



# Ecobat Step by Step Guide

## Part 1 – Preparing the Data

### 1. Create an account.

Go to 'create new account' on the left hand side of the screen and following the steps to create your account and set your password.

The screenshot shows the Ecobat website interface. At the top, there is a navigation menu with links: Home, About Ecobat, Data Input, Analysis, Data sharing, and Contact Us. Below the menu is the 'User login' section, which includes fields for 'Username \*' and 'Password \*', a 'Log in' button, and a 'Create new account' link highlighted with a red box. To the right of the login form, there is a heading 'Ecobat is a tool for interpreting bat activity data' followed by a list of bullet points: '- Contribute your data to the Ecobat repository to improve the robustness of analyses', '- Range of privacy options available to accommodate sensitive data', '- Compare your bat activity with a large comparable reference range dataset', and '- Generate a numerical indicator of the relative importance of a night's worth of activity'. A small image of a bat in flight is also visible on the right side of the page.

### 2. Create your spreadsheet - essential data. Create your own or use our downloadable pro-forma spreadsheet.

Create a spreadsheet containing the essential data required by Ecobat, or input your data into the downloadable pro-forma spreadsheet.

	A	B	C	D	E	F	G	H	I
	Location	Spatial Reference System	Sensitivity	Date	Species	Passes per night	Definition of pass	Detector Make	Detector Model
1									
2	SX918938	British National Grid	Public	06/05/2015	Pipistrellus pipistrellus	56	Pass 1s gap	Wildlife Acoustics	SM2
3	SX918938	British National Grid	Public	09/05/2015	Pipistrellus pipistrellus	34	Pass 1s gap	Wildlife Acoustics	SM2
4	SX918938	British National Grid	Public	09/05/2015	Pipistrellus pygmaeus	21	Pass 1s gap	Wildlife Acoustics	SM2
5	SX918938	British National Grid	Public	09/05/2015	Nyctalus noctula	17	Pass 1s gap	Wildlife Acoustics	SM2
6	SX918938	British National Grid	Public	10/05/2015	Pipistrellus pipistrellus	47	Pass 1s gap	Wildlife Acoustics	SM2
7	SX918938	British National Grid	Public	10/05/2015	Pipistrellus pygmaeus	32	Pass 1s gap	Wildlife Acoustics	SM2
8	SX918938	British National Grid	Public	11/05/2015	Pipistrellus pipistrellus	73	Pass 1s gap	Wildlife Acoustics	SM2
9	SX918938	British National Grid	Public	11/05/2015	Pipistrellus pygmaeus	45	Pass 1s gap	Wildlife Acoustics	SM2
10	SX918938	British National Grid	Public	13/05/2015	Myotis	86	Pass 1s gap	Wildlife Acoustics	SM2
11	SX918938	British National Grid	Public	18/05/2015	Pipistrellus pipistrellus	33	Pass 1s gap	Wildlife Acoustics	SM2
12	SX918938	British National Grid	Public	18/05/2015	Myotis	15	Pass 1s gap	Wildlife Acoustics	SM2
13	SX918938	British National Grid	Public	20/05/2015	Pipistrellus pipistrellus	98	Pass 1s gap	Wildlife Acoustics	SM2
14	SX918938	British National Grid	Public	21/05/2015	Pipistrellus pipistrellus	64	Pass 1s gap	Wildlife Acoustics	SM2
15	SX918938	British National Grid	Public	21/05/2015	Pipistrellus pygmaeus	36	Pass 1s gap	Wildlife Acoustics	SM2
16	SX918938	British National Grid	Public	21/05/2015	Nyctalus noctula	58	Pass 1s gap	Wildlife Acoustics	SM2
17	SX918938	British National Grid	Public	21/05/2015	Myotis	77	Pass 1s gap	Wildlife Acoustics	SM2



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### 3. Create your spreadsheet - supplementary data.

Add your supplementary data to your spreadsheet.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Location	Species Reference System	Sensitivity	Date	Species	Height per night	Collection of Pass	Detector Make	Detector Model	Detector Height	Within 25m of known roost	Activity elevated	Detector nearest linear feature	Detector closest anthropogenic feature	Detector next to linear feature	Detector closest anthropogenic feature	Sunset Temperature (°C)	Rainfall	Sunset Wind speed (mph)	Roost type	Roost depth (m)					
1	30529998	British National Grid Public	06/05/2015	Pipistrellus pipistrellus	56	Pass 16 gap Wildlife Acoustic SM2	None	None	2	No	No	Treeline	None	Building	None	12	Dry	3	None	0					
2	30529998	British National Grid Public	06/05/2015	Pipistrellus pipistrellus	36	Pass 16 gap Wildlife Acoustic SM2	None	None	1.5	No	No	Hedgerow	None	Minor road	None	11	Dry	4	None	0					
3	30529998	British National Grid Public	06/05/2015	Pipistrellus pipistrellus	21	Pass 16 gap Wildlife Acoustic SM2	None	None	1.5	No	No	Hedgerow	None	Minor road	None	11	Dry	4	None	0					
4	30529998	British National Grid Public	06/05/2015	Pipistrellus pipistrellus	21	Pass 16 gap Wildlife Acoustic SM2	None	None	1.5	No	No	Hedgerow	None	Minor road	None	11	Dry	4	None	0					
5	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
6	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
7	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
8	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
9	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
10	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
11	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
12	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
13	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
14	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
15	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
16	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
17	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
18	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
19	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
20	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
21	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
22	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
23	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
24	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
25	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
26	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
27	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
28	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
29	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					
30	30529998	British National Grid Public	06/05/2015	Nyctalus noctula	37	Pass 16 gap Wildlife Acoustic SM2	None	None	1.8	No	No	Ditch	None	Streetlight	None	12	Dry	5	None	0					

### 4. Save as a CSV.

Save your spreadsheet as a CSV file by going into File → Save As and select 'CSV (comma delimited)' in the dropdown menu 'Save as type'.

File name:

Save as type:

Authors:

Tags: [Add a tag](#)

Tools

You're ready to upload your data!

## Part 2 – Uploading the Data

### 5. Upload your CSV. Navigate to the upload page of the Ecobat website.

Navigate to the upload page of the website.

Select 'choose file' and select your CSV file from the appropriate folder. Click upload.

### Upload static bat detector records

Select \*.csv (comma separated values) file to upload:  Ecobat Data.csv

## 6. Specify key settings.

Select:

- spatial reference system e.g. British National Grid, OSGB, Lat/Long
- bat pass definition
- sensitivity level

### Upload static bat detector records

Before proceeding with the import, please specify the following settings that will apply to every record in the import file. Any settings that you do not specify here can be supplied in the import file on a row by row basis by mapping the setting to the appropriate column in the next step.

Import Settings

Spatial ref. system: British National Grid

Select the spatial reference system used in this import file. Note, if you have a file with a mix of spatial reference systems then you need a column in the import file which is mapped to the Sample Spatial Reference System field containing the spatial reference system code.

Pass definition: Pass 1s gap

Select the definition used as a criteria for the number of passes.

Choose the sensitivity settings for the records.: Blur records to 10km grid square

Next

Data set as 'public' or 'blurred to 10km' will be shared with the National Biodiversity Network at the appropriate spatial scale. Data set as 'private' will never be made publicly available.

## 7. Map attributes.

Match the columns in your csv file with the fields we use to populate the Ecobat database. Ensure you match location information to 'Location map reference' in the dropdown menu.

### Upload static bat detector records

Please map each column in the CSV file you are uploading to the associated attribute in the database. We've tried to match your columns to the available attributes where possible so check any automatically selected attributes in the Maps to attribute column before proceeding. If you plan to repeat imports from similar spreadsheets in future you can use the tickboxes to remember your choices.

Column in CSV File	Maps to attribute	Remember choice?
Location	<span style="border: 1px solid #ccc; padding: 2px;">Location map reference</span>	<input checked="" type="checkbox"/>
Please check the suggested mapping above is correct.		
Location (if required)	<span style="border: 1px solid #ccc; padding: 2px;">&lt;Not imported&gt;</span>	<input type="checkbox"/>
Sensitivity	<span style="border: 1px solid #ccc; padding: 2px;">&lt;Not imported&gt;</span>	<input type="checkbox"/>
Date	<span style="border: 1px solid #ccc; padding: 2px;">Date start</span>	<input checked="" type="checkbox"/>
Please check the suggested mapping above is correct.		
Species	<span style="border: 1px solid #ccc; padding: 2px;">Taxa taxon list (from controlled termlist)</span>	<input checked="" type="checkbox"/>
Please check the suggested mapping above is correct.		

Where you previously defined a field, i.e. spatial reference system, pass definition, sensitivity, on the previous page, this should be left as 'not imported'. If you have multiple spatial reference systems, this should be matched to the column in your csv file. Columns for which you don't have data, i.e. supplementary data, should also be left as 'not imported'.

## 8a. Upload successful!

If your upload was successful, your data is now deposited securely within Ecobat.

You can either import another file or continue onwards to undertake analysis on your dataset.

### Upload static bat detector records

The upload was successful.

Would you like to import another file?



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8b. Upload unsuccessful. Advice on how to fix common errors can be found on our Troubleshooting page.

If your upload was unsuccessful, download the CSV file which holds the rows of data that did not upload. Find the column 'Problem' which will listed the associated error for each row, and correct. Upload the corrected data only, following step 5 onwards.

### Upload static bat detector records

The page uses an Indicia Data Warehouse supported by the Biological Records Centre

377 problems were detected during the import. As part of your upload was unsuccessful, download the generated CSV file which holds the rows of data that did not upload. Find the column called "Problem" which lists the associated error for each row. Correct the error, and then re-upload the CSV file containing **only** the rows of data which did not upload correctly. Please do not re-upload the whole dataset again. Download the records that did not import.

Would you like to import another file?

Where do you want to go next? Upload some more data or run analyses...

### Part 3 – Analysing the Data

10. Navigate to the Data Analysis page.

If you wish to analyse your dataset, navigate to the Data Analysis page and select the dataset you wish to analyse.

### Previous imports

Date time	Imported by	# Records	
2016-08-23 Time	Username	34	analyse
2016-08-24 Time	Username	16	analyse
2016-09-01 Time	Username	16	analyse
2016-09-02 Time	Username	16	analyse

first prev 1 next last Showing records 1 to 4 of 4

11. Select filters, then click 'Analyse'.

Select the filters that you wish to stratify by. As the Ecobat database increases, this page will expand to offer additional options.

Compare your data to records made at a similar time of year, or from all times of year.

Compare your data to records made within 100km or 200km, or to data from the entire UK.

Compare your data to records which used the same detector make, or compare to all records.

### Analyse an import

Date filter:

Similar date (+/- 30 days)  
Limit the records returned to a similar time of year. If the import being analysed includes data from multiple nights then the reference range will be filtered to records from 30 days before the first date to 30 days after the last date in the import.

Geographic filter:

No geographic filter  
 Similar geographic region (within 100km)  
 Similar geographic region (within 200km)  
Limit the records returned by geographic distance. If the import being analysed covers more than one map reference then the averaged centre of the import will be used to feed into the analysis.

Detector filter:

Make:   
Limit the records returned to the detector make you choose here.

[Analyse](#)