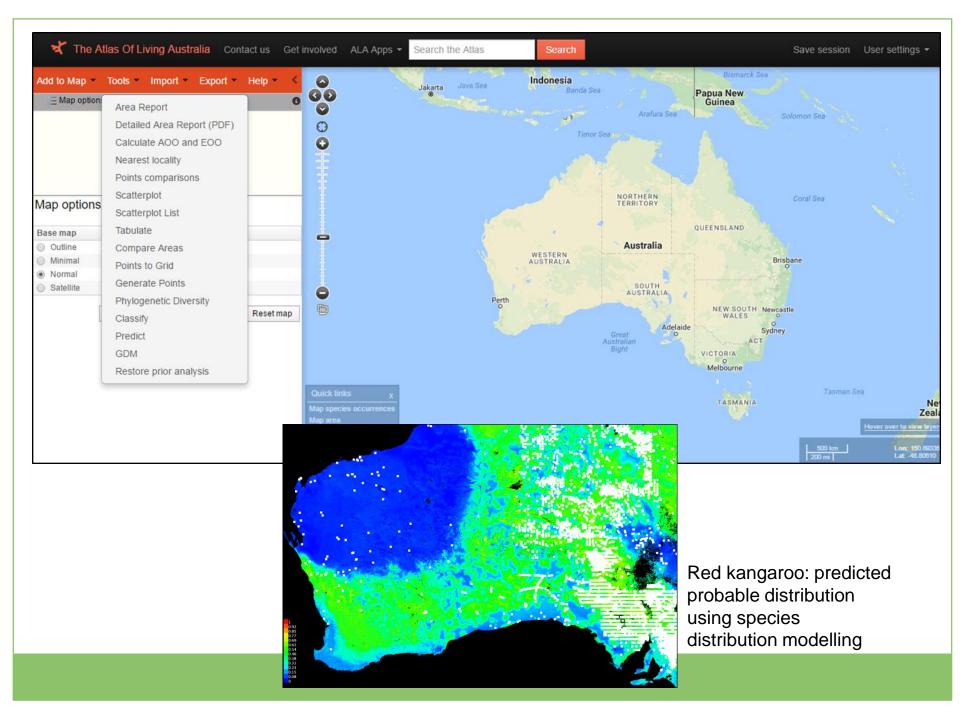




#### **Downloads**







GO TO NBN ATLAS



## NBN Atlas Documentation and Help Portal



#### **Getting Started**

Here you can find some quick links to help get you started with registering for and using the NBN Atlas

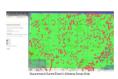
- How to register
- Create an account
- Login
- · Step by Step Help Guides
- . "How to" video tutorials



#### Use data

Guidance on how to use the data on the NBN Atlas and some important definitions relating to

- General guidance for using data
- · Definitions of data licences
- . Breach of licence conditions
- · Definition of commercial and noncommercial use
- . How to cite NBN Atlas data
- NBN Atlas Terms of Use



#### Share data

Information on how you can share your data with the NBN Atlas and guidance for doing so.

- · Become a data partner
- Share species occurrence records
- Share species occurrence records with **GBIF**
- Share species images
- · Supply spatial datasets
- Guidance for adding historic data
- Who are our data partners











## **Key developments**

- Implementing Level 1 and 2 verification status flags on records
  - Level 1: 'accepted' or 'unconfirmed' mandatory
  - Level 2: 'accepted correct', 'accepted considered correct', 'unconfirmed – plausible' or 'unconfirmed – not reviewed' optional
- Presence and absence statuses for each record and clarity on record counts
- Improving the visibility of licences associated with records and in particular the CC BY-NC licence
- Updating the UK Species Inventory dictionary





# **Developments: immediate future**

- Further work towards sensitive species access but funding is still a limitation to progress
- Developing record level commenting functionality
- Testing an automated record export from iRecord to the Atlas
- Expect first outputs from collaborative project to explore the feasibility of automating the harvesting of spatial layers

### **INNS** search

Non-native species determined by the GBNNSIP list of the UK species inventory

Related Searches Occurrence records (4,115)

SEARCH	Search Reset
REFINE RESULTS	Results Map
Species list WCA 1981 Schedule 9 (113) NRW Sustainable Management of	Showing 1 - 20 of 205 results  Results per page 20 ▼ Sort by scientific name ▼ Sort order ascending ▼
Natural Resources (SMNR) (109) INNS - Wales Priority Species for Action (49)	species: <i>Acaena novae-zelandiae</i> Kirk – Cyngaf Piripiri Cyngaf Piripiri, Pirri-Pirri-Bur, Pirri-Pirri Bur, Pirri-Pirri
EU Invasive Alien Species Regulation (45)	Taxon group: flowering plant Establishment status: GB Establishment Status - Established
More	Priority species for Wales: Management
Welsh marine risk assessment Welsh marine risk monitoring: medium	Habitat: terrestrial Occurrences: 12
(12) Welsh marine risk surveillance: high (11) Welsh marine risk monitoring: high (6)	species: <i>Agrilus planipennis</i> Fairmaire, 1888 – Emerald Ash Borer Taxon group: insect - beetle (Coleoptera)
Priority species for Wales Long-term management (23)	Establishment status: GB Establishment Status - Absent  Habitat: terrestrial
Prevention (15) Management (11)	Occurrences: 0
Kingdom	species: Aix galericulata (Linnaeus, 1758) – Mandarin
Animalia (119)	Mandarin, Mandarin Duck, Hwyaden Gribog, Hwyaid Cribog
Plantae (73)	Taxon group: bird

### Aix galericulata (Linnaeus, 1758) ISON MANDARIN DUCK PRESENCE ABSENCE Establishment status: GB Establishment Status - Est Establishment means: Non-native Accepted Name authority: UKSI Overview Gallery Classification Sequences Data Partners Names Records Literature 1,825 presence records (1,825 in total) This map contains both point- and grid-based occurrences at different resolutions Verification status: Unconfirmed Accepted MANCHESTER: DUBLIN . Nottingham\* BIRMINGHAM\* Oxford\* LONDO Rights holder: Ariella Friedman Leaflet | NBN Atlas Wales INNS, Map data @ OpenStreetMap, imagery @ CartoDB

Analyse data

View records

Interactive map





## Your role today.....

- help us to understand your use of the Atlas so that the Atlas becomes relevant for you and your work
- suggestions for future development and why:
  - is it improvements to visualisation or navigation?
  - is it search refinements and functionalities?
  - is it making the Atlas more Scottish?
  - is it improving communication?

# The SBIF Review of the Biological Recording Infrastructure in Scotland

- The Recommendations to improve our infrastructure are still being crafted.
- Timing and implications of change are unknown.
- However it is clear that data sharing will continue and we will need to continue to build our understanding of our data community
- The NBN is fully supportive of the Review and we await its outcome ....





Thanks for listening!