Inter-Island Environment Meeting

CiRecord:

Channel Islands Records Centres – working together for biodiversity

Presented by CI Records Centre Managers;

Matt Lewis, Jon Rault, Liz Sweet

Supported by

Mr & Mrs Moerman

Le Vallon d'Or Holidays

CiRecord:
Channel Islands Records Centres, Working Together for Biodiversity.

Guernsey Biological Records Centre

Elizabeth Sweet – Manager, Guernsey Biological Records Centre.
gsybiorecords@gmail.com

Alderney Wildlife Trust

Matthew Lewis – Manager, Alderney Biodiversity Centre (an Alderney Wildlife Trust Project).
manager@alderneybiodiversitycentre.org

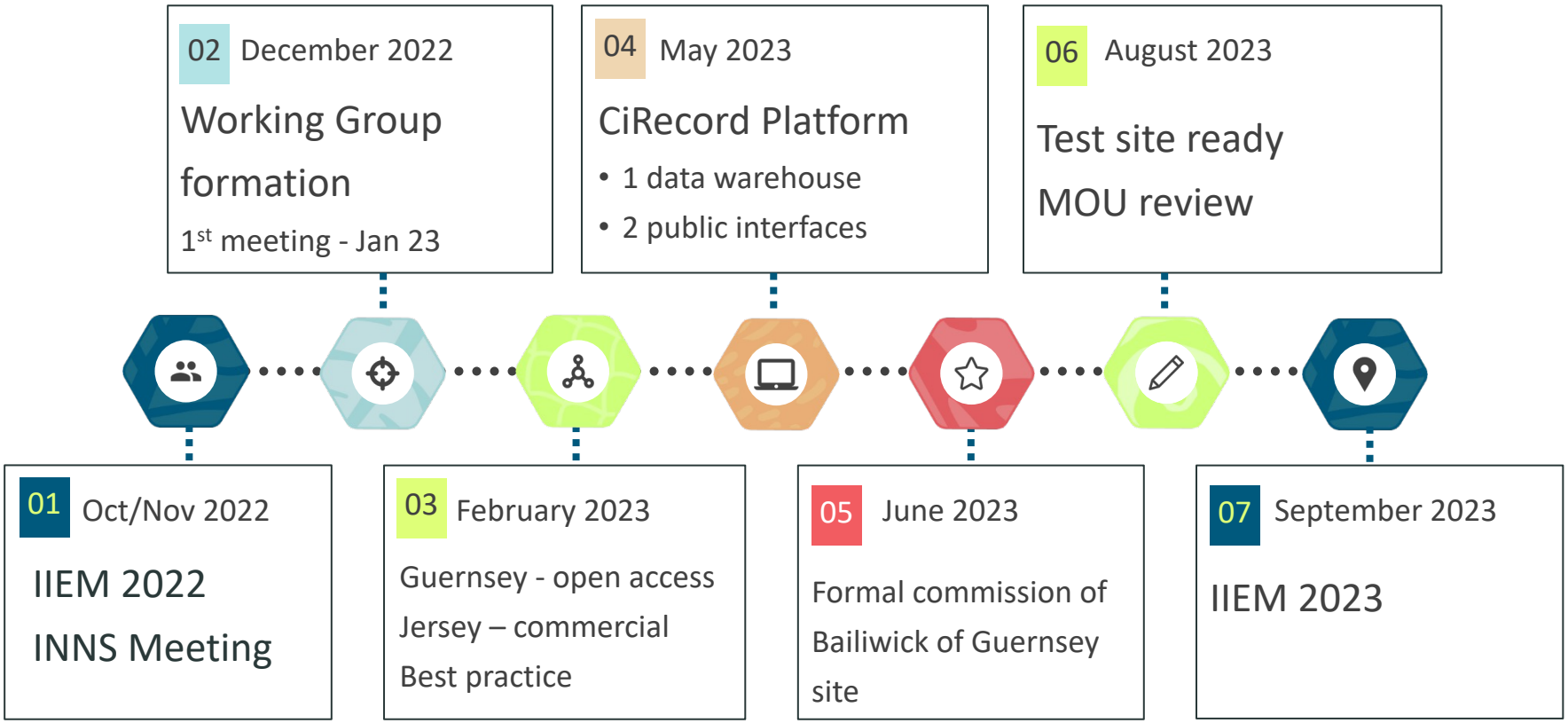
Jersey Biodiversity Centre

Jon Rault – Manager, Jersey Biodiversity Centre.
jon@societe.je

History of CiRecord

Many, many years of discussions…

CiRecord progress - last 12 months



Alderney Wildlife Trust

Guernsey Biological Records Centre

Jersey Biodiversity Centre

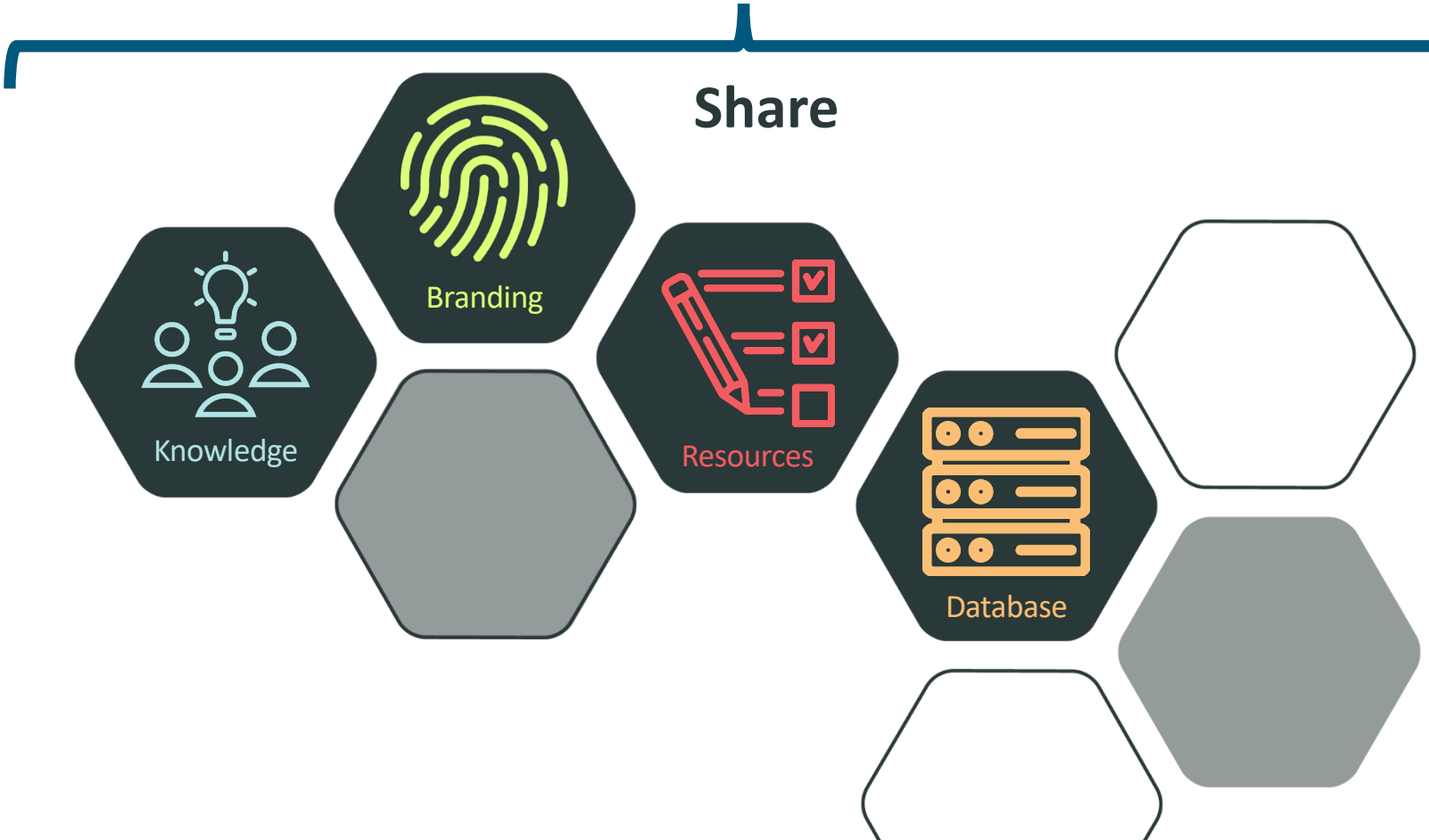
Each Records Centre:

- ✓ remains independent
- ✓ is responsible for their respective geographical region

Alderney Wildlife Trust

Guernsey Biological Records Centre

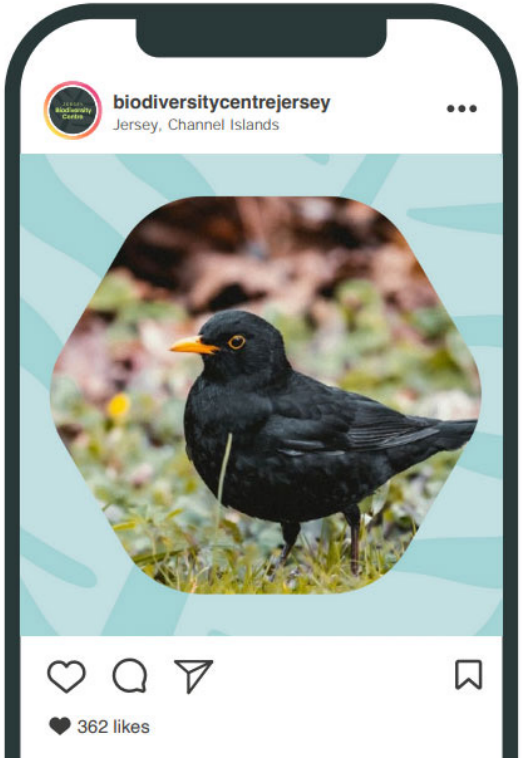
Jersey Biodiversity Centre

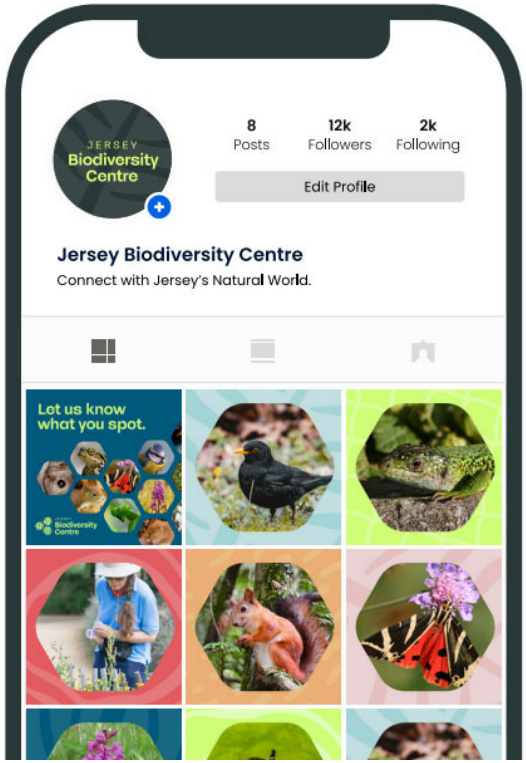


JERSEY
Biodiversity
Centre
JERSEY
Biodiversity
Centre

Social Media Content

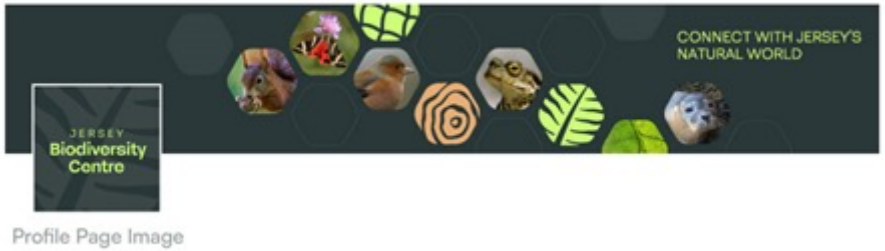
It is important for our social media content to align with our brand in order to establish consistency and increase brand recognition. Utilizing our established color scheme, we can create visually appealing and engaging posts.





Facebook Cover

Linkedin Organisation Page Cover



Jersey Biodiversity Centre

Home | Projects | Support | About | Blog | Login / Register | Record a Sighting →

Get closer to the island's nature

We are a charity that collects, manages and shares information about Jersey's wildlife, ecology and natural environment.

Read More About Us | View Current Projects →

Record Sightings

Use this site to enter your latest wildlife sightings and get involved with our nature events and surveys.

Enter Your Data →

Get Involved

Help preserve the island's biodiversity. Support us by fundraising, donating, volunteering or sponsoring.

Support Us →

Keep Up To Date

Stay updated on the latest news or find out more about our free school teaching programs.

Read Our Blog →

Our Projects

Jersey Biodiversity Centre has a range of projects aimed at conserving the natural environment of the island. These include programs to monitor and protect endangered species, such as the green lizard and agile frog, and efforts to restore important habitats, such as heathlands and wetlands. The center also engages with the community through initiatives like the Pollinator Project and Reptilewatch JE, which encourage citizen science and help raise awareness about the importance of biodiversity conservation. Through these various projects, Jersey Biodiversity Centre is working towards a more sustainable future for the island's flora and fauna.

Discover More →

Recent blog articles

News | Study

Summer Internships 2023

Quis neque, eu et ipsum amet, vel et. Varius integer enim pellentesque ornare pharetra faucibus arcu. Mauris blandit egestas nibh.

By Sarah Maguire
12/02/23 • 5min read

News

Spring Wildlife

Quis neque, eu et ipsum amet, vel et. Varius integer enim pellentesque ornare pharetra faucibus arcu. Mauris blandit egestas nibh.

By Sarah Maguire
13/02/23 • 3min read

News | Study

Summer Internships 2023

Quis neque, eu et ipsum amet, vel et. Varius integer enim pellentesque ornare pharetra faucibus arcu. Mauris blandit egestas nibh.

By Sarah Maguire
12/02/23 • 5min read

View All Blog Articles →

Jersey Biodiversity Centre

Home | Projects | Support | About | Blog | Login / Register | Record a Sighting →

Projects

Discover our ongoing projects aimed at protecting and conserving Jersey's unique biodiversity and learn how you can get involved.

Pondwatch

Pondwatch JE is a citizen science project focused on conserving Jersey's native amphibians and their habitats. By spotting wildlife in your pond and submitting sightings, you can help monitor the populations of the western toad, agile frog, and palmate newt. Two levels of involvement are available: Level 1 involves 30 minutes of observation and submission of sightings, while Level 2 requires attending training and conducting surveys five times between January and May. If you don't have time for surveys, submit casual records.

Find out More →

Reptilewatch

Find and share reptile sightings to help conservation in Jersey. Level 1: Spend 30 min searching for reptiles and submit sightings. Level 2: Carry out 6 surveys for all reptiles or wall lizards. Training provided. Record casual sightings if no time for surveys. Resources available on JARG website. Jersey has 4 native reptile species: green lizard, slow worm, wall lizard, and grass snake. Reptilewatch JE builds on NARRS to protect these species.

Find out More →

Pollinator Project

Join the Pollinator Project with a relaxing wildlife survey that takes 10minutes. Pollard Insect Timed Counts (PIT counts) - Sit watching a patch of flowers for 10minutes whilst recording insects that land on those flowers. Your results will help us to understand more about pollinators in Jersey and will feed into a larger UK scheme to help understand changes in numbers of pollinators. Get the app to help! Complete a PIT count in good weather between 1 April and 30 September. Resources available on the website.

Find out More →

Who are we?

- Our Purpose
- Data Requests
- Resources
- Local Projects
- Contact Us

Get Involved

- Send a donation
- Fundraising
- Volunteering
- Corporate Sponsorship
- School Programmes

Newsletter Signup

Your email address | Register →

Follow Us

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Powered by _SystemLabs.

Indicia

- A ‘toolkit’ for building online recording systems for wildlife records.
- Flexible - build any wildlife recording form to suit your survey’s needs.
- Cost effective.
- Easy and rapid data entry.
- Tools provided for expert verification of data.
- Simple and powerful access to data.
- Fully customisable.
- An open source, community owned project.
- Ongoing support and development.

Alderney Wildlife Trust

Guernsey Biological Records Centre

Jersey Biodiversity Centre

Indicia

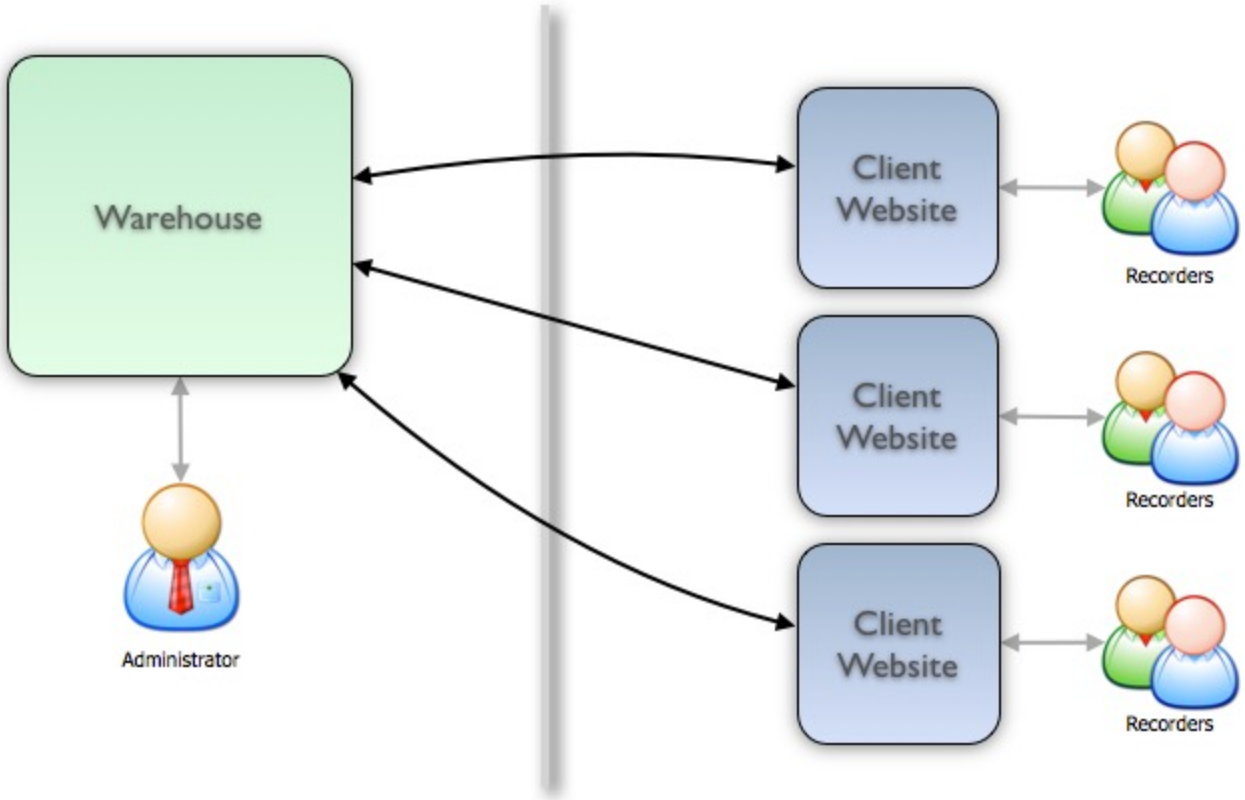
- Used by the Jersey Biodiversity Centre since 2018 and the Alderney Biodiversity Centre since 2021.

- Guernsey Biological Records Centre is in the process of adopting Indicia having previously operated a bespoke database system.

Alderney Wildlife Trust

Guernsey Biological Records Centre

Jersey Biodiversity Centre


Warehouse
Client Website
Client Website
Client Website
Recorders
Recorders
Recorders
Administrator

Welcome to the Jersey Biodiversity Centre

Enter your wildlife sightings

Explore Jersey's wildlife and get closer to nature.

We are a charity that collects, manages and shares information about Jersey's wildlife, ecology and natural environment.

Use this site to enter your latest wildlife sightings and get involved with our nature events and surveys.

Enter wildlife photos.

Contact us at jbc@societe-jersiaise.org

Hedgehog

You can record your hedgehog sighting here if you see an individual(s). Please specify in the comments if it was seen at day or night.

If you spot a hedgehog's faces you can also add that into the comments or add a photo if you're not sure.
Read more

Tagged with

Title

Apply

Reptile Watching - summer activity.

The Jersey Biodiversity Centre (JBC) is excited to share a fantastic free summer activity to spot wild reptiles across the island. You need to spend 30minutes visually looking for reptiles and count what species you saw and how many. There are four native reptiles you could spot and by sharing your survey you can help in their conservation.
Read more

The Marvellous World of Bees.

Add a casual record

You are about to submit a record to the **Jersey Biodiversity Centre** without logging in. If you are interested in wildlife we would like you to consider creating an account with the Jersey Biodiversity Centre which would have advantages including easier recording options and the ability to access your records in the future. We hope you will visit us again making additional biological records.

If you would like to create a personal account before submitting your record, please follow this link: **http://jerseybiodiversitycentre.org.je/user/register**.

Personal details

First name:

Please provide your first name

Last name:

Please provide your surname

Email: *

Please provide your email address. This will only be used to contact you if we require further information to verify the record.

Date: *

dd/mm/yyyy

Select the date of the record.

Recorder Name: *

Please add the recorder's name, if it is not already shown, using the format "Surname, First name"

Species: *

Enter the species name using * as a wildcard

Certainty:

Certain

How certain of this identification are you?

Quantity:

Provide an indication of the abundance

Identified By:

If anyone helped with the identification please enter their name here

Sex:

not recorded

Please indicate the sex of the organism, if recorded.

Stage:

not recorded

Please indicate the life stage of the organism, if recorded.

Photos

Add photo

Drop files here...

Photos

Add photo

Drop files here...

Sensitivity

Is the record sensitive? ☐

Blur record to:

none

This is the precision that the record will be shown at for public viewing

Location:

Provide the name of the site, ideally using one that is recognisable from an OS map. Do not enter a postal address as the information you provide will be visible to others.

Enter a spatial reference:

WGS84 (decimal lat,long)

Or search for a place on the map:

Search

Or simply click on your rough position on the map.

Habitat:

Comment:

Save

Explore all records

View | Edit | Manage display | Delete | Revisions | Clone

Search: | Limit to last 10 years ☐ | Records to include: Exclude not accepted records

Species list: Select list... | Apply

* Filter: Select filter... | Apply | Reset | Create a filter

What Bombus

Where Records in Jersey Biodiversity Centre

When Define a date range for records to include

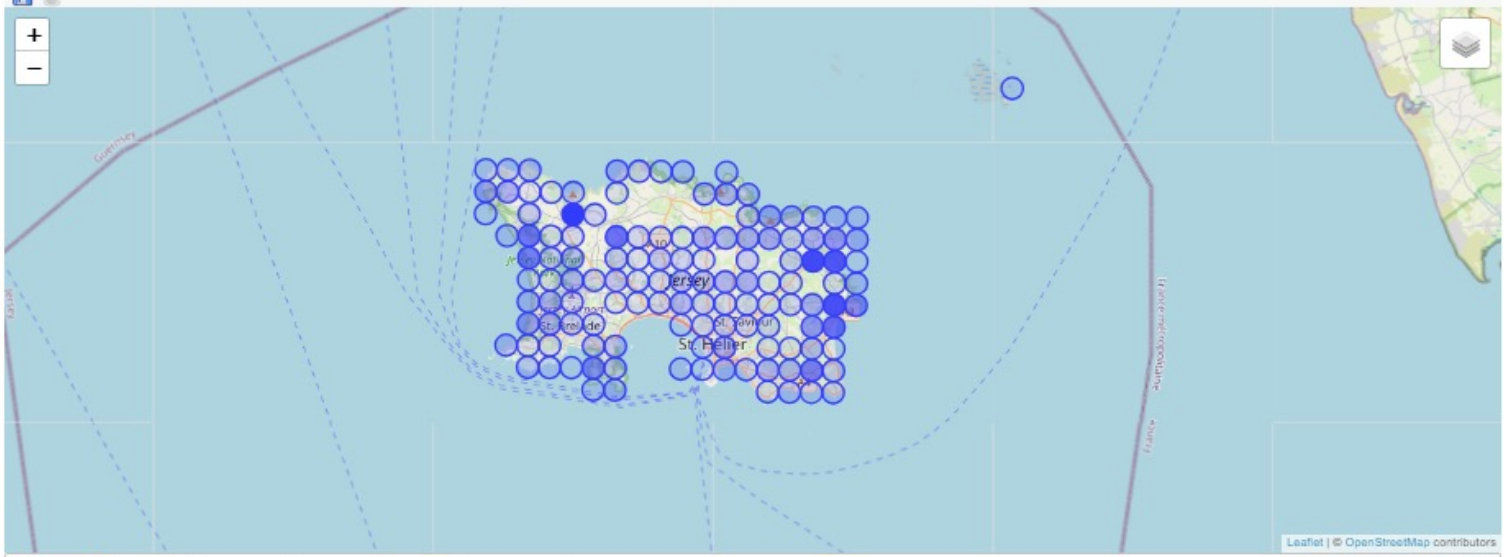
Who Define whose records to include

Record ID Select records by record ID

Quality Exclude not accepted records

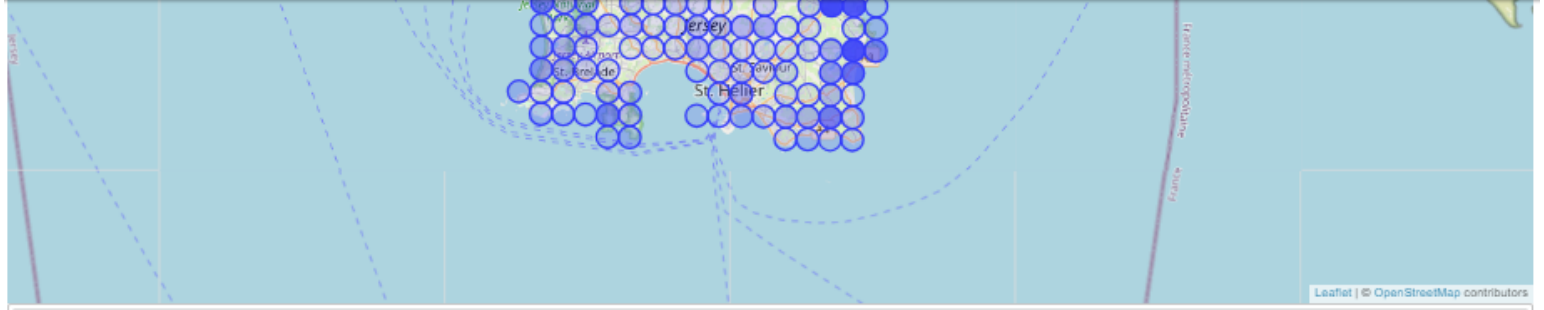
Source Select records based on source website, survey or input form

Save filter as:



Records | Species | Families | Groups | Photos | Downloads

ID	Src	Species group	Species	Common name	Lat.	Lon.	Date	Location name	Coordinate uncertainty in metres	Life stage	Count
32989726	27|64	insect - hymenopteran	*Bombus lapidarius*	Red-tailed Bumblebee	49.226	-2.22299999999999	11/09/2023	Les Mielles - S3	50		3
32989724	27|64	insect - hymenopteran	*Bombus pascuorum*	Common Carder Bee	49.226	-2.22299999999999	11/09/2023	Les Mielles - S3	50		1
32989723	27|64	insect - hymenopteran	*Bombus pascuorum*	Common Carder Bee	49.226	-2.226	11/09/2023	Les Mielles - S1	50		1

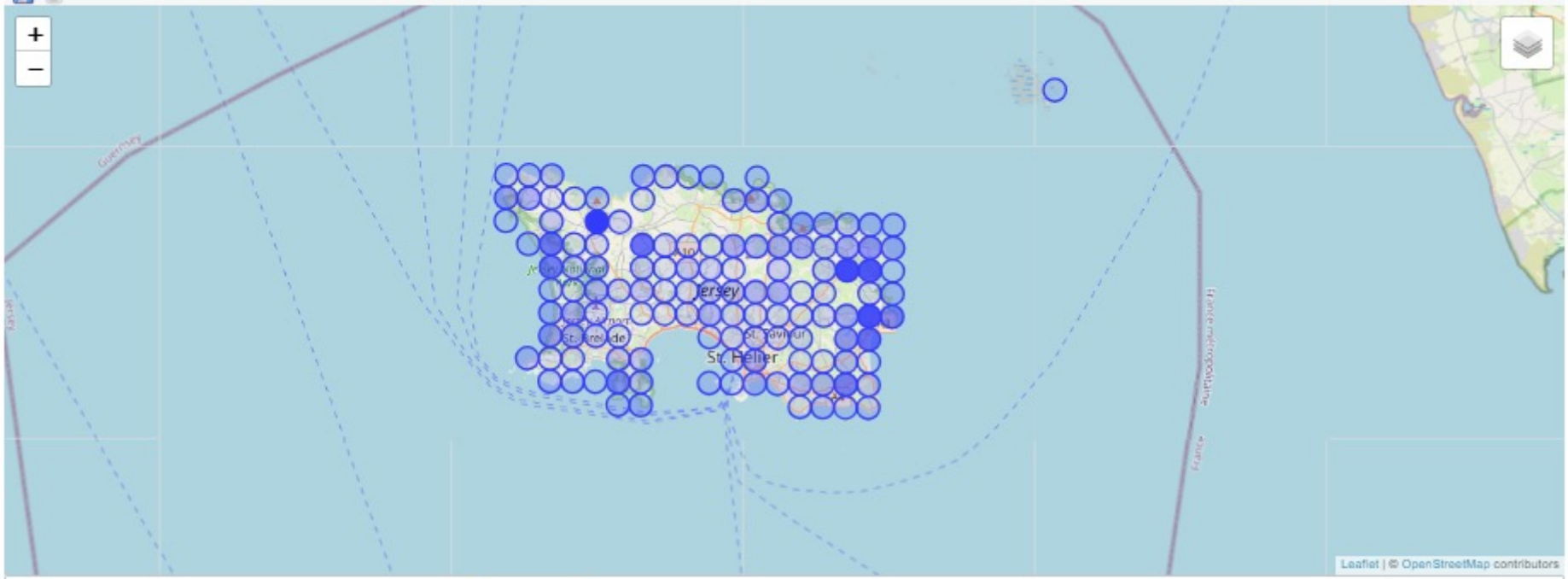


Records | Species | Families | Groups | Photos | Downloads

	ID	Src	Species group	Species	Common name	Lat.	Lon.	Date	Location name	Coordinate uncertainty in metres	Life stage	Count	
☑	32989726	27|64	insect - hymenopteran	*Bombus lapidarius*	Red-tailed Bumblebee	49.226	-2.22299999999999	11/09/2023	Les Mielles - S3	50		3	
☑	32989724	27|64	insect - hymenopteran	*Bombus pascuorum*	Common Carder Bee	49.226	-2.22299999999999	11/09/2023	Les Mielles - S3	50		1	
☑	32989723	27|64	insect - hymenopteran	*Bombus pascuorum*	Common Carder Bee	49.226	-2.226	11/09/2023	Les Mielles - S1	50		1	
☑	32866953	27|64	insect - hymenopteran	*Bombus lapidarius*	Red-tailed Bumblebee	49.225	-2.22499999999998	05/09/2023	Les Mielles - S4	50		4	
☑	32866951	27|64	insect - hymenopteran	*Bombus lapidarius*	Red-tailed Bumblebee	49.226	-2.22299999999999	05/09/2023	Les Mielles - S3	50		3	
☑	32866950	27|64	insect - hymenopteran	*Bombus terrestris*	Buff-tailed Bumblebee	49.226	-2.22400000000001	05/09/2023	Les Mielles - S2	50		2	
☑	32866949	27|64	insect - hymenopteran	*Bombus pascuorum*	Common Carder Bee	49.226	-2.226	05/09/2023	Les Mielles - S1	50		2	
☑	32866947	27|64	insect - hymenopteran	*Bombus terrestris*	Buff-tailed Bumblebee	49.226	-2.226	05/09/2023	Les Mielles - S1	50		2	
☑	32711209	27|64	insect - hymenopteran	*Bombus terrestris*	Buff-tailed Bumblebee	49.226	-2.22700000000001	29/08/2023	Les Mielles - S6	50		1	
☑	32711199	27|64	insect - hymenopteran	*Bombus lapidarius*	Red-tailed Bumblebee	49.225	-2.22499999999998	29/08/2023	Les Mielles - S4	50		3	
☑	32711177	27|64	insect - hymenopteran	*Bombus lapidarius*	Red-tailed Bumblebee	49.226	-2.22299999999999	29/08/2023	Les Mielles - S3	50		2	
☑	32711173	27|64	insect - hymenopteran	*Bombus terrestris*	Buff-tailed Bumblebee	49.226	-2.22400000000001	29/08/2023	Les Mielles - S2	50		2	
☑	32616287	27|64	insect - hymenopteran	*Bombus pascuorum*	Common Carder Bee	49.226	-2.22700000000001	22/08/2023	Les Mielles - S6	50		2	
☑	32616267	27|64	insect - hymenopteran	*Bombus lapidarius*	Red-tailed Bumblebee	49.225	-2.22499999999998	22/08/2023	Les Mielles - S4	50		4	
☑	32616261	27|64	insect - hymenopteran	*Bombus pascuorum*	Common Carder Bee	49.225	-2.22499999999998	22/08/2023	Les Mielles - S4	50		1	
☑	32616255	27|64	insect - hymenopteran	*Bombus lapidarius*	Red-tailed Bumblebee	49.226	-2.22299999999999	22/08/2023	Les Mielles - S3	50		2	

Showing first 30 of 2201 | Previous | Next | Rows per page: 30 | Download

Save filter as:



Records | Species | Families | Groups | Photos | **Downloads**

Downloads you create using the buttons under the data grids on the other tabs will appear here.

Done

Files:

Download .zip file
File containing 2201 occurrences. Available until 17:40.

NatureSpot

Recording the Wildlife of Leicestershire & Rutland

Leicestershire and Rutland NatureSpotters Wanted!

Wildlife is in trouble & effective conservation relies on knowing the status of each species. You can help by logging your wildlife sightings on NatureSpot (**website** | **mobile app**). **Do I need to register?** *If you care about wildlife, record it!* We need data on all species, common or rare. All records are passed on to local & national bodies & used to further our conservation knowledge. NatureSpot only collects data for Leicestershire & Rutland. If you record elsewhere, please use **iRecord**.

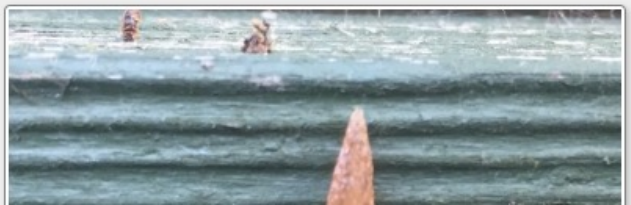
Login

Username*

Password*

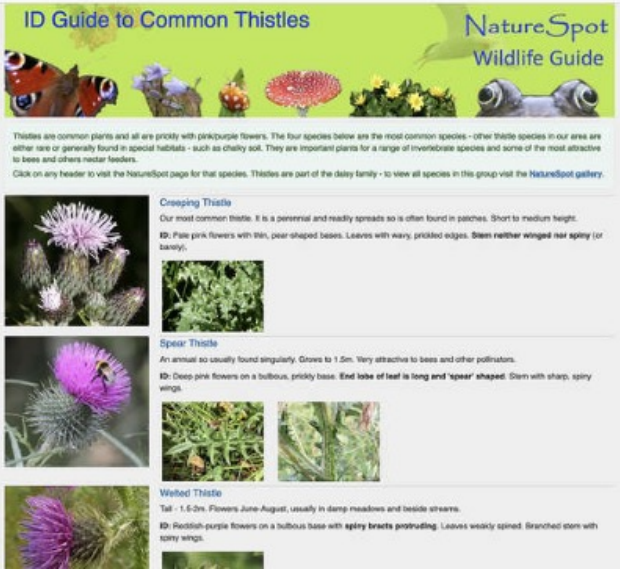
Log in

- Create new account
- Reset your password



News

NatureSpot ID Guide to Common Thistles



DONATE

Please support NatureSpot

Identify 100 Species

Can you to identify 100 species from 10 different wildlife groups?

Leicestershire & Rutland Recorders Meeting
Sunday 29th October 2023 **FREE**
Online 10am - 12.40pm **Book Now**

Search

Total count of species: 7714 ?

Wild places

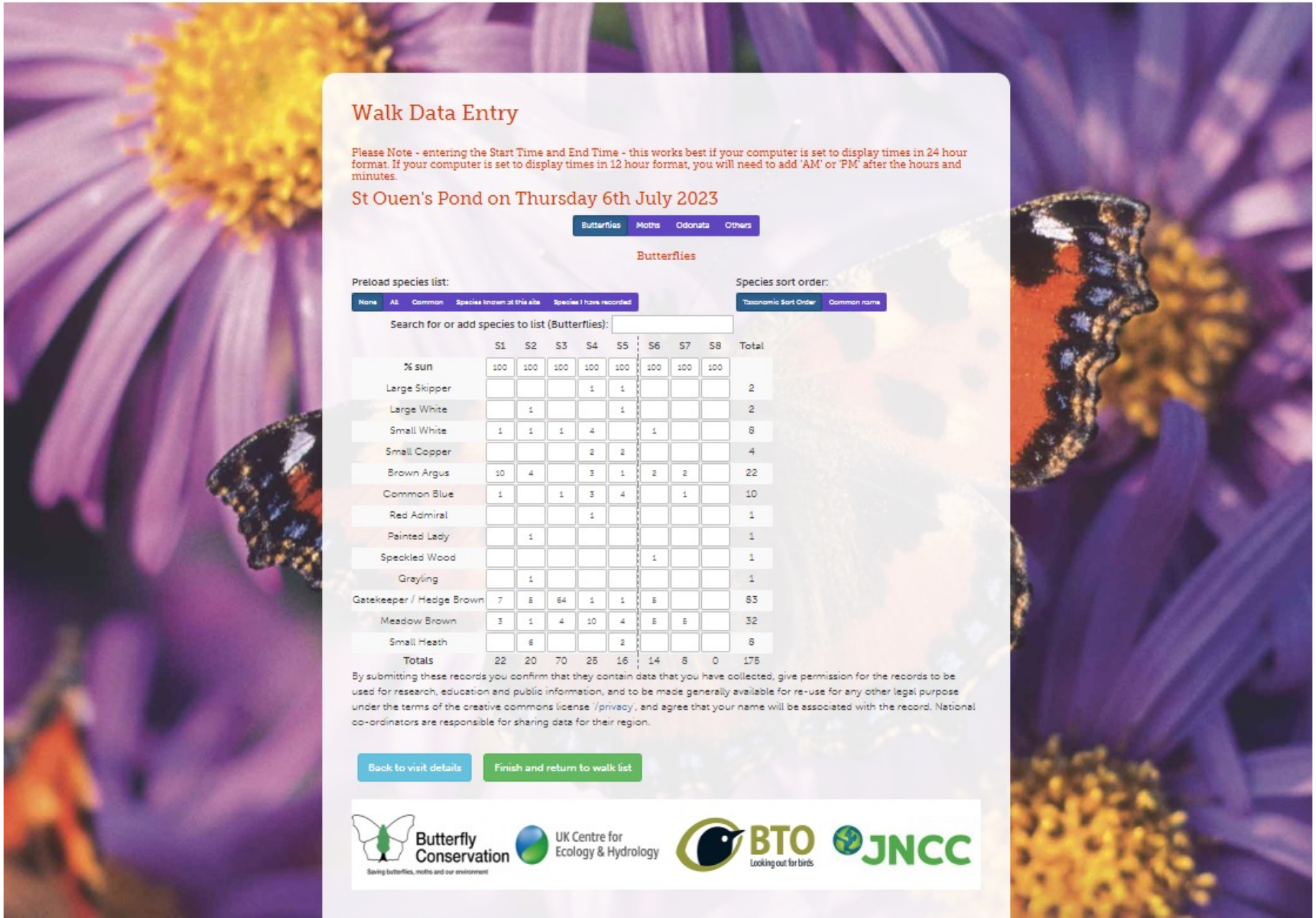
20 Acre Piece NR Go

Parishes / Wards

Arnesby Go

Species pages

The galleries below link to information pages for every species recorded on NatureSpot (except those lacking images). The arrow alongside will open the family level sub-menu.



Walk Data Entry

Please Note - entering the Start Time and End Time - this works best if your computer is set to display times in 24 hour format. If your computer is set to display times in 12 hour format, you will need to add 'AM' or 'PM' after the hours and minutes.

St Ouen's Pond on Thursday 6th July 2023

Butterflies | Moths | Odonata | Others

Butterflies

Preload species list: None | All | Common | Species known at this site | Species I have recorded

Species sort order: Taxonomic Sort Order | Common name

Search for or add species to list (Butterflies):

	S1	S2	S3	S4	S5	S6	S7	S8	Total
% sun	100	100	100	100	100	100	100	100	
Large Skipper				1	1				2
Large White		1			1				2
Small White	1	1	1	4		1			8
Small Copper				2	2				4
Brown Argus	10	4		3	1	2	2		22
Common Blue	1		1	3	4		1		10
Red Admiral				1					1
Painted Lady		1							1
Speckled Wood						1			1
Grayling		1							1
Gatekeeper / Hedge Brown	7	5	64	1	1	5			83
Meadow Brown	3	1	4	10	4	5	5		32
Small Heath		6			2				8
Totals	22	20	70	25	16	14	8	0	175

By submitting these records you confirm that they contain data that you have collected, give permission for the records to be used for research, education and public information, and to be made generally available for re-use for any other legal purpose under the terms of the creative commons license '/privacy', and agree that your name will be associated with the record. National co-ordinators are responsible for sharing data for their region.

Back to visit details | Finish and return to walk list

Butterfly Conservation — Saving butterflies, moths and our environment | UK Centre for Ecology & Hydrology | BTO Looking out for birds | JNCC

Welcome

European Butterfly Monitoring Scheme - eBMS

*The data elements (entering data, viewing and downloading data) of this website will be **unavailable on Wednesday 27 September** while we move to a new server. Apologies for any inconvenience. During this period the ButtefleyCount app can still be used to add records, which can be uploaded once we are back online.*

Become a volunteer counting butterflies!!

Help us counting butterflies, it will increase the knowledge of butterflies and we could protect them better. There are already thousands of volunteers throughout Europe helping in butterfly conservation.

If you would like to join eBMS and collaborate in the Butterfly Monitoring Scheme you just need to register. Follow **this link** to the My Data section and you will find a Quick Guide for setting up butterfly monitoring.

- Join one of the biggest citizen science network

- Monitoring butterflies in your area, you will contribute to science

POMS
UK Pollinator Monitoring Scheme

English

MENU

Enter results from your FIT Count

The 2023 PoMS recording season started on 1 April and runs until 30 September. Thanks to everyone who is taking part this year.

Please add the results from your FIT Count for any date between 1 April and 30 September 2022 See all the counts for the current season on the FIT Counts map.

(If you are taking part in the 1 km square surveys and have FIT Count data to enter from your square please use the 1 km square FIT Count form)

If you are entering several counts you can use the green padlock symbols to 'lock' many of the boxes, so that you only need to enter your choice once - the setting will be remembered when you add your next count

Your name: Jon Rault *

Please add the recorder's name, if it is not already shown, using the format "First name Surname"

Date of FIT Count: dd/mm/yyyy *

Logo	About	Url of website		Download
	iRecord App	iRecord	The iRecord App enables you to get involved with biological recording.	App Store / Google play
	Flower-Insect Timed Count (FIT Count) App	UK Pollinator Monitoring Scheme	Spend ten minutes watching flowers and insects in good weather! Help assess changes in abundance of broad groups (e.g. bumblebees, hoverflies) of wild pollinators, from April to September.	App Store / Google play
	iRecord Butterflies	iRecord	Wherever you see butterflies, you can help us discover how they're faring by recording your sightings with the iRecord Butterflies app.	App Store / Google play
	Asian Hornet Watch	iRecord	Asian Hornet Watch is an app designed to identify, record and help with the early detection of the non-native Asian Hornet in the UK following the first confirmed record in September 2016.	App Store / Google play
	E-Surveyor	E-Surveyor	E-Surveyor is a free mobile app that helps farmers and landowners to assess the quality of habitats they manage. It can be used to undertake the assessment of agri-environment schemes.	App Store / Google play
	Bloomin' Algae	Bloomin' Algae Project	Bloomin' Algae is a Citizen Science app for reporting the presence of harmful algal blooms of blue-green algae.	App Store / Google play
	iRecord Grasshoppers	Grasshoppers and Related Insects	Photos, information & sound files to help identify and record the grasshoppers and crickets you find, with heterodyne "bat recorder" and live sonograms feature.	App Store / Google play
	ButterflyCount App	European Butterfly Monitoring Scheme website	Contribute to butterfly conservation by providing important information on where different species occur and the numbers found in different places across Europe.	App Store / Google play
	iMammalia App	iMammalia App website	Designed to encourage recording of mammals in the wild. Records will be verified by experts and made available to help with mapping the distribution of European mammals.	App Store / Google play
	European Ladybirds	European Ladybirds	The European Ladybird Survey aims to encourage the recording of ladybirds across Europe.	App Store / Google play
	Dynamic Dunescapes	Dynamic Dunescapes website	By identifying and recording plant species, you can help scientists and conservationists protect and restore biodiverse sand dune habitats in England and Wales, using this app.	App Store / Google play
	Rare Arable Flowers	iRecord	The Rare Arable Flowers app aims to support UK-wide monitoring of this important group of species and help to inform efforts for their conservation.	App Store / Google play
	What's Flying Tonight App		An app developed in partnership with Butterfly Conservation and UKMoths, to help you identify what moths you see, based on your location and the date.	Visit App Website

Login as >> Jon Rault

iRecord

Home | Record | Explore | Summarise | Activities | Verify | Forum | Help | My account | Log out

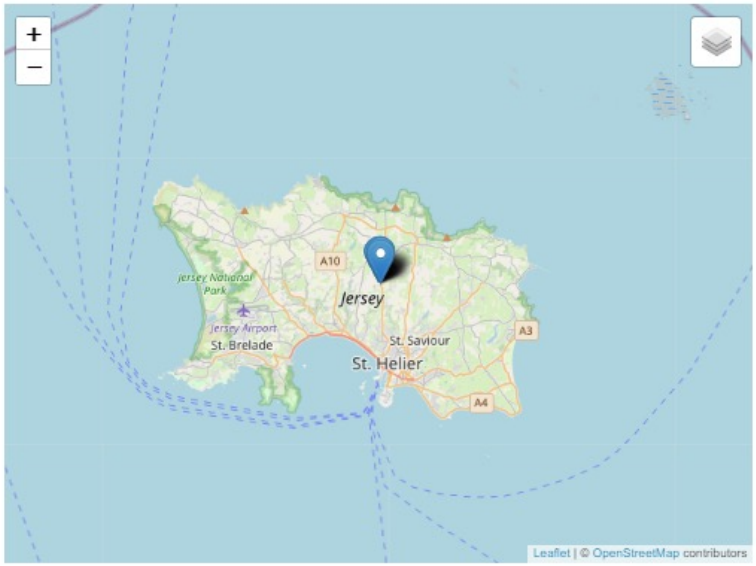
iRecord and related Indicia systems will be **unavailable on Wednesday 27 September** while we move to a new server. Apologies for any inconvenience. During this period the iRecord apps can still be used to add records, which can be uploaded once we are back online.

You have not yet specified a media licence. This limits the usefulness of your images. **To set a licence, edit your profile page and select an option.**

Home

Welcome back Jon Rault. **You have 1 unread notification.**

24,765,301 records | 31,331 species | 6,850,928 photos | 258,485 recorders



Could you make use of Targeting Revisits Maps?

Designed to help wildlife recorders make the most of their time out recording insects, Targeting Revisits Maps are available to guide people to where records of the following species are most needed:

- Craneflies
- Grasshoppers and bushcrickets
- Ground beetles
- Ladybirds
- Soldierflies

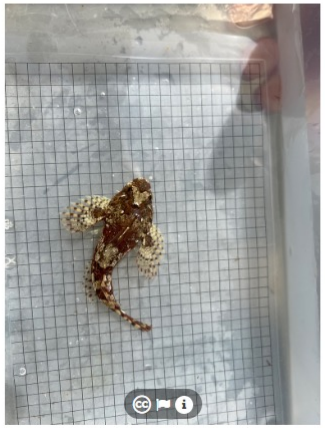
Hopefully these will inspire you to go out and record in new places or to record groups you haven't recorded before.

Find out more here and please give feedback here.

Recent sightings

Longspined Bullhead (*Taurulus bubalis*) Research Grade

Edit



jon_rault
8 observations

Observed:
May 21, 2023 · 15:18 BST

Submitted:
May 21, 2023 · 15:18 BST

North Atlantic Ocean, Jersey, GB Details

Be the first to fave this observation!

Activity

jon_rault suggested an ID Improving 4mo

Longspined Bullhead
Taurulus bubalis
Compare

[redacted] suggested an ID 4mo

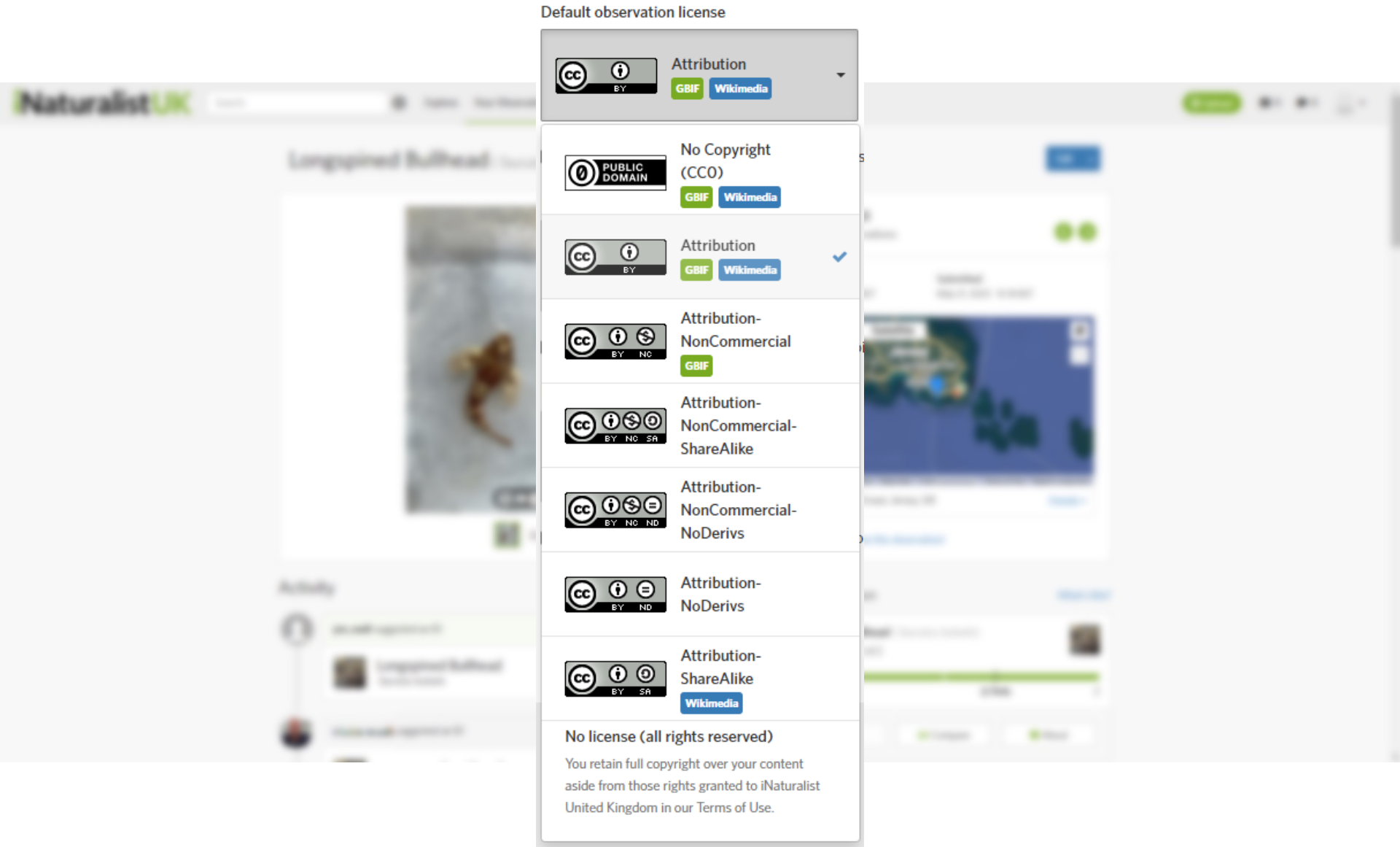
Community Taxon

What's this?

Longspined Bullhead (*Taurulus bubalis*)
Cumulative IDs: 2 of 2

0 2/3rds 2

Agree Compare About


Default observation license
Attribution
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Wikimedia
No Copyright
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GBIF
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GBIF
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ShareAlike
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NonCommercial-
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You retain full copyright over your content aside from those rights granted to iNaturalist United Kingdom in our Terms of Use.

BirdTrack

Welcome

[redacted]

Log Out

Your options

- Home
- Add records
- My records
- My places
- My preferences
- Management
- Upload records
- Explore data
- Notifications
- Help
- Contact us

BirdTrack Partners

BTO, SOC, RSPB giving nature a home, BirdWatch Ireland

Activity Feed

03/12/2018 - [redacted], Woodbridge
Casual list
9 bird species seen, including Collared Dove (13), House Sparrow, and Starling (50)
Tweet | Facebook
Added 14 hours ago

01/12/2018 - [redacted], Woodbridge
Casual list
9 bird species seen, including Collared Dove, House Sparrow, and Starling
Tweet | Facebook
Added 14 hours ago

30/11/2018 - Brussels
Casual list
8 bird species seen, including Ring-necked Parakeet, Feral Pigeon, and Kestrel
Tweet | Facebook
Added 3 days ago

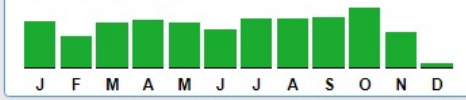
less | more

Recent Sightings

My lists/species

Species | Lists

Species this month: 12
Species this year: 226



High scores

Complete lists this month

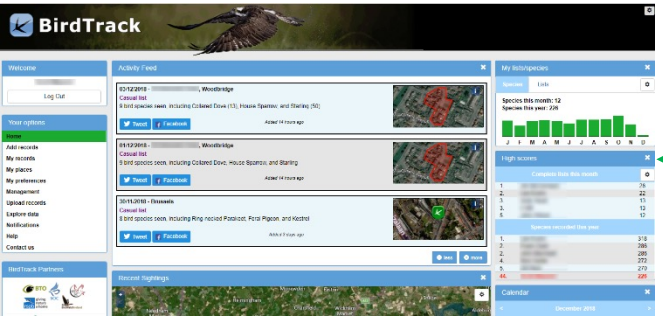
1.	[redacted]	26
2.	[redacted]	22
3.	[redacted]	13
3.	[redacted]	13
5.	[redacted]	12

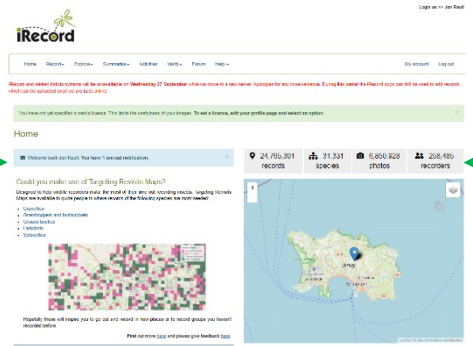
Species recorded this year

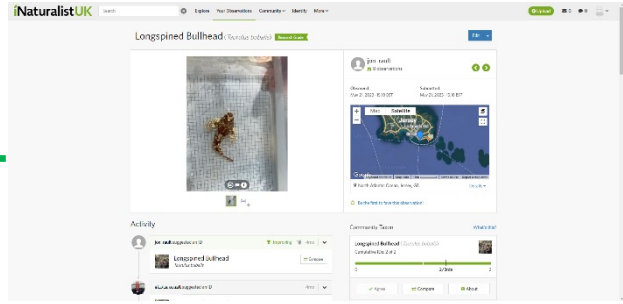
1.	[redacted]	318
2.	[redacted]	286
2.	[redacted]	286
4.	[redacted]	272
5.	[redacted]	270
44.	[redacted]	226

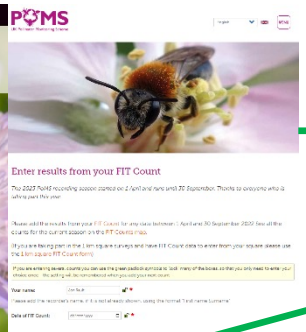
Calendar

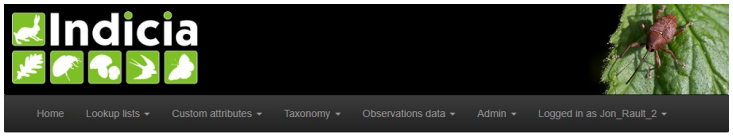
< December 2018 >











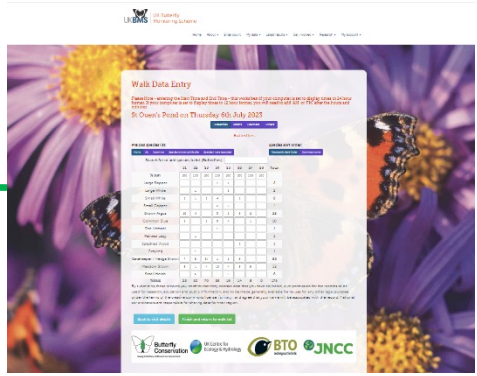
Home

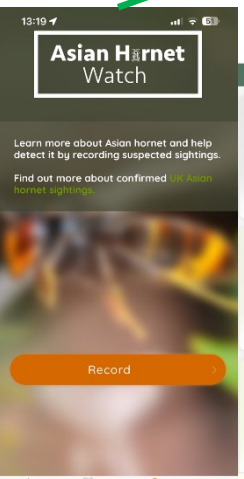
Welcome to the Indicia Warehouse!

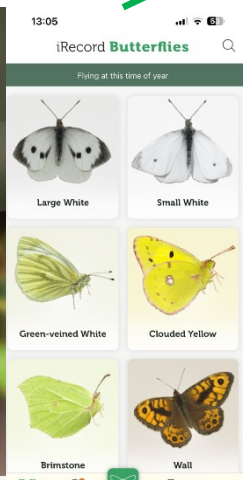
Indicia is a toolkit that simplifies the construction of new websites which allow data entry, mapping and reporting of wildlife records. Indicia is an Open Source project managed by the Biological Records Centre, within the NERC Centre for Ecology & Hydrology.

- Indicia project website
- Indicia on GitHub

Indicia Warehouse | Indicia version 8.23.4



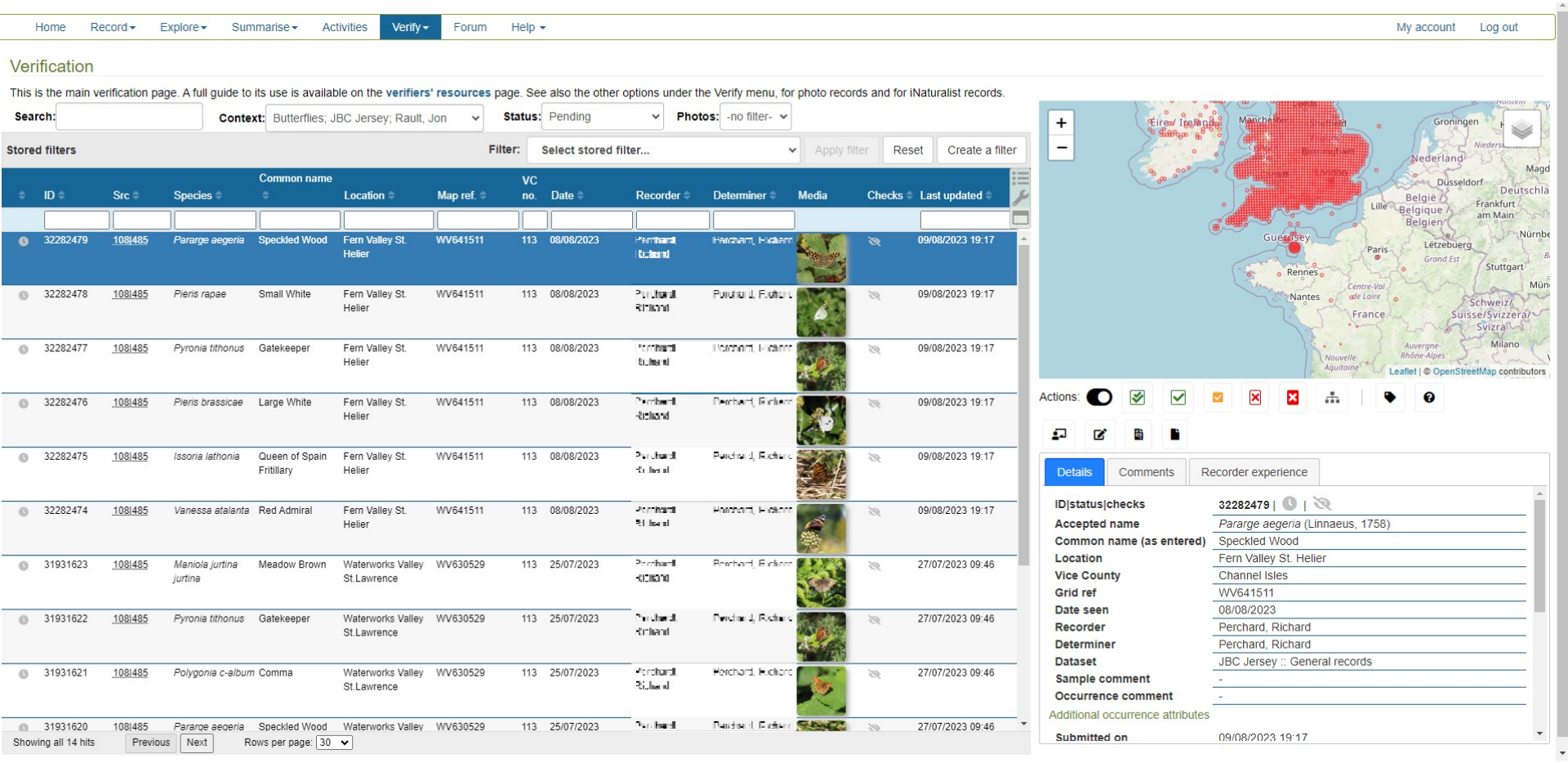




Bailiwick of Jersey Website

Bailiwick of Guernsey Website

Verification



Verification

- Is the record acceptable for the recording scheme?
- Is there a photo that shows the species has been correctly identified?
- In the absence of a photo:
  - is the location and date likely?
  - is the record from a regular recorder or are they new to recording?
- Verifiers can query records and ask the recorder for more information.
- Not all records provide enough evidence to accept.
- The number of records that can be accepted either immediately or following some queries is actually a very high proportion.

Alderney Wildlife Trust
Guernsey Biological Records Centre
Jersey Biodiversity Centre

Ongoing Development

- JNCC and UKCEH have agreed a 5-year programme to support the work of BRC, including Indicia support and development.

- Continue to increase capacity of servers and databases to ensure performance keeps up with demand.
- Support schemes that want to move their data into Indicia.
- Review feedback from verifier survey.
- Continue to work on data quality and filtering.
- Updates and enhancements to record cleaner tool.

Ongoing Development

- JNCC and UKCEH have agreed a 5-year programme to support the work of BRC, including Indicia support and development.

- Image Recognition:
  - Implemented in iRecord apps.
  - Accuracy improving.
  - How best can this support verification?

PLOS ONE

RESEARCH ARTICLE

A repeatable scoring system for assessing Smartphone applications ability to identify herbaceous plants

Neil Campbell[1], **Julie Peacock**[2], **Karen L. Bacon**[1]*

1 Botany & Plant Science, School of Natural Science, University of Galway, Galway, Ireland, **2** School of Geography, University of Leeds, Leeds, United Kingdom

* karen.bacon@nuigalway.ie

Check for updates

OPEN ACCESS

Citation: Campbell N, Peacock J, Bacon KL (2023) A repeatable scoring system for assessing Smartphone applications ability to identify herbaceous plants. PLoS ONE 18(4): e0283386. https://doi.org/10.1371/journal.pone.0283386

Editor: Gianniantonio Domina, University of Palermo, ITALY

Received: August 23, 2022

Accepted: March 7, 2023

Published: April 5, 2023

Abstract

The ubiquity of Smartphone applications that aim to identify organisms, including plants, make them potentially useful for increasing people's engagement with the natural world. However, how well such applications actually identify plants has not been compressively investigated nor has an easily repeatable scoring system to compare across plant groups been developed. This study investigated the ability of six common Smartphone applications (Google Lens, iNaturalist, Leaf Snap, Plant Net, Plant Snap, Seek) to identify herbaceous plants and developed a repeatable scoring system to assess their success. Thirty-eight species of plant were photographed in their natural habitats using a standard Smartphone (Samsung Galaxy A50) and assessed in each app without image enhancement. All apps showed considerable variation across plant species and were better able to identify flowers than leaves. Plant Net and Leaf Snap outperformed the other apps. Even the higher preforming apps did not have an accuracy above ~88% and lower scoring apps were considerably below this. Smartphone apps present a clear opportunity to encourage people to engage more with plants. Their accuracy can be good, but should not be considered excellent or assumed to be correct, particularly if the species in question may be toxic or otherwise problematic.

Ongoing Development

- JNCC and UKCEH have agreed a 5-year programme to support the work of BRC, including Indicia support and development.

- Data visualization
  - Help local records centres and recording schemes to visualize data.
  - Provide feedback to recorders showing how their records contribute to the bigger picture.
  - Maps and phenology charts added to iRecord.
  - Data visualisations added to the UK Pollinator Monitoring Scheme Website.

Insect groups visiting PoMS target flowers

Submitted by admin on Tue, 07/06/2021 - 10:02

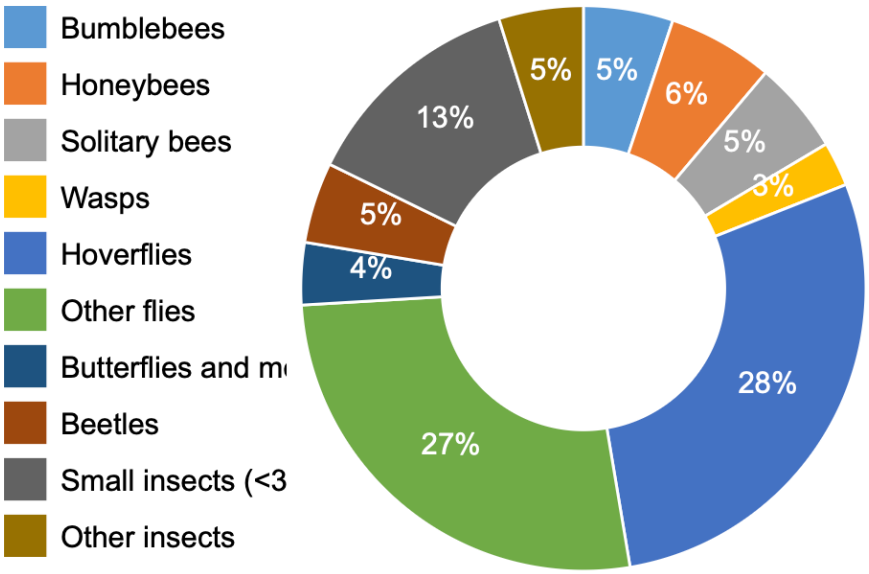
The charts below allow you to explore how frequently different insect groups visit the PoMS target flowers, based on the data collected during the Flower-Insect Timed Counts (FIT Counts). The figures get updated 'live' as more counts are added via our website and app.

Choose the flower that you wish to explore from the dropdown list, and then hover over or click on the chart to highlight the insect groups.

The charts are based on data from all FIT Counts submitted from the UK and Isle of Man, between 1 April and 30 September each year since PoMS started collecting data in 2017. PoMS data is subject to review, and totals shown here may differ from our published datasets and reports.

Ragwort

Insects counted on **Ragwort** showing the proportion from each group. A total of **12962 insects** have been counted during **1003 FIT Counts** - an average of **13 insects per 10-minute count**.



Erica cinerea

Summary | Conservation | Gallery | Trends | Phenology | Altitude

Overview | Zoomable

Distribution overview

Show status

Colour elevation

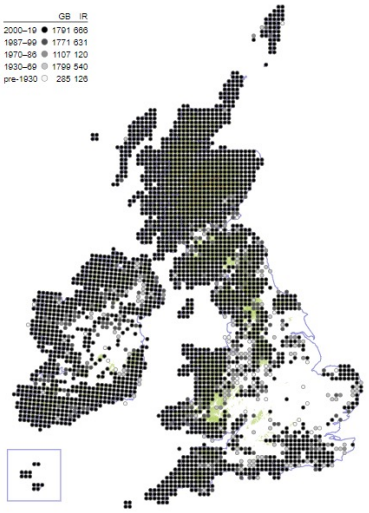
Channel Isles inset

No grid lines

No boundaries

Download image PNG SVG

Download data CSV GJSON



Hectad:
Most recent dateclass:

Bell Heather
Erica cinerea
L.

A small shrub of thin, acidic, peaty or mineral soils in well-drained situations, on dry and montane heathlands, and as an occasional undershrub in open-canopy *Pinus sylvestris* or *Quercus* woodland. It is also found in some limestone or chalk heaths on calcareous soils that are leached and acidic at the surface. 0–900 m (Stuchd an Lochain, Mid Perthshire), and with an exceptional record at 1,210 m on Ben Macdui (South Aberdeenshire), previously considered to be a doubtful historical record, but refound in 2010.

Native.

Trends

Post-1930 effort-adjusted 10 km trends

Britain:

Ireland:

Post-1987 effort-adjusted 10 km trends

Britain:

Ireland:

The 10 km square distribution of *E. cinerea* appears to be stable in much of northern and western Britain and Ireland but has declined markedly towards the lowland margins of its range since the 1960s, particularly in southern England due to the loss of heathlands to agriculture, quarrying and forestry. It has also disappeared from many former limestone and chalk heath sites through encroachment of rank grass and scrub following reduction in sheep and rabbit grazing.

Biogeography

Oceanic Temperate element.

Authors

Erica cinerea

Summary | Conservation | Gallery | Trends | Phenology | Altitude

Overview | Zoomable

Change maps

1930–69 v. 2000–19

1987–99 v. 2000–19

Colour elevation

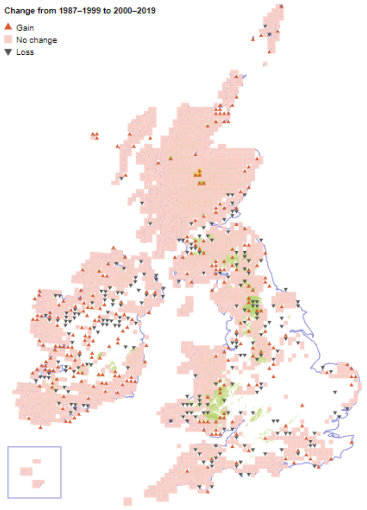
Channel Isles inset

No grid lines

No boundaries

Download image PNG SVG

Download data CSV GJSON



Hectad:
Change:

Bell Heather
Erica cinerea
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Biogeography

Oceanic Temperate element.

Authors

Erica cinerea

Summary | Conservation | Gallery | Trends | Phenology | Altitude

Britain

Long-term trend (post-1930)

Scale trends to species

Scale density plot to max

Fig 1 - smoothed time trend

Download PNG SVG

Bell Heather *Erica cinerea* L.

Post-1930 effort-adjusted 10 km distribution trends for **Britain**

Figure 1. Smoothed time trend.

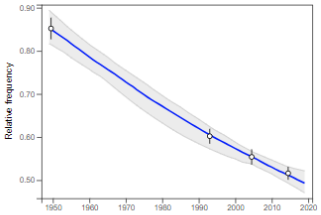


Figure 2. 100 compatible linear trends.

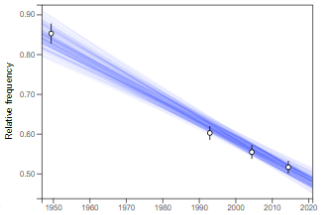


Figure 3. Distribution of linear slope estimates.

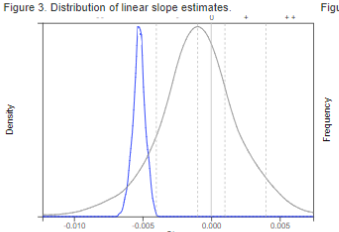
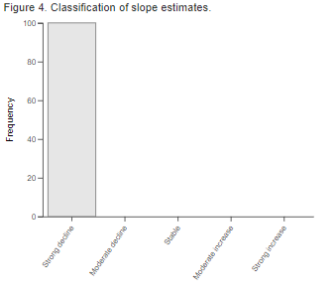


Figure 4. Classification of slope estimates.



Erica cinerea

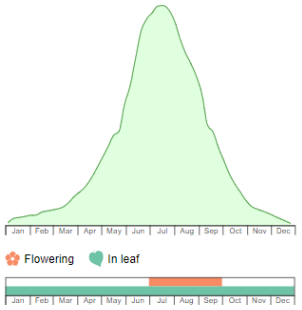
Summary | Conservation | Gallery | Trends | Phenology | Altitude

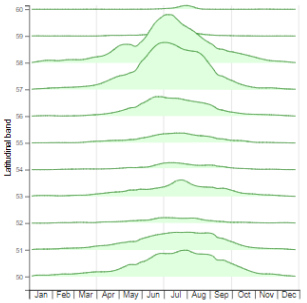
Scale by relative abundance

Overall apparency

Download PNG SVG

Bell Heather *Erica cinerea* L.



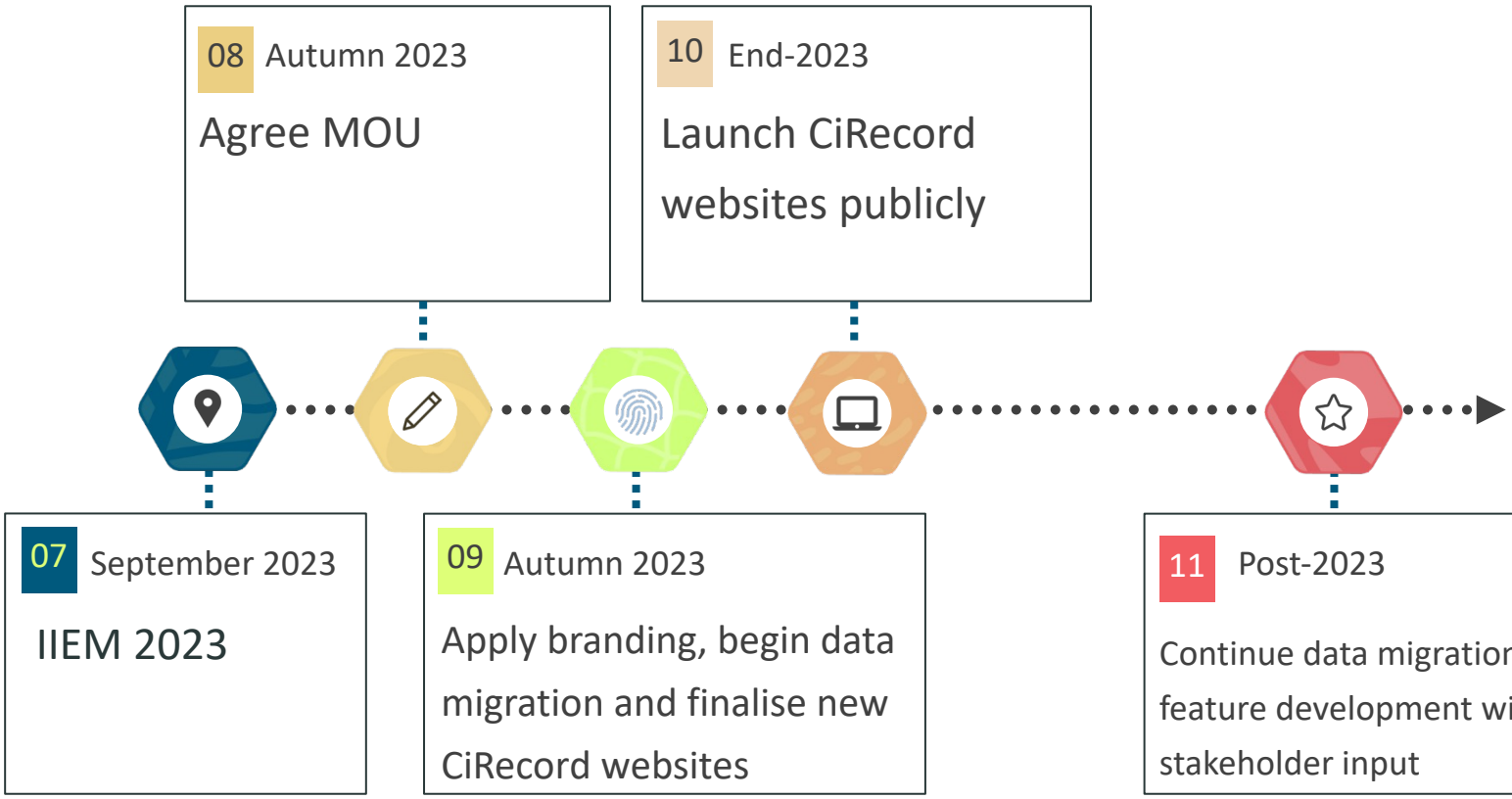


Botanical Society of Britain & Ireland

UK Centre for Ecology & Hydrology

BRC Biological Records Centre

Next steps



Alderney Wildlife Trust

Guernsey Biological Records Centre

Jersey Biodiversity Centre

Potential future developments

- Sharing knowledge and resources: A CI Projects Hub
  - Useful resources for all islands
    - INNS reporting – develop priority maps for where to look?

  - Useful knowledge sharing
    - Instant data sharing of movements of wide-ranging species, helping other islands to target survey effort?

Biological Records Centre | UK Centre for Ecology & Hydrology

Home | Recording | Research | Resources | BRC Partners | Staff

Targeting Revisits Maps to help get the most out of insect recording

To help wildlife recorders make the most of their time out recording insects, we've created the Targeting Revisits Maps to guide people to where records of some of these species are most needed.

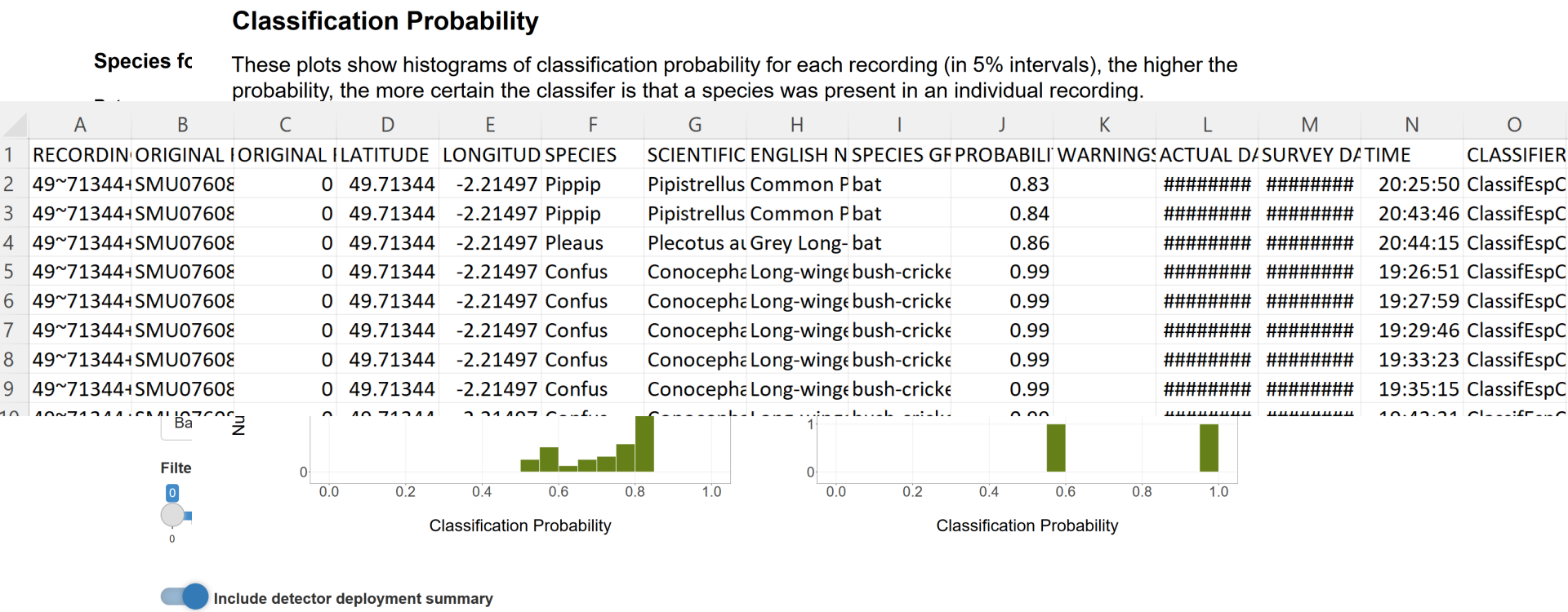
A Targeting Revisits Map shows the pattern of recording in 1km grid squares and highlights squares that are 'well recorded' (with records from more than one year) and squares that are 'targets for revisits' (with records from only one year in the past). Can you visit squares and make records, and so turn the pink squares green?

We have Targeting Revisits Map for:

- Grasshoppers and bushcrickets
- Craneflies
- Ground beetles

Potential future developments

- Data explorers and data visualisation



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	RECORDIN	ORIGINAL I	ORIGINAL I	LATITUDE	LONGITUD	SPECIES	SCIENTIFIC	ENGLISH N	SPECIES GF	PROBABILI	WARNINGS	ACTUAL DA	SURVEY DA	TIME	CLASSIFIER
2	49~71344	SMU07608	0	49.71344	-2.21497	Pippip	Pipistrellus	Common P	bat	0.83		########	########	20:25:50	ClassifEspC
3	49~71344	SMU07608	0	49.71344	-2.21497	Pippip	Pipistrellus	Common P	bat	0.84		########	########	20:43:46	ClassifEspC
4	49~71344	SMU07608	0	49.71344	-2.21497	Pleaus	Plecotus au	Grey Long-	bat	0.86		########	########	20:44:15	ClassifEspC
5	49~71344	SMU07608	0	49.71344	-2.21497	Confus	Conocepha	Long-winge	bush-cricke	0.99		########	########	19:26:51	ClassifEspC
6	49~71344	SMU07608	0	49.71344	-2.21497	Confus	Conocepha	Long-winge	bush-cricke	0.99		########	########	19:27:59	ClassifEspC
7	49~71344	SMU07608	0	49.71344	-2.21497	Confus	Conocepha	Long-winge	bush-cricke	0.99		########	########	19:29:46	ClassifEspC
8	49~71344	SMU07608	0	49.71344	-2.21497	Confus	Conocepha	Long-winge	bush-cricke	0.99		########	########	19:33:23	ClassifEspC
9	49~71344	SMU07608	0	49.71344	-2.21497	Confus	Conocepha	Long-winge	bush-cricke	0.99		########	########	19:35:15	ClassifEspC

Alderney Wildlife Trust
Guernsey Biological Records Centre
Jersey Biodiversity Centre

What this means for local experts

- Data access – easier to access and view records within the Bailiwicks
- Data uploading – gradual move to standardised Indicia forms (hopefully!) means this should be relatively painless and help can be given!
- Verifying data – local experts willing to verify data in CI greatly appreciated, particularly for general recording apps (e.g. iRecord)
    - Willing verifiers can email irecord@ceh.ac.uk, explain a bit about your expertise, and if approved by the UK recording scheme (e.g. Butterfly Conservation), you're all set to verify!
    - Without verification, records can't pass to NBN or GBIF

Alderney Wildlife Trust
Guernsey Biological Records Centre
Jersey Biodiversity Centre

Thanks to:

- All contributing funders.
- All contributing recorders.
- The national and local recording schemes/groups and their verifiers.

Alderney Wildlife Trust

Guernsey Biological Records Centre

Jersey Biodiversity Centre

Thank You for Listening

Questions?

Guernsey Biological Records Centre

Elizabeth Sweet – Manager, Guernsey Biological Records Centre.
gsybiorecords@gmail.com

Alderney Wildlife Trust

Matthew Lewis – Manager, Alderney Biodiversity Centre (an Alderney Wildlife Trust Project).
ecologist@alderneywildlife.org

Jersey Biodiversity Centre

Jon Rault – Manager, Jersey Biodiversity Centre.
jon@societe.je