

Orca - An alternative to Recorder 'Made in Wales'

Roy Tapping

Background

- Cofnod established in 2005 - Early 2006 reviewed Recorder 2000
- Too complex and didn't suit our requirements
 - standalone
 - no metadata storage
 - customer relationship database
 - no spatial querying
- The team had database, GIS and web development skills
- Microsoft SQL Server offered as part of our server purchase
- Go our own way!

Considerations

- Something that was expandable and flexible
- Could we use a flat file structure?
- Could we use the NBN species dictionary taken from Recorder?
- Could we georeference data without the complexities of Recorder?

Requirements

- A species database
- A data import system
- A data entry system (in-house, later to become the ORS)
- A data management system (metadata)
- A GIS for sites, habitats, mapping species and spatial querying
- A contacts database linked to metadata and an enquiries system

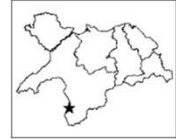
BIODIVERSITY INFORMATION SEARCH (SPECIES AND DESIGNATED SITES)

CLIENT:

WHITE YOUNG GREEN









SEARCH LOCATION:

Friog, Gwynedd



REFERENCE NUMBER: E00001

SEARCH GRID REF: SH601112

-  Search Area (4km buffer)
-  Category 1 Species
-  Category 2 Species
-  Category 3 Species
-  Mobile species search buffers
-  Site of Special Scientific Interest (SSSI)
-  Special Area of Conservation (SAC)
-  Wildlife Site (Candidate)

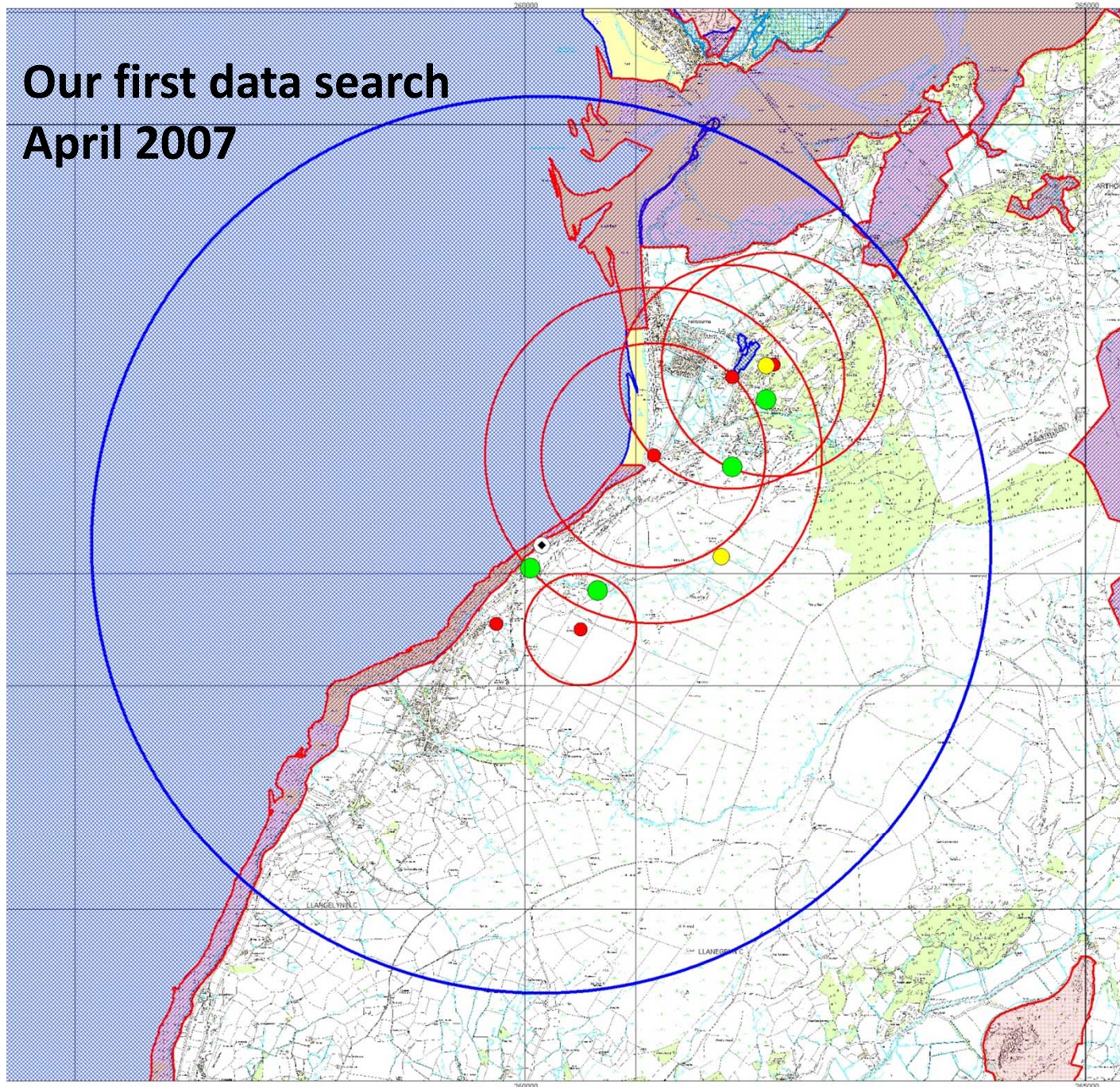
Scale 1:35000

Dynodiadau CCGC. © Hawffraint y Goron. Cedwir pob hawl.
Cyngor Cefn Gwlad Cymru 100018813 [2005].
CCW designations. © Crown Copyright. All rights reserved.
Countryside Council for Wales 100018813 [2005]

Produced on 4th May 2007 by Roy Tapping
for White Young and Green



Our first data search April 2007



How have things changed?

An integrated system with

Contacts (4089)

Organisations (656)

Correspondence (5426)

Agreements (90)

Datasets (1676)

Enquiries (5537)

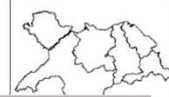
2.8 million species records and spatial data stored in a single MS SQL Server database – accessible online from anywhere

Data Searches produced in seconds in the database in **eMapper** format

BIODIVERSITY INFORMATION SEARCH
(SPECIES AND DESIGNATED SITES)

CLIENT:
WHITE YOUNG GREEN

SEARCH LOCATION:
Friog, Gwynedd



Our first data search
April 2007 – 285 records

eMapper

Feedback
Submit a Record

Friog (SH601112) Summary

Print Download
My Enquiry More Tools



Viewing Mode

Confidential Public

Key

- Search Location
- Search Buffer (2000m)
- Search Buffer (4000m)

Species

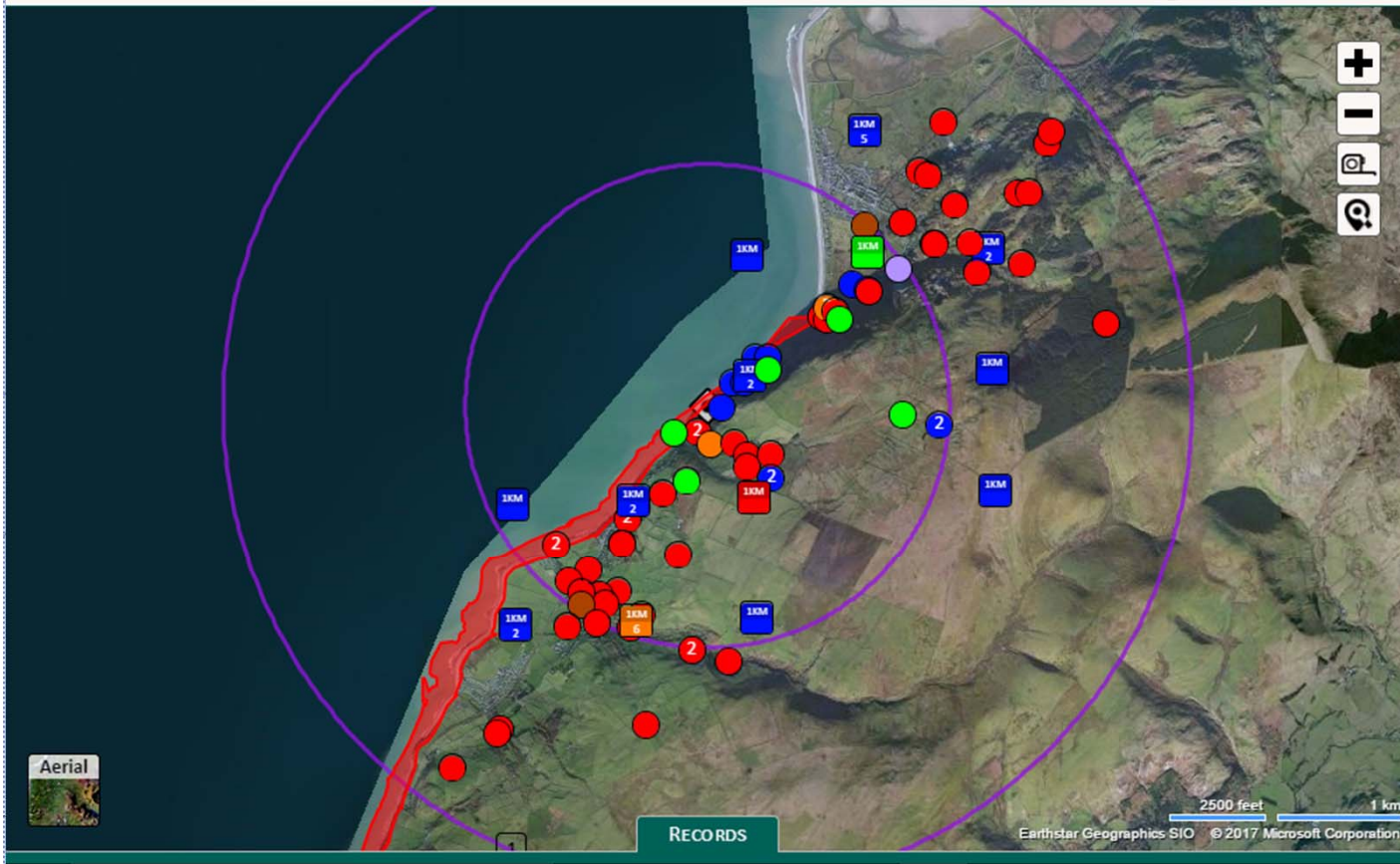
- Birds
- Butterflies and Moths
- Mammals
- Other Invertebrates
- Plants
- Reptiles and Amphibians

- Display grid reference labels
- Display species by category
- Draw 1km – 100km records as squares
- Show grid reference at cursor

View Species List

Sites

- Sites of Special Scientific Interest
- 1: 1631: Glannau Tonfanau i Friog
- Special Areas of Conservation
- Regionally Important Geodiversity Sites
- Scheduled Ancient Monuments
- Listed Buildings



for White Young and Green



<http://emapper.cofnod.org.uk/?id=3968&key=1cb4974bb2414306>

How are we today?

- Data import system - Record Cleaner rules
- Data stored in a single online database
- Spatial data, documents, photos in the database
- Online Recording System – ad hoc and projects
- Cofnod Administration System (CAS)
- Data Requests submitted through our website
- All staff can import and manage data, run data searches etc.
- Complex data management tasks and insertion of spatial data by our Systems Developer

Coming soon

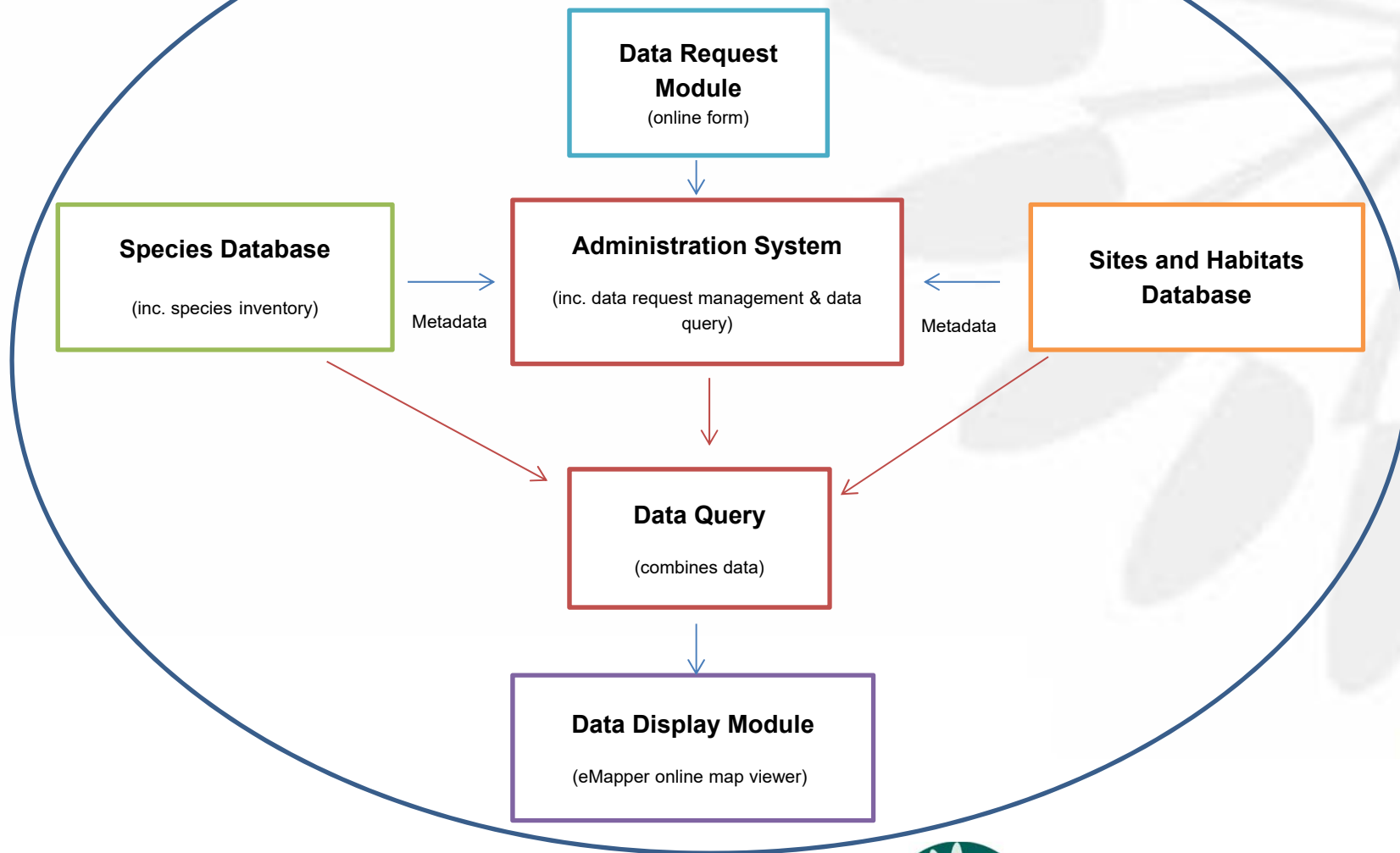
Making our customised system generic - single system called **Orca** (v2)

- Species data import module
- Species database with editing and querying tools
- Spatial data import and management tools
- Administration System (CAS+), with lots of user configuration

First deployment with LRERC started in May 2017

Orca available to other LERCs from Autumn 2017

Orca





Datasets

Metadata based on the Gemini Standard

[Export Datasets](#)

⏪ ⏩ D0001

Record 1 of 4

Dataset D0001

Title Test Dataset with plants**Subject** Species ▾**Category** 1: Dataset derived from Biological Records Centre or National Scheme/Society ▾**Metadata File** [Download 'LRERC Example data Rutland Water area ST 13_1_2017 TRUNCATED.xlsx'](#)**Expert Species Groups**

- Alga ▾
- Bacterium ▾

Dataset Status Data Collection Ongoing ▾**Update Method** New Modules ▾**Dataset Owners**

- Jennifer Batten ▾
- Tim May ▾

Dataset Contact Tim May ▾**Contact Data Holder** No**Data Collected By**

- Richard Gallon ▾

[+ New Dataset](#)[Edit Dataset](#)[Delete Dataset](#)

Dataset created on 22/11/2016 at 12:00 AM by Tim May

Dataset edited on 30/03/2017 at 9:55 PM by Tim May

Module 001 2 3 4

Module Title Test Module**Supply to NBN** Yes ▾**Restrictions**

- All grid references restricted to **1m** for Trusted Access and **10km** for Public Access
- Public Resolution applied to all records for any enquiry that is not made by the following organisation types: **Local Environmental Records Centre**
- Public Resolution applied to records newer than **2 years**
- Recorder names will be replaced with **Anon** for both



Data Import - Spreadsheets

Import Species Records

Select a Data Source for D0001/001/01

Upload a Spreadsheet

✓ LRERC Example data Rutland Water area ST 13_1_2017.xlsx



Sheet1 (17219 rows)

Available Column Headings (Click on a heading to view unique values)

- Taxon - Taxonomy Key ()
- Taxon - Validation (LRERC Validation)
- Taxon - No. range ()
- Taxon - Amount of Evidence ()
- Taxon - No. of individuals ()
- Survey Tags
- Taxon group
- Recommended Taxon Name
- TaxonName
- Specimen Type
- Specimen Number
- Specimen Comment
- Obs Record Type
- Obs Determiner
- Obs Surveyor's Ref
- Obs Comment
- Sample Recorders
- Sample Location Name
- Sample Location
- Sample Date
- Sample Comment
- Sample Spatial Reference
- Event Comment
- Survey Name
- Recommended Common Name
- Sample Type
- Obs Confide

Match Column Headings

Original ID *	ObsKey	Recorder Name *	Sample Recorders
Scientific Name *	Recommended Taxon Name	Determiner Name	Obs Determiner
Grid Reference *	Sample Spatial Reference	Count / Full Abundance	Taxon - No. of individuals ()
Grid Reference Type	-IGNORE-	Abundance Qualifier	-IGNORE-
Site Name	Sample Location	Notes	Obs Comment
Additional Site Name	Sample Location Name	Record Type	Obs Record Type
Date / Date From *	Sample Date	Sample Type	Sample Type
Date To	-IGNORE-	Source	-IGNORE-
Approximate Date?	-IGNORE-	Processing Notes	-IGNORE-

Record Cleaner+ - Including species matching from the NHM Species Inventory

Import Species Records

D0001/001/01
17219 Initial Total
17219 Current Total
17186 Total Passed ▾
33 Total Failed ▾
0 Total Rejected ▾

Species ✓
Dates
Locations
Text Fields
Review Notes
Duplicates

Tools ▾
Cancel
Settings
Validate Dates

▲ 33 records failed validation. Correct or dismiss any errors and run validation again.

ID	Species	Date From	Date To	
<input type="checkbox"/>	SR00061100003S8Q Bat (<i>Chiroptera</i>)	1992 - 1993		▲ Unable to interpret Date From
<input type="checkbox"/>	SR00061100004YJ8 Nightingale (<i>Luscinia megarhynchos</i>)	April 2002 - June 2002		▲ Unable to interpret Date From
<input type="checkbox"/>	SR00061100008RD1 <i>Pterostichus (Pseudomaseus) nigrita</i>	2001 - 2002		▲ Unable to interpret Date From
<input type="checkbox"/>	SR00061100008SOH <i>Stomis pumicatus</i>	2001 - 2002		▲ Unable to interpret Date From
<input type="checkbox"/>	SR0006110000GMNC Dark-edged Bee-fly (<i>Bombylius major</i>)	March 2003 - May 2003		▲ Unable to interpret Date From
<input type="checkbox"/>	SR0006110000GMND St Marks Fly (<i>Bibio marci</i>)	March 2003 - May 2003		▲ Unable to interpret Date From
<input type="checkbox"/>	SR0006110000GMZ2 Hawthorn Shieldbug (<i>Acanthosoma haemorrhoidale</i>)	March 2003 - May 2003		▲ Unable to interpret Date From
<input type="checkbox"/>	SR0006110000JHB6 2-spot Ladybird (<i>Adalia bipunctata</i>)	March 2003 - August 2003		▲ Unable to interpret Date From
<input type="checkbox"/>	SR0006110000GOZK Roesel's Bush-cricket (<i>Metrioptera roeselii</i>)	July 2004 - August 2004		▲ Unable to interpret Date From
<input type="checkbox"/>	SR0006110000GOZL Roesel's Bush-cricket (<i>Metrioptera roeselii</i>)	July 2004 - August 2004		▲ Unable to interpret Date From
<input type="checkbox"/>	SR00061100008M4N <i>Clivina fossor</i>	2001 - 2002		▲ Unable to interpret Date From
<input type="checkbox"/>	SR00061100008SOI <i>Trechus (Trechus) quadristriatus</i>	2001 - 2002		▲ Unable to interpret Date From
<input type="checkbox"/>	SR00061100004YH1 Nightingale (<i>Luscinia megarhynchos</i>)	April 2002 - May 2002		▲ Unable to interpret Date From
<input type="checkbox"/>	SR00061100004YH2 Nightingale (<i>Luscinia megarhynchos</i>)	April 2002 - May 2002		▲ Unable to interpret Date From
<input type="checkbox"/>	SR00061100004YH3 Nightingale (<i>Luscinia megarhynchos</i>)	April 2005 - May 2005		▲ Unable to interpret Date From
<input type="checkbox"/>	SR00061100004YH4 Nightingale (<i>Luscinia megarhynchos</i>)	April 2002 - May 2002		▲ Unable to interpret Date From

Data filtering, mapping and editing

🏠 Home
👤 Contacts
🏢 Organisations
📄 Datasets
📄 Agreements
✉ Correspondence
More ▾
🕒 Timesheet
🚪 Log Out

★ 999 Records Page 4 of 50

☑ ⏪ ⏩ 20 records per page ▾
🔍 Filter Records 🛠 Tools ▾

	Species Name	Date	Grid Reference	Site Name	Abundance	Record Type	Notes	Recorder	Date Entered	Status
<input type="checkbox"/>	<i>Collema furfuraceum</i>	September 2007	SH216260	Mynydd Penarfynydd			small colony in left on rock face	Steve Chambers	19/09/2007 00:00:00	🟢
<input type="checkbox"/>	<i>Collema nigrescens</i>	September 2007	SH216260	Mynydd Penarfynydd			in small quantity over Frullania and Hedera stems on rock face. Voucher in hb. SPC	Steve Chambers	19/09/2007 00:00:00	🟢
<input type="checkbox"/>	<i>Vahlia leucophaea</i>	September 2007	SH216260	Mynydd Penarfynydd				Steve Chambers	19/09/2007 00:00:00	🟢
<input type="checkbox"/>	Coralloid Rosette-Lichen (<i>Heterodermia japonica</i>)	September 2007	SH216260	Mynydd Penarfynydd			seen on ca. 4 gabbro boulders	Steve Chambers	19/09/2007 00:00:00	🟢
<input type="checkbox"/>	<i>Immersaria athrocarpa</i>	September 2007	SH216260	Mynydd Penarfynydd				Steve Chambers	19/09/2007 00:00:00	🟢
<input type="checkbox"/>	<i>Lecanographa dilleniana</i>	September 2007	SH216260	Mynydd Penarfynydd			in one rock underhang	Steve Chambers	19/09/2007 00:00:00	🟢
<input type="checkbox"/>	Garden Spider (<i>Araneus diadematus</i>)	04/09/2007	SH386447	Llanaelhaearn	1			Lynda Cox	18/09/2007 00:00:00	🟢
<input type="checkbox"/>	Weasel (<i>Mustela nivalis</i>)	09/09/2007	SH7779					Alan Morley	18/09/2007 00:00:00	🟢
<input type="checkbox"/>	Tawny Owl (<i>Strix aluco</i>)	03/09/2007	SH7779					Alan Morley	18/09/2007 00:00:00	🟢
<input type="checkbox"/>	Slow-worm (<i>Anguis fragilis</i>)	20/08/2007	SH61313					Gordon Rhodes	14/09/2007 00:00:00	🟡
<input type="checkbox"/>	West European Hedgehog (<i>Erinaceus europaeus</i>)	22/05/2007	SH61313					Gordon Rhodes	14/09/2007 00:00:00	🟢
<input type="checkbox"/>	Common Lizard (<i>Zootoca vivipara</i>)	20/05/2006	SH62112					Gordon Rhodes	14/09/2007 00:00:00	🟡
<input type="checkbox"/>	Common Lizard (<i>Zootoca vivipara</i>)	17/06/2005	SH70518					Gordon Rhodes	14/09/2007 00:00:00	🟡
<input type="checkbox"/>	Slow-worm (<i>Anguis fragilis</i>)	September 2007	SH83679					Mrs J. Slater	12/09/2007 00:00:00	🟢
<input type="checkbox"/>	Bullfinch (<i>Pyrrhula pyrrhula</i>)	2006	SH83679					Mrs J. Slater	12/09/2007 00:00:00	🟢
<input type="checkbox"/>	Slow-worm (<i>Anguis fragilis</i>)	2006	SH80570					Jack Mather	12/09/2007 00:00:00	🟢
<input type="checkbox"/>	West European Hedgehog (<i>Erinaceus europaeus</i>)	2007	SH80570					Jack Mather	12/09/2007 00:00:00	🟢
<input type="checkbox"/>	Common Lizard (<i>Zootoca vivipara</i>)	2007	SH78662					Rachel Jacobson	12/09/2007 00:00:00	🟢

Online Data Request



<p>Package A</p> <p>500m</p> <p>Bats & Roof-nesting Birds 500m</p> <p><i>Perfect for small projects (point searches only)</i></p> <p>£60 + VAT</p>	<p>Package B</p> <p>No Buffer</p> <p>Priority Species (No Buffer)</p> <p><i>Search for priority species without buffering your polygon(s)</i></p> <p>£140 + VAT</p>	<p>Package C</p> <p>1km</p> <p>Priority Species 1km</p> <p><i>Search for priority species within 1km of your location(s)</i></p> <p>£140 + VAT</p>	<p>Package D</p> <p>2km</p> <p>Priority Species 2km</p> <p><i>Search for priority species within 2km of your location(s)</i></p> <p>£200 + VAT</p>
<p>Package E</p> <p>5km</p> <p>Priority Species 5km</p> <p><i>Search for priority species within 5km of your location(s)</i></p> <p>£300 + VAT</p>	<p>Package F</p> <p>10 5</p> <p>Priority Species 5km, Bats 10km</p> <p><i>As the 5km search, plus a search for high-flying bats within 10km</i></p> <p>£450 + VAT</p>	<p>Package G</p> <p>10 2</p> <p>Priority Species 2km, Sites 10km</p> <p><i>Fulfil the NRW protected species licence criteria with this package</i></p> <p>£250 + VAT</p>	<p>Custom Search</p> <p>?km</p> <p>Custom Search</p> <p><i>Specify your own species and search radius</i></p> <p><i>Custom data requests will take up to three days to process and may cost more than a standard package</i></p> <p>POA</p>

All standard packages include Invasive Non-Native Species[†], Phase 1 Habitat survey data, and protected and non-statutory sites where they intersect with the search area. † Not Packages A or F

Please visit [NRW's website](#) for more information on European Protected Species licensing.

Selected Package: C: Priority Species 1km

Search Location	Area (inc. buffer)	Unit Cost	Cost per sq. km	Discount	Cost
Location 1 (vxcvxcv)	3.14 sq. km	£140.00	£44.56	-	£140.00
				Subtotal	£140.00
				20% VAT	£28.00
				Total	£168.00

Back

Save Quote and Exit

Next

Data Request details stored - Run in seconds

The screenshot displays a web application interface for data requests. A central dialog box titled "Search Database" is active, showing search parameters and options. The search location is "vxvxcv" with grid reference "SH645681". The "Options" section includes checkboxes for various search filters, and the "Output Types" section has "eMapper Link" selected. A progress indicator shows "Searching Database... 0:04". Above the dialog, a notification window states "cas.cofnod.org.uk says: Search Completed in 5s" with an "OK" button. The background interface shows a search results page with a "Status: Quote Accepted" message, a "Search Package" dropdown set to "C: Priority Species 1km", and a "Run Search" button. The price for the search is listed as "£140.00".

There's lots more!

Configuration

- General
 - General Settings
 - Drop Down List Contents
 - Contact Questions
 - Merge Contacts
 - Merge Organisations
 - Geographic Areas
 - Change Passwords
 - Message Templates
 - Terms & Conditions
 - Clear Editing Locks
- Restrictions
 - Species Restrictions
 - Area Restrictions
- Species Records
 - Record Types**
 - Sample Types
 - Abundance Qualifiers
- Verification Levels
- Rule Sets
- Classification
 - Designation Categories
 - Local Lists
 - Species Sets
- Charging
 - Search Packages
 - Generate Invoice Number
 - Change VAT Rate

Record Types

Manage Record Types and the species groups they apply to

+ Add Record Type

Active	
Amplexus	
Anal jelly	
Artificial holt	
Artificial substrate	
Auditory record	
Badger Sett	

Sample Types

Manage Sample Types and the species groups they apply to

+ Add Sample Type

Trapped (other)	
Trapped at actinic light	
Trapped at electrocuting grid	
Trapped at light	
Trapped at mercury vapour light	

Abundance Qualifiers

Manage Abundance Qualifiers and the species groups they apply to

+ Add Abundance Qualifier

Adult	
Signs	
Tracks	
Sub-adult	
Juvenile	
Full-Grown	

Configuration

General

- General Settings
- Drop Down List Contents
- Contact Questions
- Merge Contacts
- Merge Organisations
- Geographic Areas
- Change Passwords
- Message Templates
- Terms & Conditions
- Clear Editing Locks

Restrictions

Species Restrictions

Area Restrictions

Species Records

- Record Types
- Sample Types
- Abundance Qualifiers
- Verification Levels

Rule Sets

Classification

Designation Categories

Local Lists

Species Sets

Species Sets

Create sets of species to be used in custom search groups

+ Add Species Set

Annex II Bats	
Badger	
Bats	
Great Crested Newt	
Invasive Non-native Plant Species	

Rule Sets

Update and configure rules for checking the validity of species records on import and data entry. N.B. Records which fail rule checks on import will only be set to needs checking where the Dataset Category does not 'Indicate Expert', or where the species group is not listed in the Dataset's Expert Species Groups, however details of the rule failure will still be stored with the record.

Update Outdated Rules

Aquatic Heteroptera Recording Scheme	Last Updated 07/11/2014
Auchenorrhyncha Recording Scheme for Britain and Ireland	Last Updated 12/07/2013
Bees, Wasps and Ants Recording Society	Last Updated 17/07/2013
Botanical Society of the British Isles	Last Updated 09/04/2013
British Bryological Society	Last Updated 08/05/2012
British Lichen Society	Last Updated 07/11/2014

Designation Categories

Drag designations into different boxes to divide species into different categories. You can add, rename and delete categories to create your own. Species will be categorised as 'All Other Species' where they do not have any designations, or where they only have designations listed under 'Unassigned Designations'. Where a species has two or more designations covered by multiple categories, the category with the highest priority (1 being the highest) is considered to be the category of that species.

Unassigned Designations

BDir1 BDir2.1 HDir INNS RD1(Wales) RD2(UK) WBR WCA1.1 WCA9 WVP

1: Category 1

BAP BDir2.2 Bern Bonn CITES
EPS RD1(UK) S41 S42

2: Category 2

PBA S7 UKBA UKBR WBA
WCA1.2 WCAS

3: Category 3

WCAS

+ Add New Category

Editing Restriction Set

Restriction Set Name	Standard Restrictions		
Include Child Species	<input checked="" type="checkbox"/>		
Species List	+ Add Restriction		
<i>Circus cyaneus</i>	Hen Harrier	Trusted 1m	Public 10km
<i>Passer domesticus</i>	House Sparrow	Trusted 1m	Public 10km
<i>Psittacus erithacus</i>	African Grey Parrot	Trusted 100m	Public 1km

Configuration ▾

General

- General Settings
- Drop Down List Contents**
- Contact Questions
- Merge Contacts
- Merge Organisations
- Geographic Areas**
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- Clear Editing Locks

Restrictions

- Species Restrictions
- Area Restrictions

Species Records

- Record Types
- Sample Types
- Abundance Qualifiers
- Verification Levels
- Rule Sets

Classification

- Designation Categories
- Local Lists
- Species Sets

Charging

- Search Packages**
- Generate Invoice Number
- Change VAT Rate

Geographic Areas

Add or edit geographic areas used in data searches and for species record validation

+ Add Areas to a New Group **Q = Reporting Enabled**

	LERC Boundaries	
	Vice-Counties	
	Wildlife Sites	

Enquiry Types [Close]

+ New Entry **↓↑ Reorder List Alphabetically**

	Chargeable	
	Academic	
	Data Supplier	
	Partnership	
	Planning	
	Public	

Background list items: Datasets / Dataset Categories, Datasets / Dataset Statuses, Datasets / Dataset Subjects, Datasets / Filing Locations, Datasets / Update Methods, Enquiries / Enquiry Types


Search Packages

Create and edit search packages available to enquirers, and configure their search parameters and availability

+ Add Search Package

	A: 1km Protected Species	
	B: 2km Protected Species	

INVOICE	2262
Tax Date	12/05/2017
Order Number	CH/120517/PH1



Gwasanaeth Gwybodaeth Amgylcheddol Gogledd Cymru
North Wales Environmental Information Service

Cofnod, Intec, Ffordd y Parc, Parc Menai,
Bangor, Gwynedd, LL57 4FG
Phôn/Tel: 01248 672603
E-bost/Email: accounts@cofnod.org.uk
 Registered in England & Wales No. 5586906
VAT Reg No: 880 1028 47

Caroline Hillier Applied Ecological Services Ltd. Ramshaw House Ramshaw County Durham DL14 0NG

Description	Unit Price	Net Amount	VAT %	VAT
Biodiversity Information Search - Our Ref: E05604 Your Ref: Phase1 searches				
Location 1 - Site Name: 7 Trem Elidir	200.00	200.00	20%	40.00
Location 2 - Site Name: Tywyn Health Centre	190.00	190.00	20%	38.00

Payment Details	Total Net Amount	390.00
By Cheque: Please make cheques payable to Cofnod By BACS Payment: Cofnod, Co-operative Bank Sort Code: 08-92-99, Account Number: 65185782, Reference: 2262 Please email accounts@cofnod.org.uk quoting the invoice number 2262 once payment has been made. Full payment is required within 28 days	Total VAT Amount	78.00
	Invoice Total	468.00

Timesheet Holiday

May 2017

-994h 00m from last month

Days	Start	Finish	Start	Finish	Sick Hours	Holiday Hours	Other Hours	Project Hours	Total Hours	Flexi-time Balance
	AM			PM						
01/05/2017	Office Closed: Early May Bank Holiday									
02/05/2017									0h 00m	-1001h 00m
03/05/2017									0h 00m	-1008h 00m
04/05/2017									0h 00m	-1015h 00m
05/05/2017									0h 00m	-1022h 00m
06/05/2017										
07/05/2017										
08/05/2017									0h 00m	-1029h 00m
09/05/2017									0h 00m	-1036h 00m
10/05/2017									0h 00m	-1043h 00m
11/05/2017									0h 00m	-1050h 00m
12/05/2017									0h 00m	-1057h 00m
13/05/2017										
14/05/2017										
15/05/2017									0h 00m	-1064h 00m
16/05/2017									0h 00m	-1071h 00m
17/05/2017									0h 00m	-1078h 00m
18/05/2017									0h 00m	-1085h 00m
19/05/2017									0h 00m	-1092h 00m
20/05/2017										
21/05/2017										
22/05/2017									0h 00m	-1099h 00m
23/05/2017									0h 00m	-1106h 00m
24/05/2017									0h 00m	-1113h 00m
25/05/2017									0h 00m	-1120h 00m
26/05/2017									0h 00m	-1127h 00m
27/05/2017										
28/05/2017										
29/05/2017	Office Closed: Spring Bank Holiday									
30/05/2017									0h 00m	-1134h 00m
31/05/2017									0h 00m	-1141h 00m
									Flexi-time carried forward to next month:	0h 00m
									Flexi-time deducted from next month:	1141h 00m

Total Sick Hours	0h 00m
Total Holiday Hours	0h 00m
Total Project Hours (Manage Projects)	0h 00m
Project Hours this month	0h 00m

List Email Addresses

Use the toggles to choose the type of email addresses you would prefer to see for the contacts you are currently viewing, then copy and paste into your email software.

Yes Prefer Login Addresses
 No Prefer Work Addresses

jennifer.batten@cofnod.org.uk; joe.bloggs@cofnod.org.uk;
richard.gallon@cofnod.org.uk; baby.may@timandais.org.uk; tim.may@cofnod.org.uk;
catharine.moss@cofnod.org.uk; roy.tapping@cofnod.org.uk; test.user@cofnod.org.uk;
crawling.patrick@jenandfranck.org.uk



The Business Model

- Sharing technologies and processes (not reinventing the wheel)
*To promote and develop good standards of practice in the collation, management, dissemination and analysis of biological and geological records and to encourage and facilitate networking between Centres to **enable exchange of ideas, collaborative working, developing joint tools and sharing good practice.***
(ALERC)
- LERC dedicated tools for LERC users
- LERC led community of users
- System used by Cofnod to run its business
- Income will help support the business model

How will it work?

- Hosted data on a high specification dedicated server
- Accessed through 100mb lease line
- High spec firewall and SSL Certified website

- LERC specific login and configuration
- Technical support within office hours
- System developer support in place by the Summer 2017

- Developments will be shared
 - bug fixes, upgrades, free new features by us
 - new features paid for by participating LERCs

How much will it cost?

- Current funding from LRERC helping system development
- One off data transfer and set up fee (£1-1.5k)
- Some of your time to configure the system
- Annual licence fee (£2.5k +)- allowing access, support and maintenance of system
- New features or major customisation paid for separately

How can it be paid for?

- Efficiencies
- Better customer service, allowing you to charge more

Summary

- It can provide an alternative to R6
- A system designed and supported by a LERC for LERCs
- A holistic solution which helps to manage and provide data
- Giving you more time to do the important stuff