

# Updates eBMS tools

eBMS website and ButterflyCount app

eBMS Coordinators Meeting  
21 October 2021  
Online

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Officer eBMS Network development



# Monitoring biodiversity: methods



Mark-Release-  
Recapture (MRR)

*Experts*

Transects



eBMS

*Trained people*



15-min Counts



Opportunistic data

*Every person*

Effort  
Standardization



Real population numbers

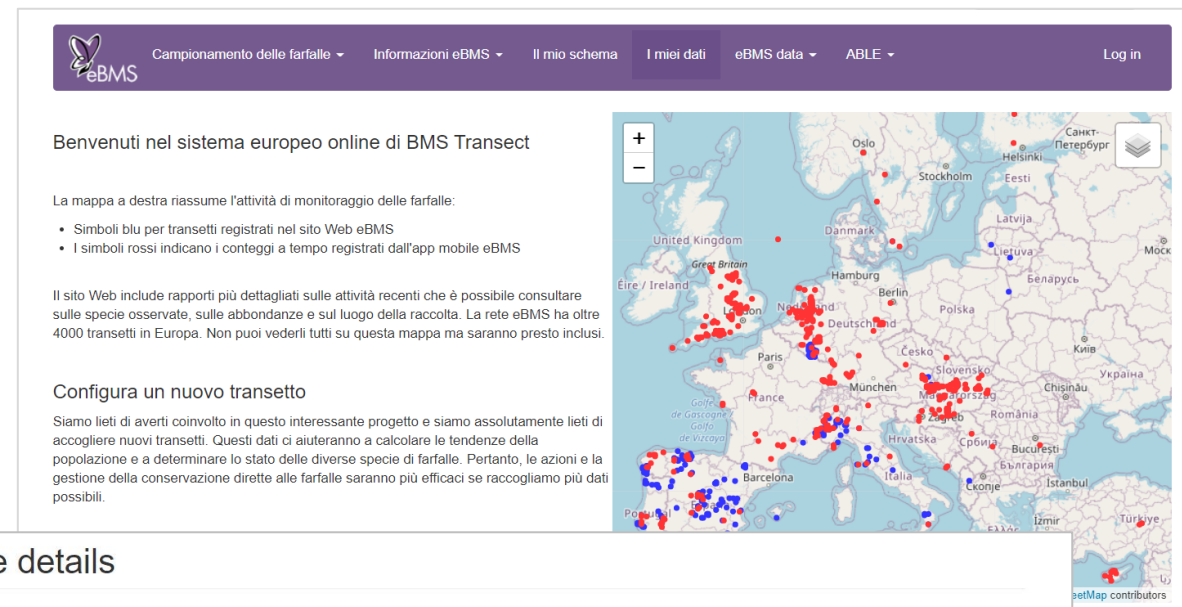
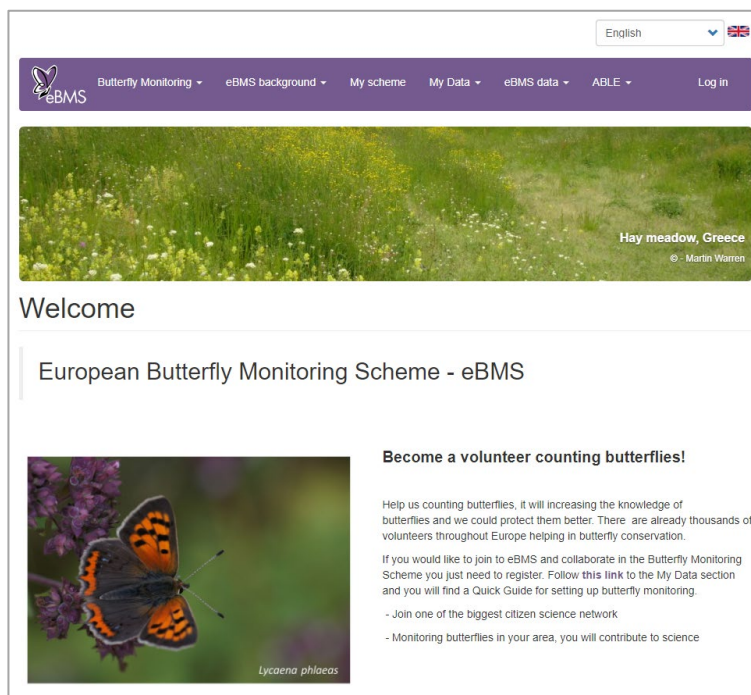


iNaturalist

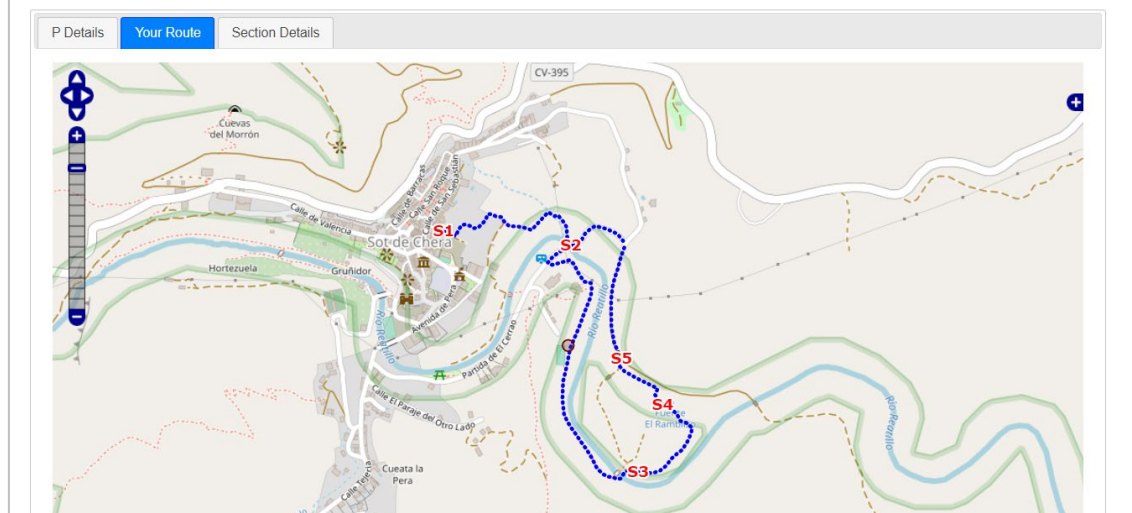
# eBMS Website

Centralised data system to support butterfly indicators: **eBMS - European Butterfly Monitoring Scheme**

Improving eBMS tool for maximizing data collection



## Site details



[www.butterfly-monitoring.net](http://www.butterfly-monitoring.net)

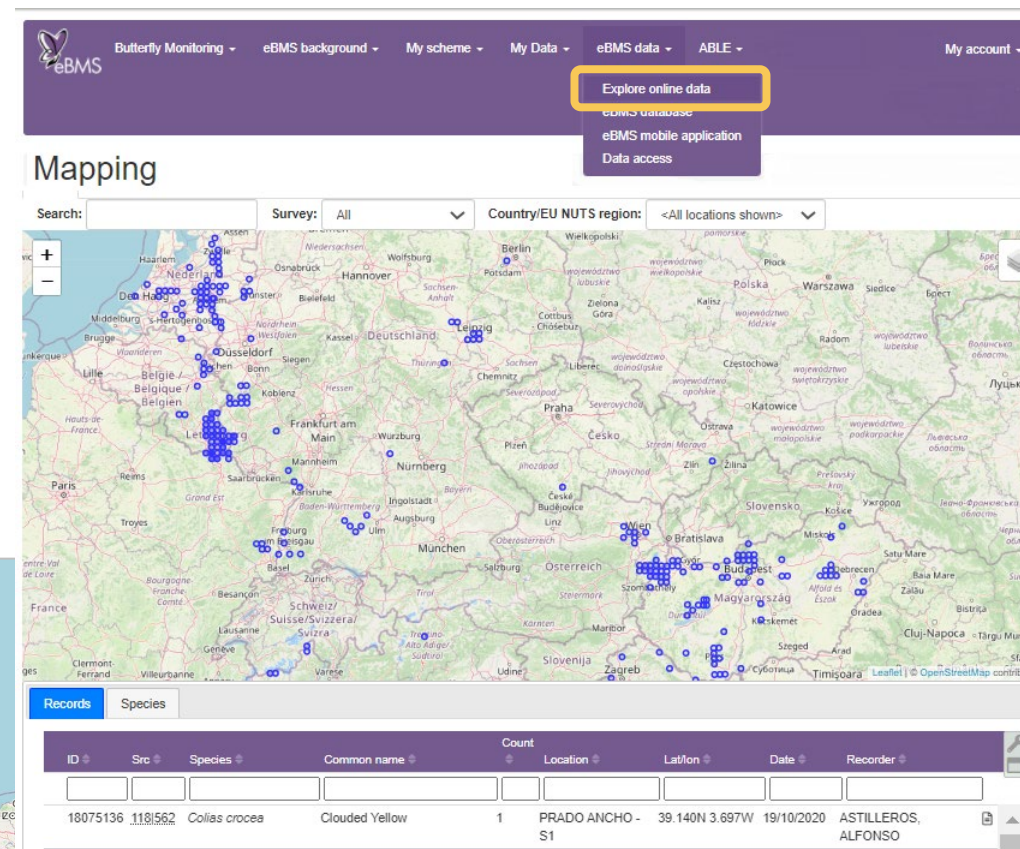


# eBMS Website

<https://butterfly-monitoring.net/elastic/all-records>

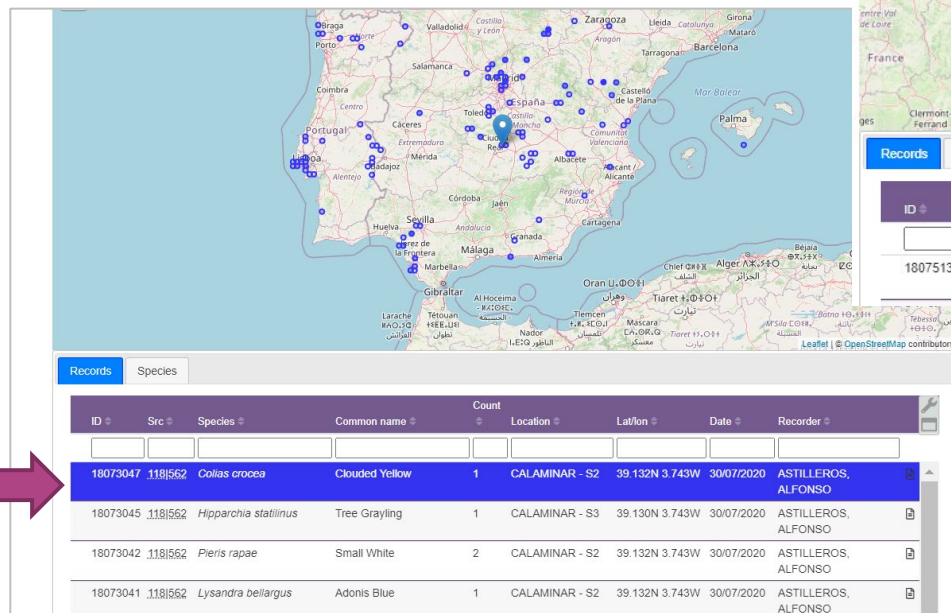
## ► Basic functions:

- Set up new transects
- Register transect visits
- Review of your data
- Download data
- See other sites monitoring butterflies in Europe: **Explore online data**



The screenshot shows the eBMS website interface. At the top, there is a navigation bar with the eBMS logo and several menu items: Butterfly Monitoring, eBMS background, My scheme, My Data, eBMS data, ABLE, and My account. The 'eBMS data' menu is expanded, showing options: Explore online data (highlighted with a yellow box), eBMS database, eBMS mobile application, and Data access. Below the navigation bar, there is a 'Mapping' section with a search bar, a 'Survey' dropdown set to 'All', and a 'Country/EU NUTS region' dropdown set to '<All locations shown>'. The main area displays a map of Europe with numerous blue dots representing butterfly records. Below the map, there is a 'Records' tab and a table showing a single record for 'Colias crocea' (Clouded Yellow) with a count of 1, recorded on 19/10/2020 by ASTILLEROS, ALFONSO.

ID	Src	Species	Common name	Count	Location	Lat/lon	Date	Recorder
18075136	1181562	Colias crocea	Clouded Yellow	1	PRADO ANCHO - S1	39.140N 3.697W	19/10/2020	ASTILLEROS, ALFONSO

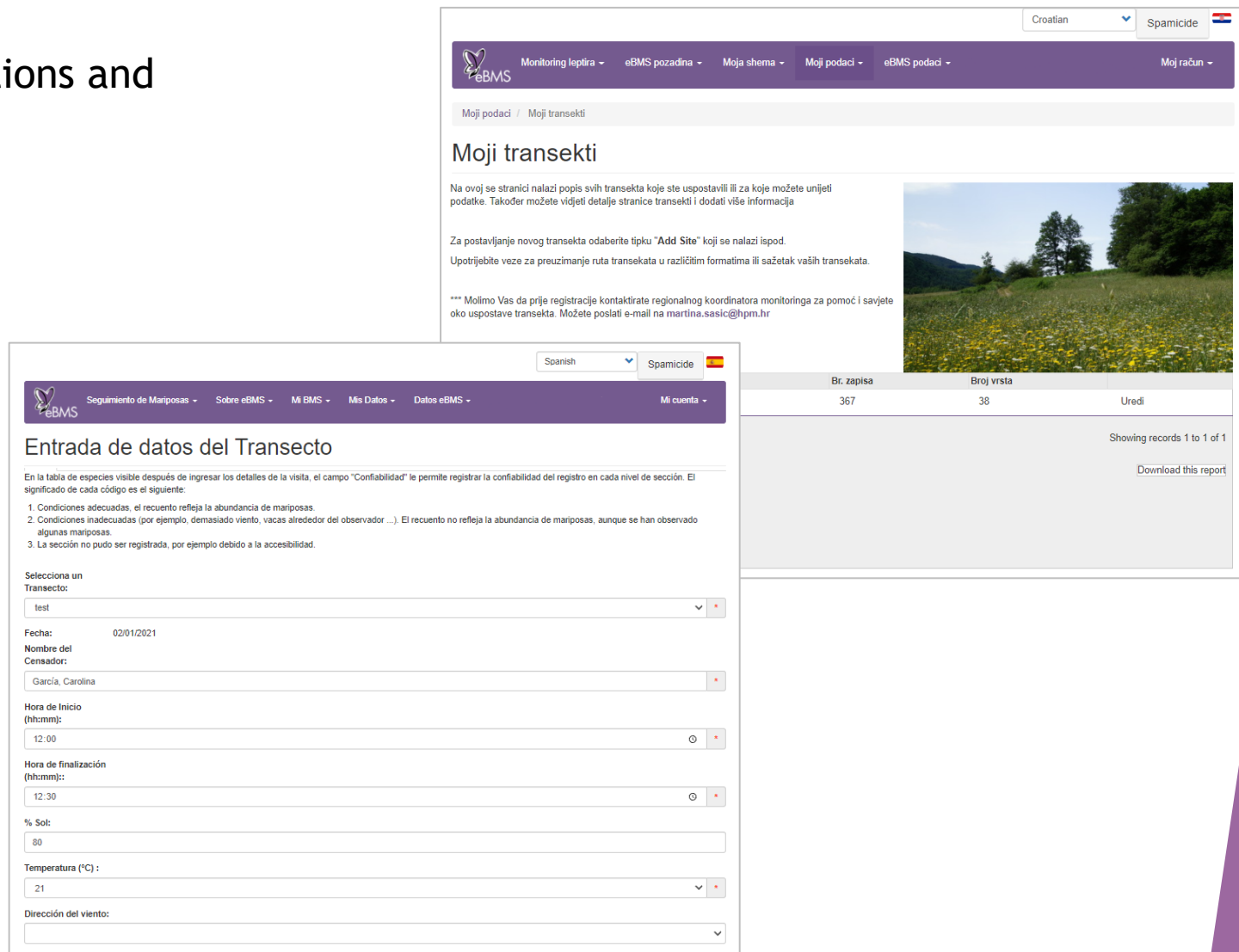


The screenshot shows a map of Spain with numerous blue dots representing butterfly records. Below the map, there is a 'Records' tab and a table showing four records for different butterfly species. A red arrow points to the first record, which is highlighted in blue.

ID	Src	Species	Common name	Count	Location	Lat/lon	Date	Recorder
18073047	1181562	Colias crocea	Clouded Yellow	1	CALAMINAR - S2	39.132N 3.743W	30/07/2020	ASTILLEROS, ALFONSO
18073045	1181562	Hipparchia statilinus	Tree Grayling	1	CALAMINAR - S3	39.130N 3.743W	30/07/2020	ASTILLEROS, ALFONSO
18073042	1181562	Pieris rapae	Small White	2	CALAMINAR - S2	39.132N 3.743W	30/07/2020	ASTILLEROS, ALFONSO
18073041	1181562	Lysandra bellargus	Adonis Blue	1	CALAMINAR - S2	39.132N 3.743W	30/07/2020	ASTILLEROS, ALFONSO

# eBMS Website

- ▶ Translations website: inner functions and adding new languages (11 total)
- ▶ Improvements:
  - Data entry pages
  - Collecting data function
  - Download data (working)



The image shows two screenshots of the eBMS website. The top screenshot is the 'Moji transekti' (My transects) page in Croatian. It features a navigation bar with 'Monitoring leptira', 'eBMS pozadina', 'Moja shema', 'Moji podaci', 'eBMS podaci', and 'Moj račun'. The main content area has a heading 'Moji transekti' and a description: 'Na ovoj se stranici nalazi popis svih transekti koje ste uspostavili ili za koje možete unijeti podatke. Također možete vidjeti detalje stranice transekti i dodati više informacija.' Below this is a text block about adding new transects: 'Za postavljanje novog transeкта odaberite tipku "Add Site" koji se nalazi ispod. Upotrijebite veze za preuzimanje ruta transekata u različitim formatima ili sažetak vaših transekata.' A note at the bottom says: '\*\*\* Molimo Vas da prije registracije kontaktirate regionalnog koordinatora monitoringa za pomoć i savjete oko uspostave transeкта. Možete poslati e-mail na [martina.sasic@hpm.hr](mailto:martina.sasic@hpm.hr)'.

The bottom screenshot is a data entry form titled 'Entrada de datos del Transecto' in Spanish. It includes a navigation bar with 'Seguimiento de Mariposas', 'Sobre eBMS', 'Mi BMS', 'Mis Datos', 'Datos eBMS', and 'Mi cuenta'. The form contains the following fields:

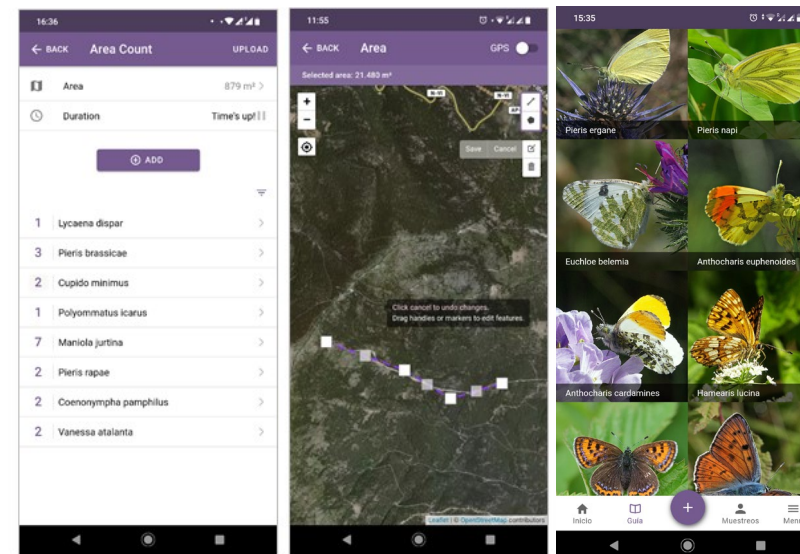
- Transecto: A dropdown menu with 'test' selected.
- Fecha: 02/01/2021
- Nombre del Censador: García, Carolina
- Hora de Inicio (hh:mm): 12:00
- Hora de finalización (hh:mm): 12:30
- % Sol: 80
- Temperatura (°C): 21
- Dirección del viento: A dropdown menu.

# ButterflyCount app

- ▶ A mobile application to collect **butterfly count data** across Europe in an easy way



Butterfly  
Count  
App



Register butterfly observations with a smartphone by:

- ❖ eBMS transects
- ❖ 15-min Counts

Useful tool:

- ▶ Translated into 15 languages
- ▶ Search by common or Latin names
- ▶ Other taxa: moths, dragonflies, bumblebees (European species)

More info: <https://butterfly-monitoring.net/ebms-app>



# ButterflyCount app

## ❖ Transects: *how to do it on the app?*

- ▶ An eBMS account is needed and the transect is registered under the eBMS system (migration)
- ▶ Easy to do: select the transect, the section to record and start adding species
- ▶ Common species names: for several languages

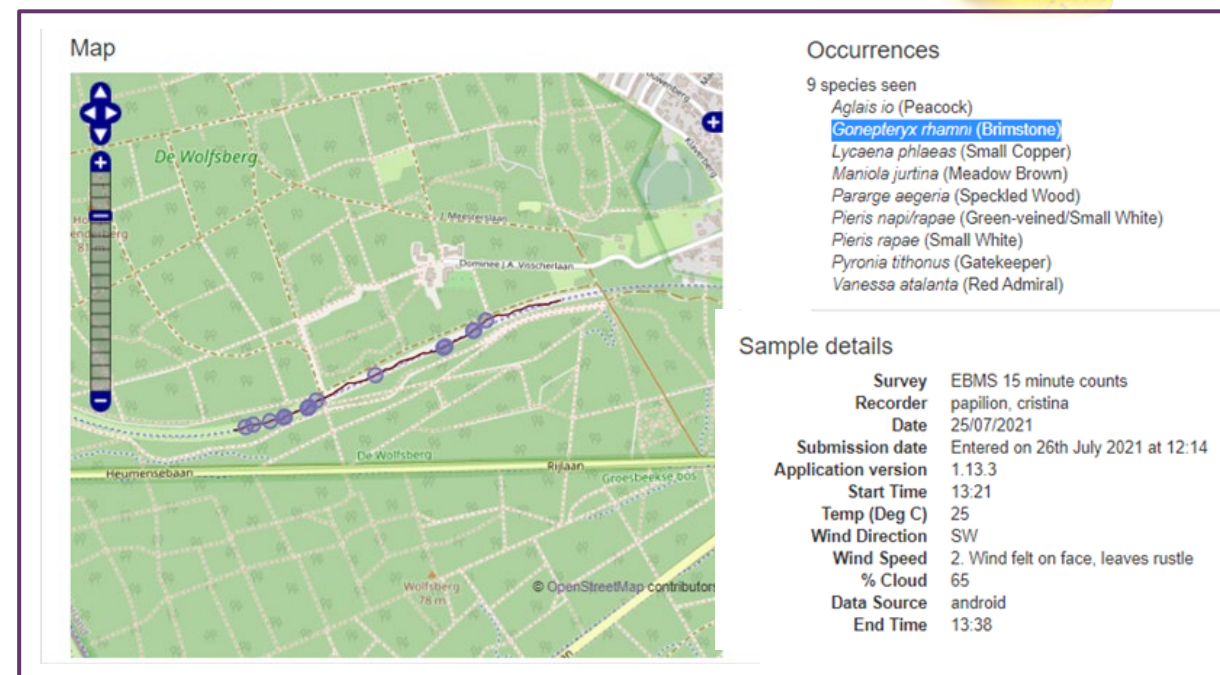
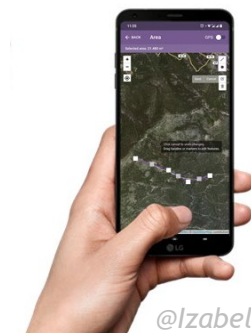


# ButterflyCount app

## ❖ 15-min counts: *how to do it on the app?*

Method for counting butterflies in an area, route or fixed point for 15 minutes. GPS of the app records your route.

- You just need an eBMS account
- You can use it anywhere in Europe: in the top of a mountain, in a valley, on the beach, in your garden, during holidays...
- Extra information: take pictures, environmental variables, and notes
- Every individual coordinate is registered

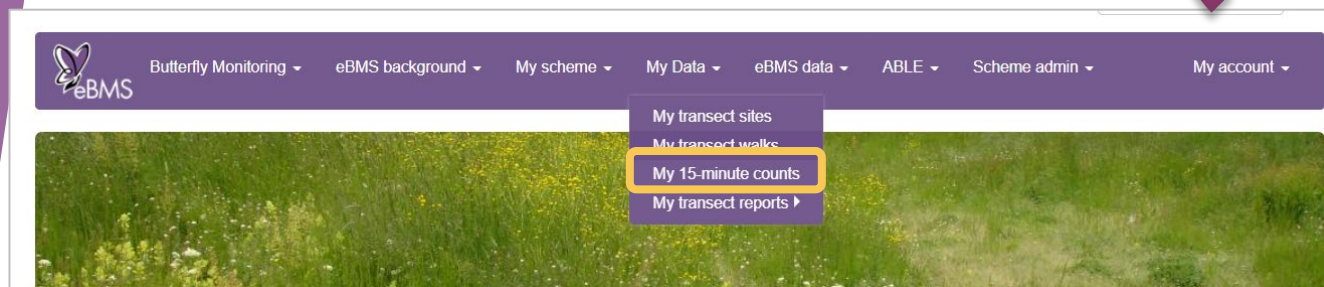




# ButterflyCount app

- ▶ All the data register with ButterflyCount app can edit and review on eBMS website
- My data -> My 15minute counts

*Almost ready for live website*



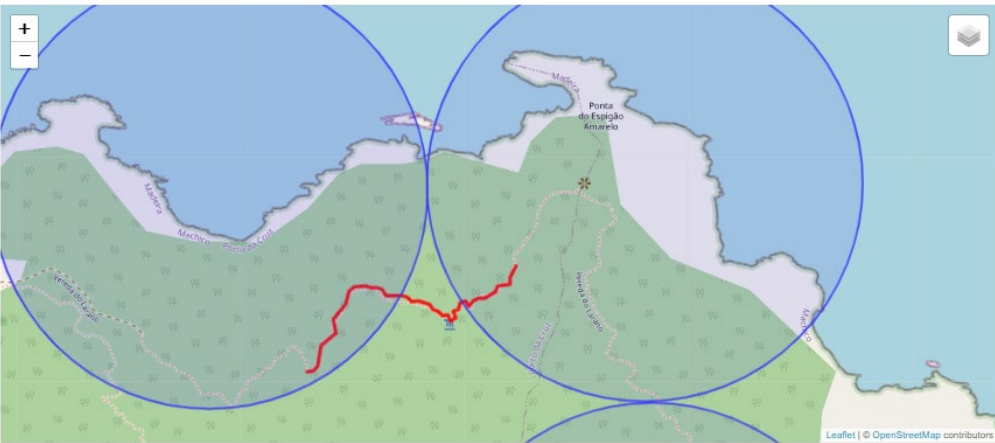
<https://butterfly-monitoring.net/elastic/my-records>

Download your  
data and routes

My samples

Search:  Country/EU NUTS region: <All locations shown> ▼

For more information, see NUTS regions.



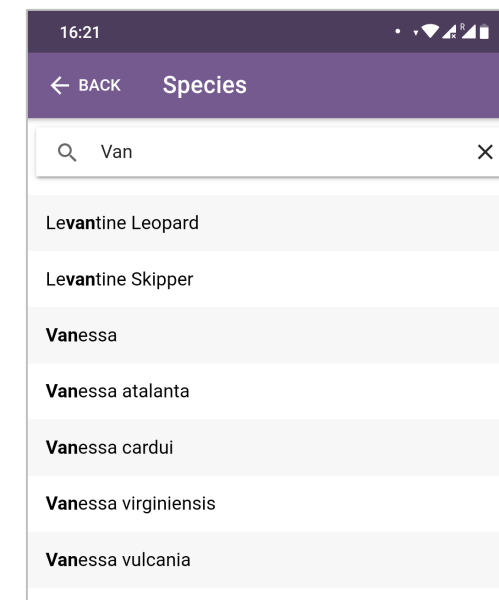
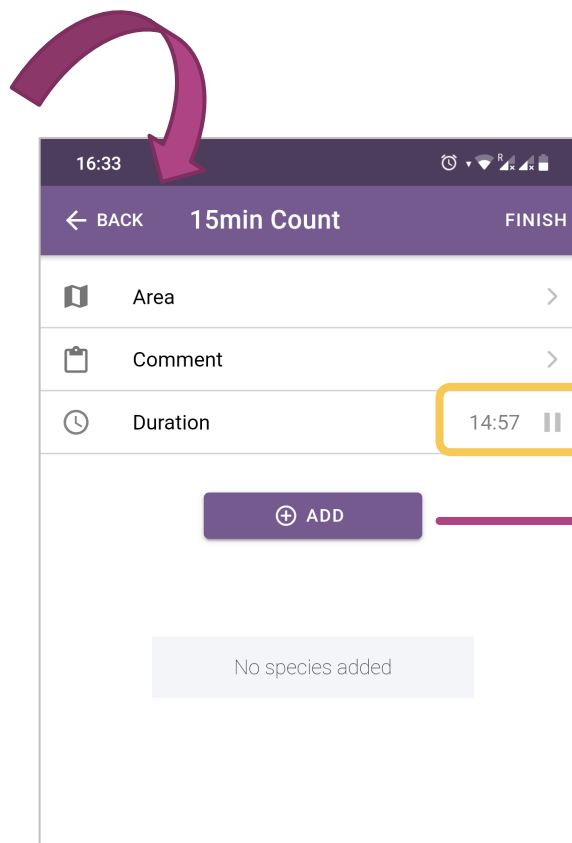
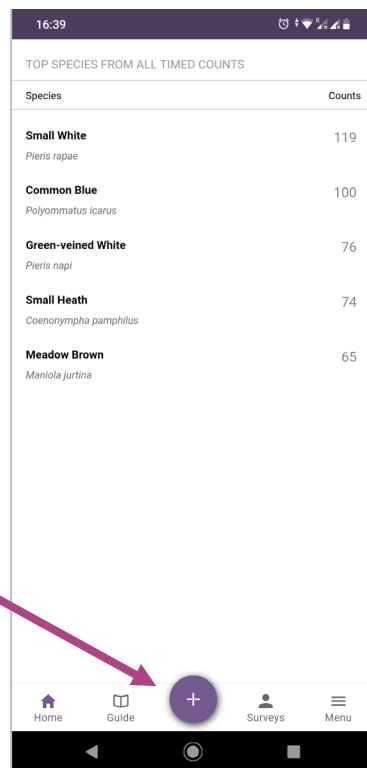
Samples Download

ID	Survey	Date	Start Time	End Time	Area sampled (m²)	Species
15533938	EBMS 15 minute counts	14/09/2021	15:06	15:21	9922	3
15533917	EBMS 15 minute counts	14/09/2021	14:49	15:05	7497	2
15533910	EBMS 15 minute counts	14/09/2021	14:16	14:49	6991	3
15533903	EBMS 15 minute counts	14/09/2021	14:00	14:16	8418	1

# ButterflyCount app

❖ 15-min counts: *how to do it on the app?*

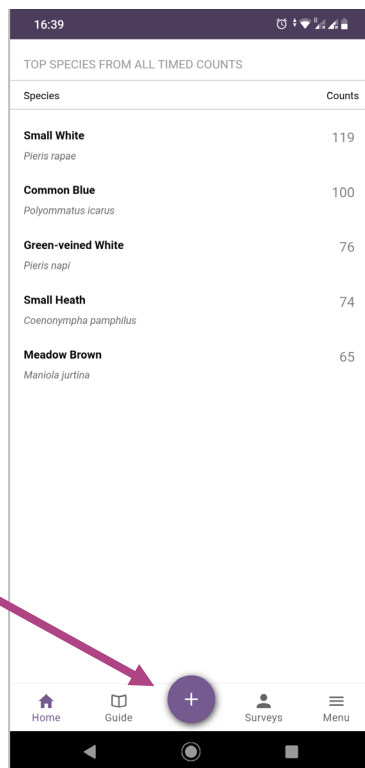
Press +  
button



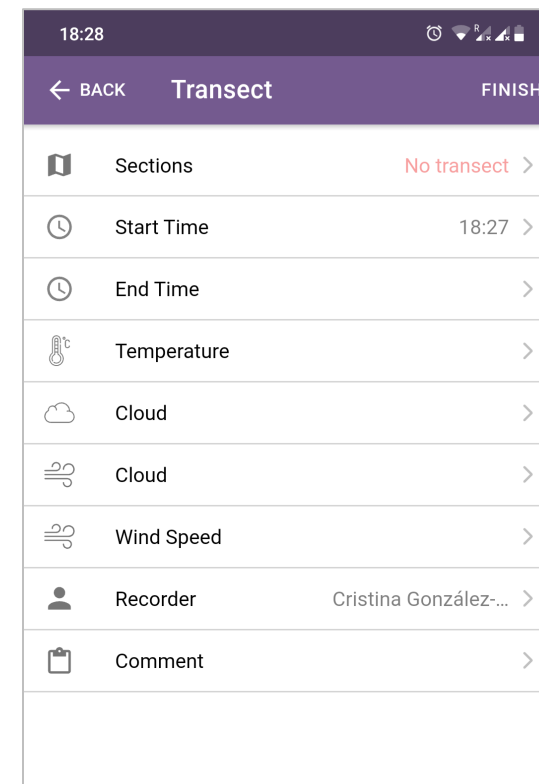
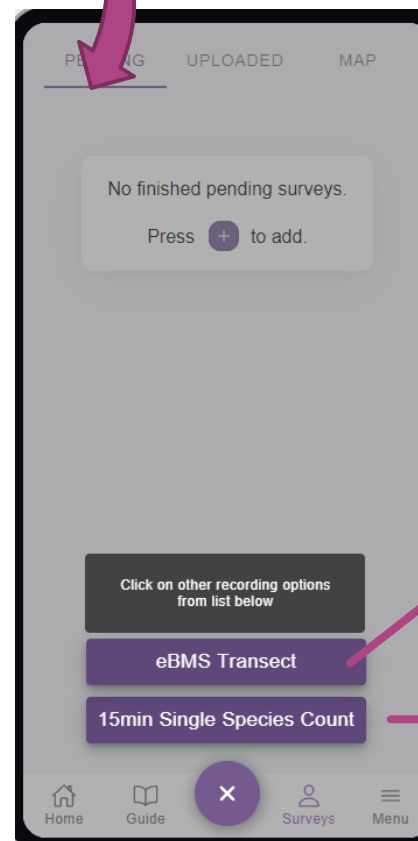
# ButterflyCount app

❖ *Other methods: how to do it on the app?*

Press long  
+ button



TOP SPECIES FROM ALL TIMED COUNTS	
Species	Counts
<b>Small White</b> <i>Pieris rapae</i>	119
<b>Common Blue</b> <i>Polyommatus icarus</i>	100
<b>Green-veined White</b> <i>Pieris napi</i>	76
<b>Small Heath</b> <i>Coenonympha pamphilus</i>	74
<b>Meadow Brown</b> <i>Maniola jurtina</i>	65



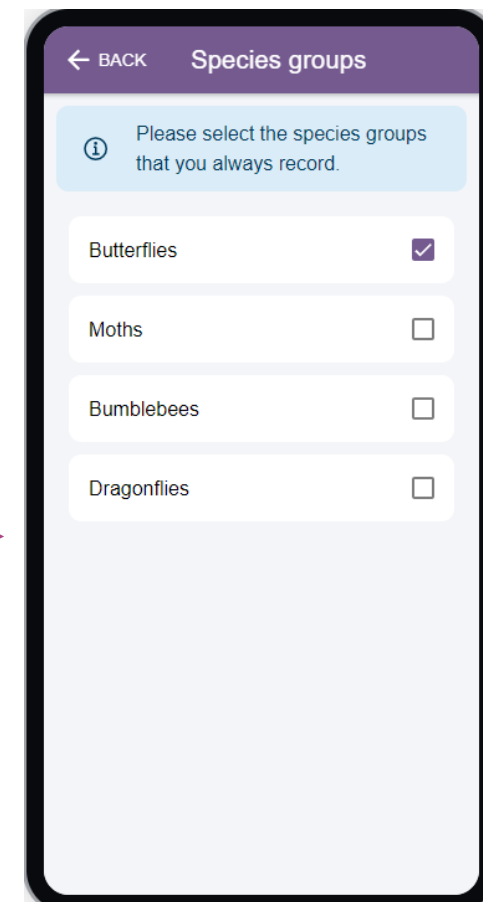
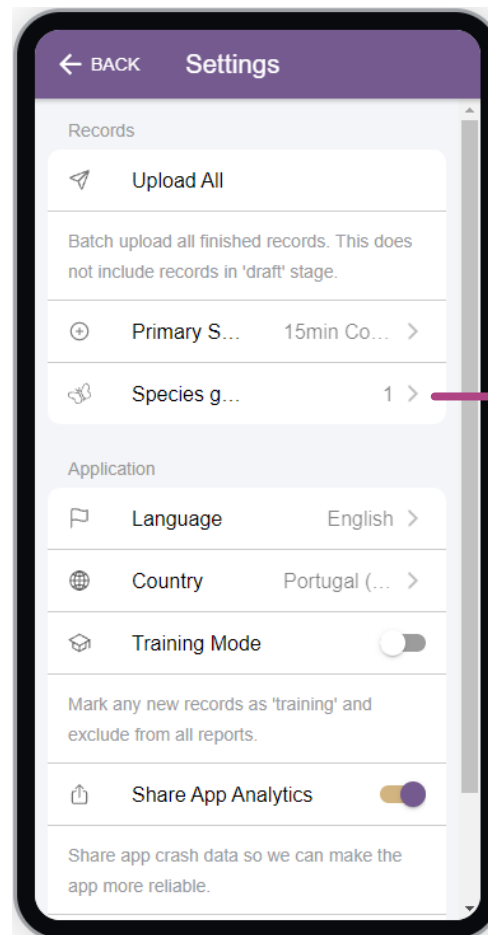
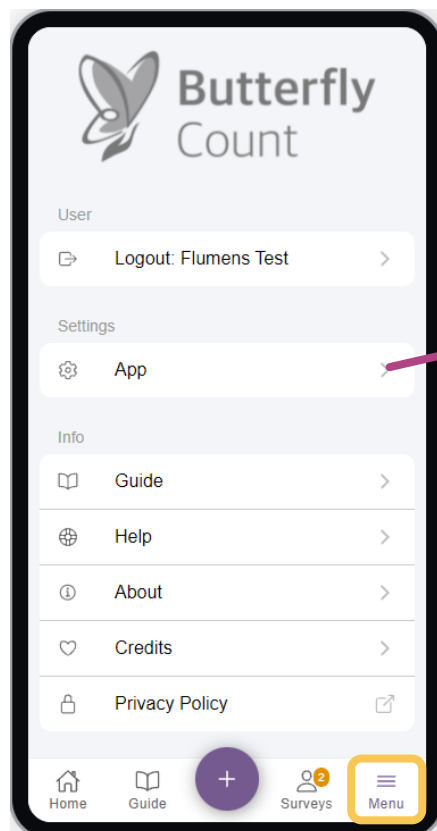
	Transect	FINISH
Sections	No transect >	
Start Time	18:27 >	
End Time	>	
Temperature	>	
Cloud	>	
Cloud	>	
Wind Speed	>	
Recorder	Cristina González-... >	
Comment	>	

15-min count for ONE  
species: threatened, HD  
species...



# ButterflyCount app

## ❖ *Settings: other taxa*

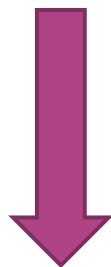


Menu -> Settings

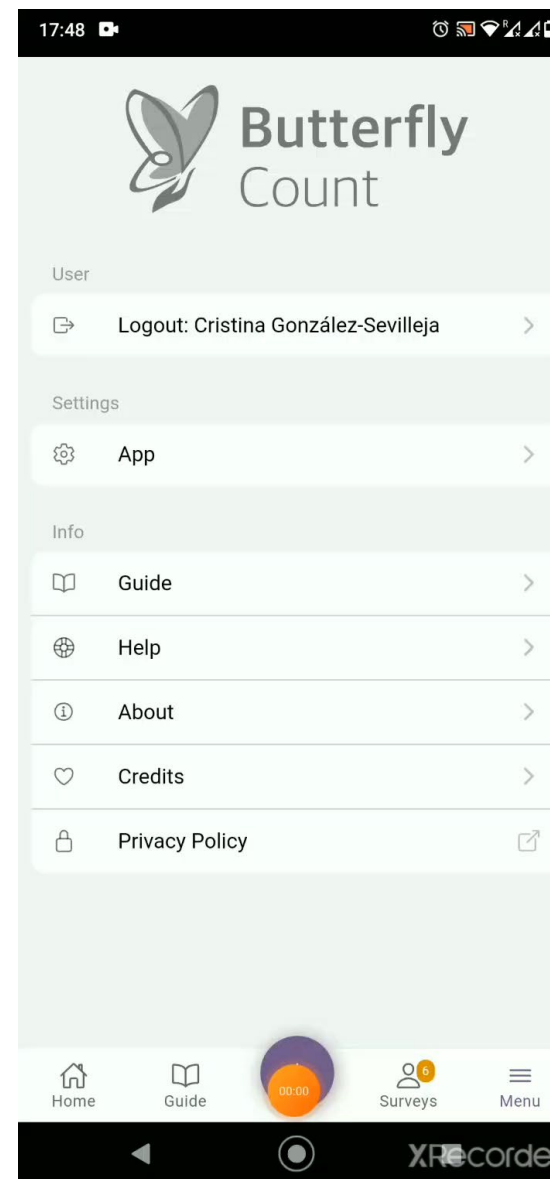
More info: <https://butterfly-monitoring.net/ebms-app>

# eBMS tools: videos

- Improving training: explanatory videos of eBMS tools (simple and shorts)

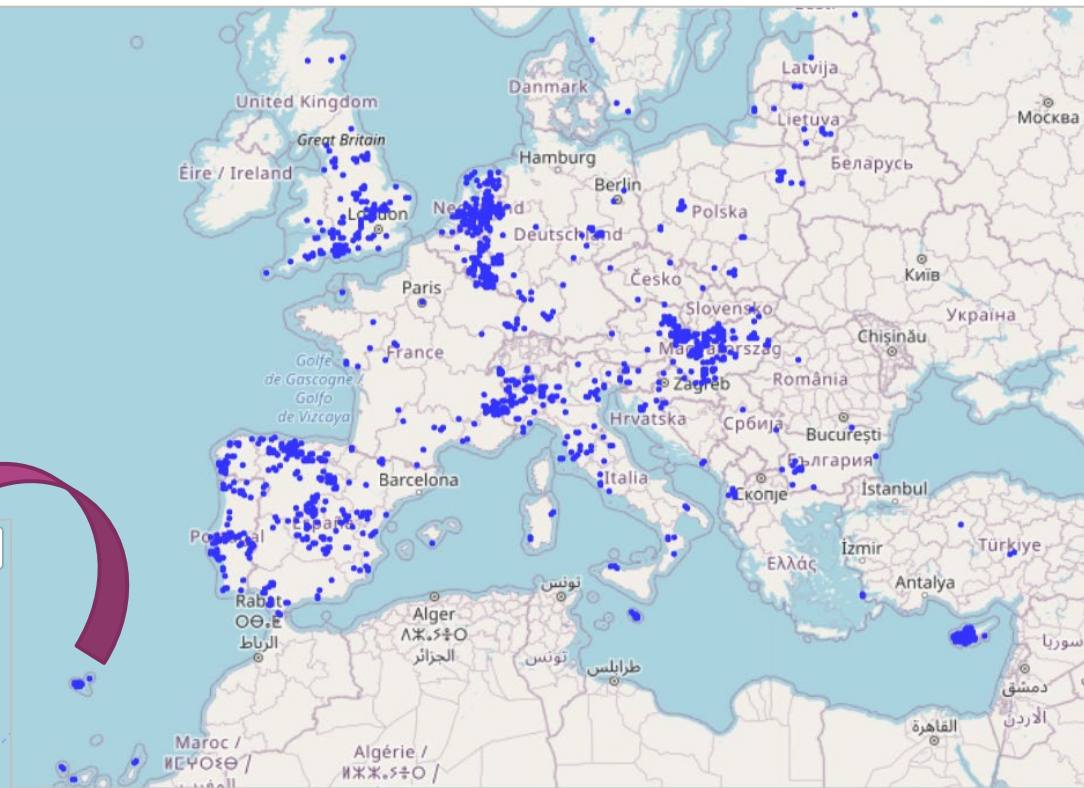
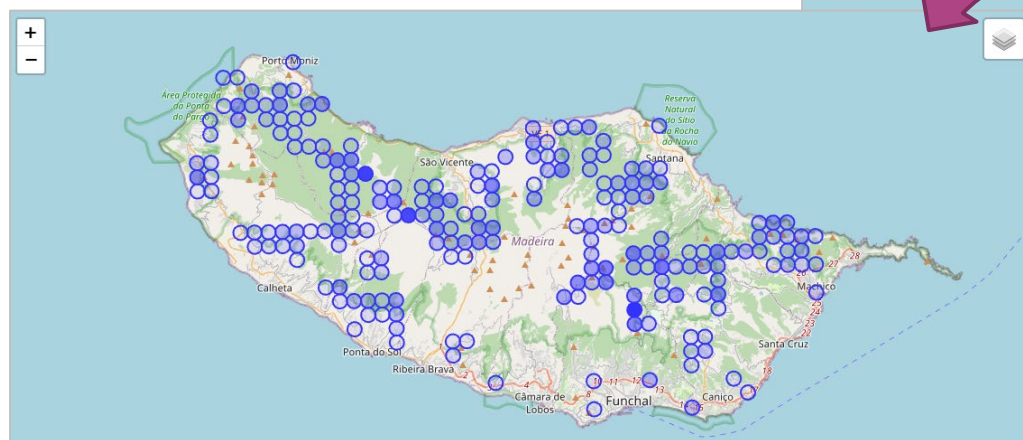


BCE YouTube channel



# eBMS network

20/10/2021



eBMS network continues growing





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