# Guide to the online transect input system for butterfly monitoring – eBMS

This online system is to support the recording of butterfly transects. It can be used anywhere in the world, although is currently tailored to use



within Europe (e.g. uses a European list of species). We recommend that you use national systems where a formal monitoring scheme is in place. For schemes in Europe, refer to the list <u>here</u>.

You can watch explanatory videos on the <u>BCE YouTube Channel</u> of the steps explained in this guide for better compression.

## Quick Guide:

These are the simple steps to get you started with entering data on the new online system.

1. <u>Register</u> for an account.

- 2. Go to '<u>My Sites</u>' to set up new transect routes, or review the details of existing ones.
- 3. Go to '<u>My Walks</u>' to enter the data for your transect routes.
- 4. Go to 'My samples' to review everything submitted by you on the system and edit any record.
- 5. You can download everything on 'My downloads'
- 6. Go to '<u>Annual Report</u>' to review your annual butterfly data, and to see what's been entered for other transects you shared.

Step-by-step instructions for the key parts of the system are detailed below. Key links to click are given in red text. Key areas of relevant web pages are highlighted through a red circle, e.g.

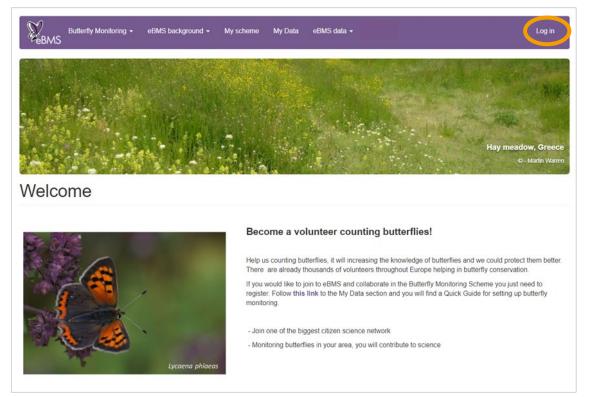
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#### Setting up a new account

The account registration approach uses email verification to minimise risks for spam accounts.

Go to http://www.butterfly-monitoring.net/mydata and click on 'Log in' (top right of home page).



1. Enter a username, your email address and your proper name. Tick the Time Zone and the Country/scheme you are part of. Review the Terms of use for the site, and tick to agree to them. Enter the image code in the human verification. Then click on 'Create new account'.

Butterfly Monitoring + eBMS background + My scheme + My Data + eBMS data +	Log in
Create new account	
Log in Create new account Reset your password	
Email address	
Username	
First name	
Last name	
Locale settings	
Time zone	
Paris	~
Picture	
Choose File No file chosen	
Your virtual face or picture. O Upload requirements	

- 2. You will now receive an email indicating that your account has been registered.
- 3. This email will includes the following text:

Thank you for registering at European Butterfly Monitoring. You may now log in by clicking this link or copying and pasting it to your browser:

http://www.butterfly-monitoring.net/mydata/user/reset/17/1468321218/30vicemLt67H11-Hxp5uw1zR-ltwOrEd20U0X7ETwc

This link can only be used once to log in and will lead you to a page where you can set your password.

After setting your password, you will be able to log in at <u>http://www.butterfly-monitoring.net/mydata/user</u> in the future using:

username: Your username password: Your password

- 4. Click on the link provided in the email to confirm your registration, via validation of your email address.
- 5. Click on the 'Log in' button on the confirmation web page.
- 6. Enter your password for the site on the next page, making sure you enter it twice as required. Select your preferred language and time zone. Then click on 'Save'.

Your account is now ready to use

7. You can change your account details at any time by clicking on 'My Account' in the top right corner of any web page on the site, then selecting the 'Edit' tab.

#### Linking an existing transect route to your account

- 1. If you record butterflies on an existing transect that you know to be in the system, it is important that you do not recreate the transect route. Please contact your coordinator or the site administrators via <a href="mailto:ebms@ceh.ac.uk">ebms@ceh.ac.uk</a> to request access to enter data for this route.
- 2. Click on 'My Sites' to see a list of transect routes associated with your account.

### Setting up a new transect site

If you are setting up a new transect, you will need to enter details of the site and draw the transect route, so please have these details to hand before you start.

1. To create a new site, in the main menu go to My Data and click on <u>'My transect sites'</u> and then click on <u>'Add Site'</u>.

		English 🗸
Butterfly Monitoring - eBMS background - My	scheme - My Data - eBMS data -	My account +
My sites	My transect sites My transect walks	
	My 15-minute counts My transect reports	
This page lists transect sites you have setup, or can enter data for. Also transect site and add more information	you can see the details of the	AL 200
To setup a new transect site select the 'Add Site' button below. Use the links to download your transect routes in a variety of formats, or	a summary of your sites.	
*** Please, before registering a new transect contact the coordinator of y tips about the design of your transect. For doubts you can write to the er		
Site Name No. of Records	No. of Species	
Add Site		
Full Sites data download (CSV) Full Site Sections data download (CSV)		
KML format GIS Section Download GPX format GIS Section Download SHP format GIS Section Download		

- 2. Select the Country in which you are setting up a transect. The list of countries excludes those for which an established Butterfly Monitoring Scheme exists, other than Luxembourg which use this system as its main transect input system. For other countries with an established monitoring scheme in Europe, refer to the list <u>here</u>.
- 3. Enter the Name of your transect
- 4. Tick in the Grid Ref.: field. You will need to locate the approximate centre point of your site on the map provided. To find your site on the map user the search facility or move around or zoom into the map using the tools provided. When you click on the map, the lat/lon for your transect centre will be automatically filled in.
- 5. A Site Code will automatically be assigned to your transect. You can change this value if required.
- 6. Enter the number of sections for your transect (between 1 and 16).
- 7. Enter the Width of your transect. Normally is 5 metres (2.5m in each side), if not there is the option 6 and 10 metres.
- 8. Enter as many other general site details are possible (these are not mandatory).
- 9. Once your transect route is created you can download it in a variety of GIS formats.

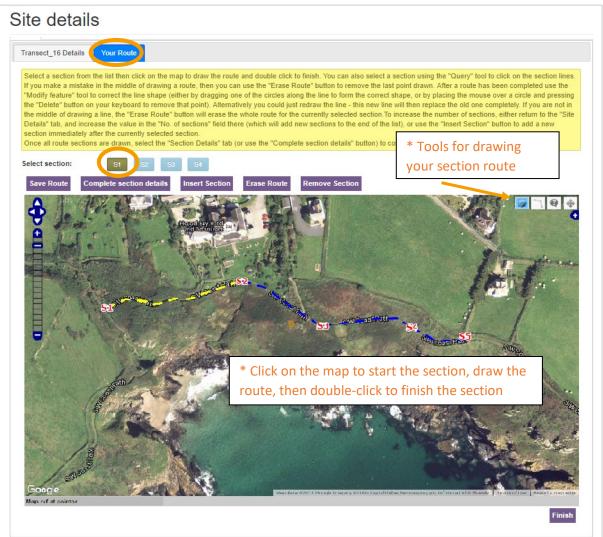
Butterfly Monitoring + eBMS	eBMS background +	My scheme 🚽	My Data 👻	eBMS data ◄	My account
Site details					
Site Details					
Country					y town or village, then drag the map to
Country:				Alternatively if you know the grid re	e centre grid reference of the transect. eference you can enter it in the Grid Ref
<please select=""></please>				bow and lone	
	be filled in automatically when y	ou draw the site on the n	nap.	Search for Place:	
Site Details					
Transect Name:					
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Grid Ref.:				¥	Cesko Cesko
			••	Paris	Slovensko
4326 Click on the map to set the central grid referen	ice.		•	Golio Franc	e Magyarország Zagreb Román
Internal ABLE site				Gole de Goscogne	Htvätska Србија Виси Italia
code:				Barcelo	
EBMS:Portugal:[INDEX]				Barcelo España Portugal Rabat Oojit Alg	
Details				Rabat Alg	Per C C C C C C C C C C C C C C C C C C C
No. of sections:					طرابلس أيونس -
				Maroc NEYOte	© OpenStreetMap contributors
				BACKER	
Overall Length (m):				AT 50	1.1

10. At the bottom, click on 'Save'

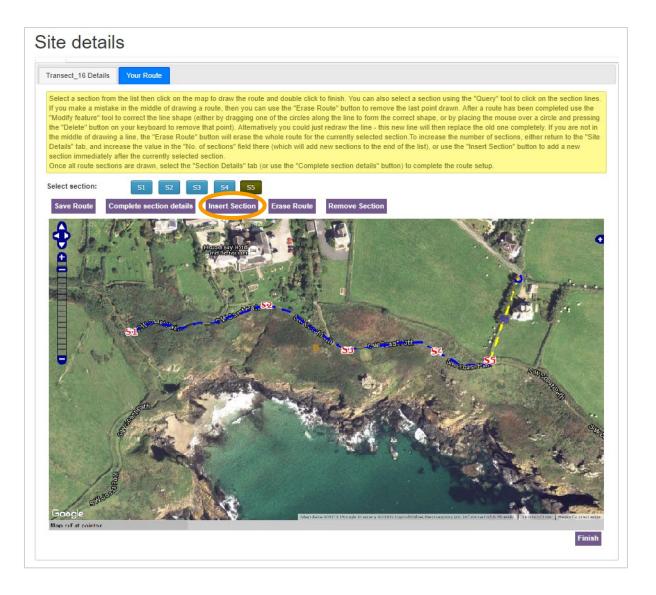
11. Now you will need to draw the route of each section of your transect, as described below.

#### Drawing the transect route section-by-section

- 1. After you have saved your new site details, you should now be looking at the 'Your Route' tab as shown below.
- 2. Make sure that the first section is highlighted ('S1') in order to draw and edit the route for that section.
- 3. Move the map around and zoom in or out so that you can see the area where you need to draw.



- 4. You need to use the line-drawing tool, which will show a small circle on the point of your cursor.
- 5. Click on the map at the start of your section, then draw the route by clicking on each corner or turning point until you get to the end of the section. **Double-click at the end of the section to finish** drawing the line.
- 6. When finished, the complete section should be shown as a yellow dashed line. Now click on "Save route" to save the section drawn and click the next section.
- 7. Continue until all the sections have been drawn. You can include new sections with the button "Insert section"

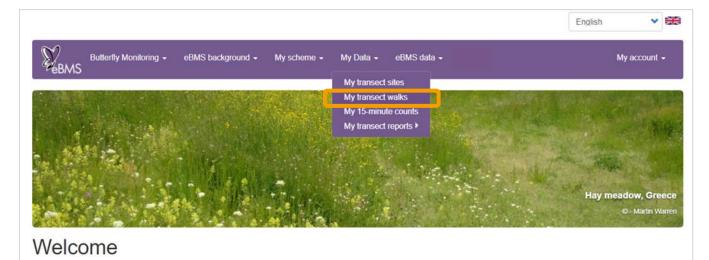


- 8. Drawing the route can be a challenge. So, if you are not happy with the result, there are several ways to make amendments. Firstly, make sure the relevant section is highlight by selecting the route section (e.g. S5).
- 9. The simplest option is to just redraw a new line over the top. When you double-click to finish, you will get a warning to confirm that it is ok to replace the existing section.
- 10. If you want to get the current line out of the way, you can click on the 'Erase Route', which should then remove the line for that section. If you have made a mistake mid-section, this button will also remove the latest node on the line.
- 11. If you just need to move one or two corner points, then you can use the Modify tool. Small blue circles will appear at each node on the line, and these can be dragged around into new positions. You can also add new nodes by dragging the mid-section of a line.
- 12. Once the sections are drawn, please click on the 'Complete section details' button. Then click on the 'Section Details' tab and enter as many details as you can about each section, saving as you go along.

Site Details	
anguage English	
Site Details Your Route	Section Details
	SI S2 S3 S4 S5 0.964N, 5.197W
Section	
Details Section Length (m):	108
Habitat and management	
Primary Habitat Present:	Agricultural 🔻
2nd Habitat Present:	Forest
Primary Land Management Present:	Mowing (or other vegetation clearance, e.g. herbicide spraying, burning etc.)
2nd Land Management Present:	Grazing
Notes on Land use and management:	Pasture next to forest
	$\frown$
	Save

# Entering the results of a transect walk

1. In the main menu go to "My Data" and click on <u>"My transect Walks"</u> to see a calendar, showing all the walks that you have entered so far.



2. "My Walks" page will appear and you'll see the calendar that shows all the counts you've entered so far.

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	Butterfly Moni	toring - eBMS	S background 👻	My scheme 👻 My C	Data 🚽 eBMS data	•		My account 👻
My W	Valks							
details of you different year	ur transect visit. D r.	ates for the current		transect counts. Click o t by default - use the arr				
For registerin	ng your transect v	isit:				A Trusty and	We Par	
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- 3. If you walk several different sites, you can use the drop-down list to only show walks from one site.
- 4. Locate the date of your walk, click on the green 'plus' sign to create the new walk, and you will be presented with the 'Walk Data Entry' screen.
- 5. Make sure the right transect site is selected. Check the recorder name and edit if needed. Enter the start and finish times, temperature and wind information.
- 6. If you enter a value for the % sun on this screen, it will fill in this value for all sections. Alternatively, individual %sun values for each section can be entered on the next screen.
- 7. Remember to write in the Notes tab any change happened in the transect.

Walk Data Entry
In the species grid visible after the visit details are entered, the field "Reliability" allows you to record the count reliability at each section level. The meaning of each code is as follows 1. Suitable conditions, the count reflects the butterfly abundance. 2. Unsuitable conditions (for instance too much wind, running cows around the observer). The count does not reflect the butterfly abundance although some butterflies have been observed. 3. The section could not be surveyed, for instance due to accessibility. Select Transect:
please select
Date: 18/06/2019 Recorder Name:
García Sanchez , Cristina
Start Time (hh:mm): -: * Use 24hr clock
End Time (hh:mm):
% Sun:
Temp (Deg C):
Wind Direction:
Wind Speed:
Notes:
Use this space to input comments about this week's walk.
Next Cancel

8. Once all the basic walk information has been entered, click on 'Next'.

9. On the butterfly data entry screen, the default table shows the whole European species list in taxonomic order. You can choose alternative lists using the drop-down list. However, the first time entering a visit to the transect, it will appear the whole list by default. After selection a specific list, in the second time entering a visit, you will see only the species saw before in your transect.

You can edit the preference species list to show on your account profile.

Walk Data Entry																				
View Edit Delete Revisions Translate																				
the species grid visible after the visit details are entered, the field "Reliability" allows you to record the count reliability at each section level. The meaning of each code is as follow												as follov								
<ol> <li>Suitable conditions, the count n</li> <li>Unsuitable conditions (for instat observed.</li> <li>The section could not be survey</li> </ol>	nce too mu	ch wind, n	unning	cows an		he obser	rver	.). The c	ount	does no	t refle	ct the bu	tterfl	y abunda	ance	althoug	h som	e butter	flies h	ave been
test on Monday	test on Monday 3rd January 2022																			
Butterflies						drop							t							
Species Sort Order: All species	Species Sort Order:       All species Species known at this site            • Taxonomic Sor Species I have recorded																			
Sections	S1		62	\$3		\$ <b>4</b>		<b>S</b> 5		<b>S6</b>		\$7		<b>S</b> 8		S9	)	<b>S1</b>	D	Total
% Sun	100	100		100		100		100		100		90		90		80		80	]	
% Cloud	0	0		0	]	0		0	]	0	]	10		10		20	]	20	]	
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Iphiclides podalirius					]				]		]						]		]	0
Iphiclides feisthamelii					]				]		]						]		]	0
Papilio alexanor																			]	0
Papilio machaon					]				]		]						]			0
Papilio hospiton					]				]		]						]			0
Parnassius mnemosyne					]				]		]						]		]	0
Parnassius phoebus					]				]		]						]		]	0
Parnassius apollo					]				]		]						]			0
Archon apollinus																				0

10. If you are using a short list, but have seen a new species, you can add this species to your list by typing its name in the box below the data grid. This box will auto-complete when you start typing a name (as shown below). Select the relevant species when it appears and it will be added to the bottom of your list.

Butterflies						
Use species list : [ Species Sort Order: Taxonomic Sort Species name		known a	t this site	T		
Sections	S1	S2	<b>S</b> 3	\$4	Total	
% Sun	50	50	50	50		
Carcharodus tripolinus					0	
Pyrgus carthami					0	
Pyrgus andromedae					0	
Pyrgus cacaliae					0	
Pyrgus alveus					0	
Thymelicus lineola					0	
Thymelicus sylvestris					0	
Zerynthia polyxena					0	
Pieris rapae					0	
Pontia daplidice					0	
Callophrys rubi					0	
Celastrina argiolus					0	
Aricia morronensis					0	
Argynnis aglaja					* -	This box will auto-complete.
Aglais io						lect the relevant name
Total	0	4	2	1	1	leet the relevant nume
Add species to list					_	
Back to visit details	Fin	ish and	return to	walk list	i Aglai Aglai	s ichnusasio
					Aglai	s urticae

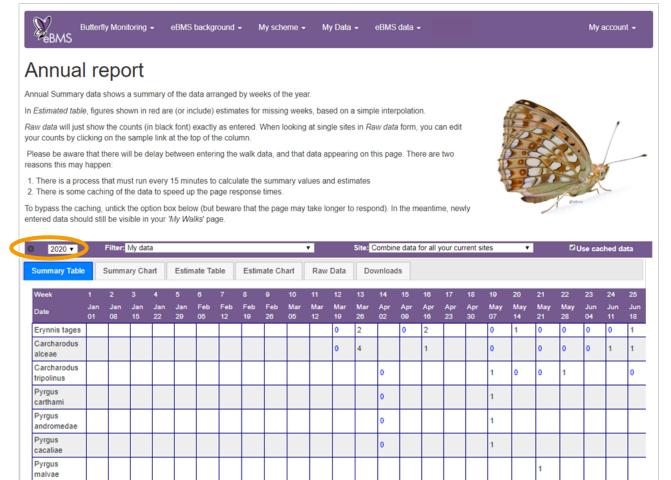
- 11. Check/enter the % sun (at the top of the data table) figures for each section.
- 12. Enter the butterfly counts for **each species/section**. The data are saved as you go.
- 13. Once you have entered all your data, click on 'Finish and return to walk list'

## Reviewing the data from your transects

Please note that data just entered into the system does not appear immediately within the annual summary. There are two reasons this may happen:

1) there is a process that must run every 15 minutes to calculate the summary values and estimates, and 2) there is some caching (storing of calculated summaries) of the data to speed up the page response times. To bypass the caching, untick the option box below (but beware that the page may take longer to respond). In the meantime, newly entered data should still be visible in your 'My Walks' page.

 In the main menu go to My Data -> Reporting and click on the <u>'Annual Report'</u> tab to show a summary of the transect data. Initially you will see all data for the current year from all sites that you have linked to your account. However, there are several options for looking at other summaries or other years.



- 2. You can change the year by clicking on the black arrows (top left)
- 3. You can choose to view everyone's data in the system, or just your own, by using the 'Filter by recorder'
- 4. You can choose to view all sites, or individual sites linked to your account, by using 'Filter by site'
- 5. You can use the tabs to view raw data or summary data or include simple estimates for missing weeks. You can also choose to display the information as a chart.

- 6. The best way to check through your own data is to select your site from the drop down list and view 'raw data'. In this mode, if you spot a mistake that needs to be corrected, you can go directly through to the Data Entry screen for an individual walk by clicking on the date at the top of the column.
- 7. You can download your data in a variety of formats via the Downloads tab.

