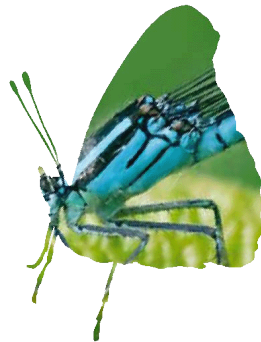


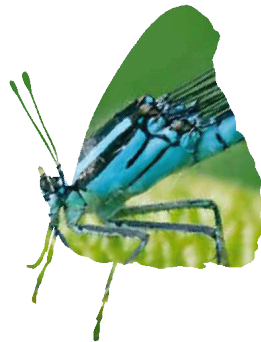
# Online portals, quality control and what we can do

Chris van Swaay  
De Vlinderstichting



# Distribution data as we used to

Froschberg, Blumbergheim 1/7/2006  
Mgale Mjint Cnishi Spruni  
Cseini Pargus Litty L Lupp  
Lmege Lsiha Acroat Anvoti



# Distribution data with apps

The NDFF app interface shows a form for recording a new observation. The title is "Nieuwe waarneming". Below the title is a toggle for "Toon alle velden". The form fields include: a coordinate field with the value "173441 : 442019 ± 6m", a date and time field "03 - 04 - 2017 14:09:31", a search field with the text "gehakkelde aurelia", a quantity field with the value "1", a field for "bestanden" with a plus icon, a field for "onbepaald" with a dropdown arrow, and a field for "opmerking". At the bottom are "Reset" and "Opslaan" buttons.

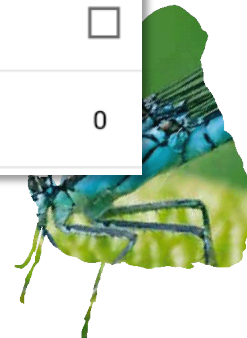
NDFF

The Observado (Obsmap) app interface shows a form for recording a new observation. The title is "Nieuwe waarneming". Below the title is a location pin icon and coordinates "51.966345 5.655442 (±8m)". The form fields include: a field for "Vanessa atalanta", a field for "Aantal" with the value "1" and plus/minus buttons, a field for "Gedrag" with the value "Ter plaatse", a field for "Kleed" with the value "Imago", a field for "Telmethode" with the value "Onbekend", a field for "Relatie met" with a dropdown arrow, and a field for "Selecteer soort". At the bottom is an "Opslaan" button.

Observado (Obsmap)




The iNaturalist app interface shows the details of an observation. The title is "Details". Below the title is a photo of a butterfly and a checkmark. The form fields include: a field for "Dagpauwoog" with the value "Aglais io", a field for "Notes", a field for "15 okt. 2017" with the time "3:32 p.m. CEST", a field for "Hakselseweg 1, 6713 KT Ede, Nederla..." with coordinates "Lat: 52.03166580... Lon: 5.653055667...", a field for "Location is Open", a field for "It is captive or cultivated" with a checkbox, and a field for "Add to project(s)" with the value "0".

iNaturalist









































# Digitized data

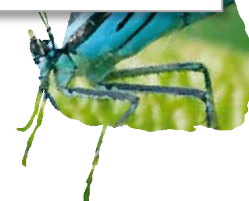
Chris van Swaay | inbox |

inbox   move to rows per page: 16 

first <100- <10- previous **1** 2 3 4 next 10+> 100+> last (690) 11037 records

		 species 	eng	date 	count	life stage/sex	location 				
1	<input type="checkbox"/>	✓	Polygonia c-album	28-3-17	1 count	not recorded					
2	<input type="checkbox"/>	✓	Gonepteryx rhamni	28-3-17	1 count	not recorded					
3	<input type="checkbox"/>	✓	Gonepteryx rhamni	28-3-17	1 count	not recorded					
4	<input type="checkbox"/>	✓	Polygonia c-album	28-3-17	1 count	not recorded					
5	<input type="checkbox"/>	✓	Aglaia io	27-3-17	1 count	not recorded					
6	<input type="checkbox"/>	✓	Aglaia urticae	27-3-17	1 count	not recorded					
7	<input type="checkbox"/>	✓	Gonepteryx rhamni	27-3-17	1 count	not recorded					
8	<input type="checkbox"/>	✓	Gonepteryx rhamni	27-3-17	1 count	not recorded					
9	<input type="checkbox"/>	✓	Archiearis parthenias	26-3-17	1 count	not recorded					
10	<input type="checkbox"/>	✓	Aglaia io	26-3-17	1 count	not recorded					
11	<input type="checkbox"/>	✓	Polygonia c-album	26-3-17	1 count	not recorded					
12	<input type="checkbox"/>	✓	Gonepteryx rhamni	26-3-17	1 count	not recorded					
13	<input type="checkbox"/>	✓	Gonepteryx rhamni	26-3-17	1 count	not recorded					
14	<input type="checkbox"/>	✓	Aglaia urticae	25-3-17	1 count	not recorded					
15	<input type="checkbox"/>	✓	Aglaia urticae	25-3-17	1 count	not recorded					
16	<input type="checkbox"/>	✓	Polygonia c-album	25-3-17	1 count	not recorded					

first <100- <10- previous **1** 2 3 4 next 10+> 100+> last (690) 11037 records



# Online portals



Observation.org

Add ▾ My Data ▾ Observations ▾ Species ▾ Pics & sounds ▾ Geography ▾ This site ▾

## Recent Rarities

Butterflies

Birds

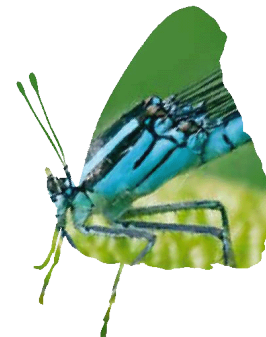
Mammals

Reptiles and Amphibians

<select>

Generated: Sat 04 Nov 2017 08:07:41 CET next refresh: 08:37:41

Date	#	Species	Area
 30-10-2017 16:50	1	African Grass Blue - <i>Zizeeria knysna</i>	 Spain - Ciudad de Cordoba [ES]
 29-10-2017 17:10	3	African Grass Blue - <i>Zizeeria knysna</i>	 Spain
 26-10-2017	1	Mediterranean Skipper - <i>Gegenes nostrodamus</i>	Spain - Tolox [ES]
 25-10-2017 14:00	1	Spotted Fritillary - <i>Melitaea didyma</i>	 Switzerland - Jurapark Aargau [CH]





# Online portals

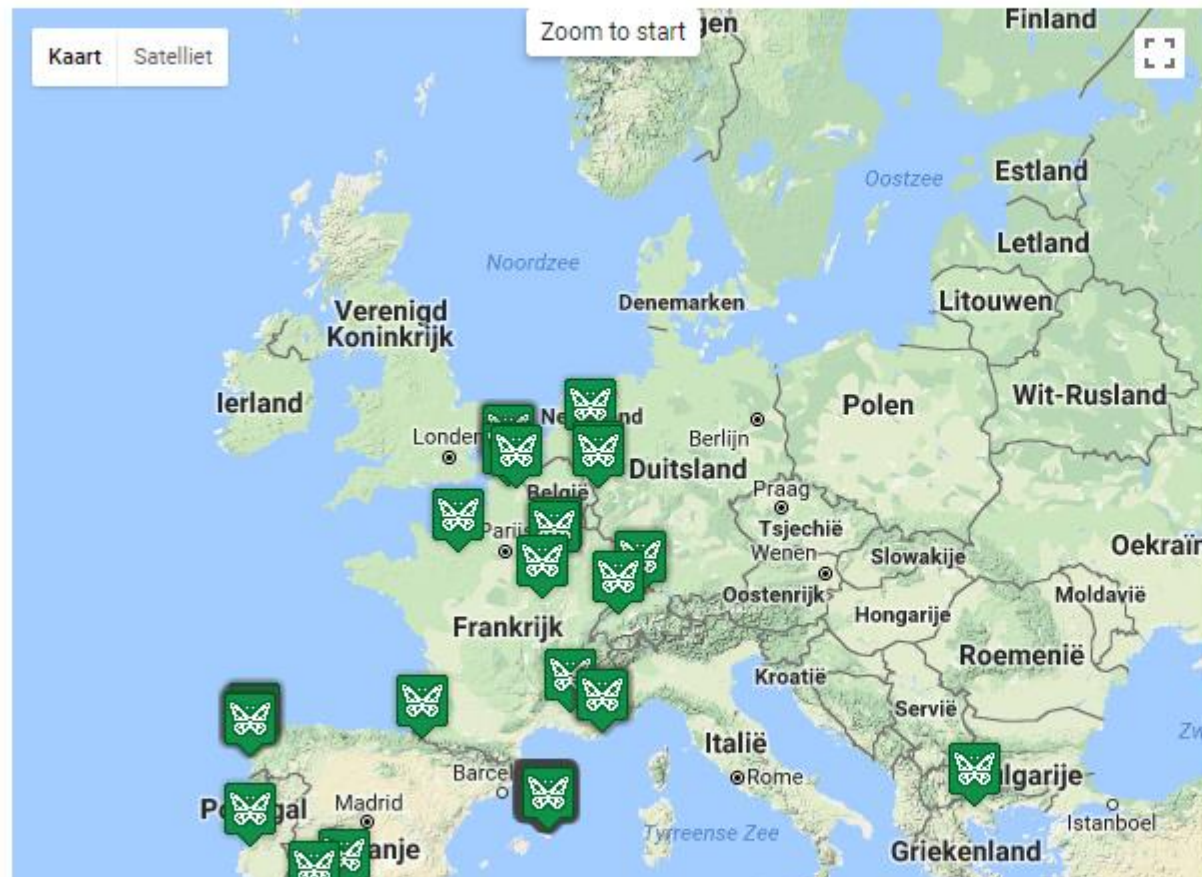
[bc-europe.observation.org/map\\_lastobs\\_v2.php](http://bc-europe.observation.org/map_lastobs_v2.php)



## Butterfly Conservation Europe (BCE)

Add ▾ Observations ▾ Overviews ▾ My observation.org ▾ Regional Admin Options ▾

### Recent observations



### legend

Small Heath - <i>Coenonympha pamphilus</i>	2017-11-03
Wall Brown - <i>Lasiommata megera</i>	2017-11-03
Painted Lady - <i>Vanessa cardui</i>	2017-11-03
Lang's Short-tailed Blue - <i>Leptotes pirithous</i>	2017-11-03
Red Admiral - <i>Vanessa atalanta</i>	2017-11-03
Speckled Wood - <i>Pararge aegeria</i>	2017-11-03
Cleopatra - <i>Gonepteryx cleopatra</i>	2017-11-03
Clouded Yellow - <i>Colias croceus</i>	2017-11-03
Small Copper - <i>Lycaena phlaeas</i>	2017-11-03
Pale Clouded Yellow - <i>Colias hyale</i>	2017-11-03
Large White - <i>Pieris brassicae</i>	2017-11-03
Green-veined White - <i>Pieris napi</i>	2017-11-03
Geranium Bronze - <i>Cacyreus marshalli</i>	2017-11-02
Red Admiral - <i>Vanessa atalanta</i>	2017-11-02
Speckled Wood - <i>Pararge aegeria</i>	2017-11-02
Cleopatra - <i>Gonepteryx cleopatra</i>	2017-11-02
Wall Brown - <i>Lasiommata megera</i>	2017-11-02
Painted Lady - <i>Vanessa cardui</i>	2017-11-02
Peacock - <i>Aglais io</i>	2017-11-02
Large White - <i>Pieris brassicae</i>	2017-11-02
White spec. - <i>Pieris spec.</i>	2017-11-02
Comma Butterfly - <i>Polygonia c-album</i>	2017-11-02
Geranium Bronze - <i>Cacyreus marshalli</i>	2017-11-01
Small Heath - <i>Coenonympha pamphilus</i>	2017-11-01
Speckled Wood - <i>Pararge aegeria</i>	2017-11-01



Observation.org

Add ▾ My Data ▾ Observations ▾ Species ▾ Pics & sounds ▾ Geography ▾ This site ▾

## Desert Orange-tip - *Colotis evagore* (Klug, 1829)

Species group: Butterflies Family: Pieridae (Whites) Status: native, Species Rarity: Relatively common

Subspecies: *Colotis evagore evagore*

Subspecies: *Colotis evagore antigone*

Subspecies: *Colotis evagore niveus*

### Maps

from  to

Activity \*  
All  
present  
discovery (dead) ▾

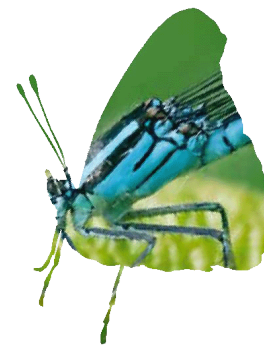
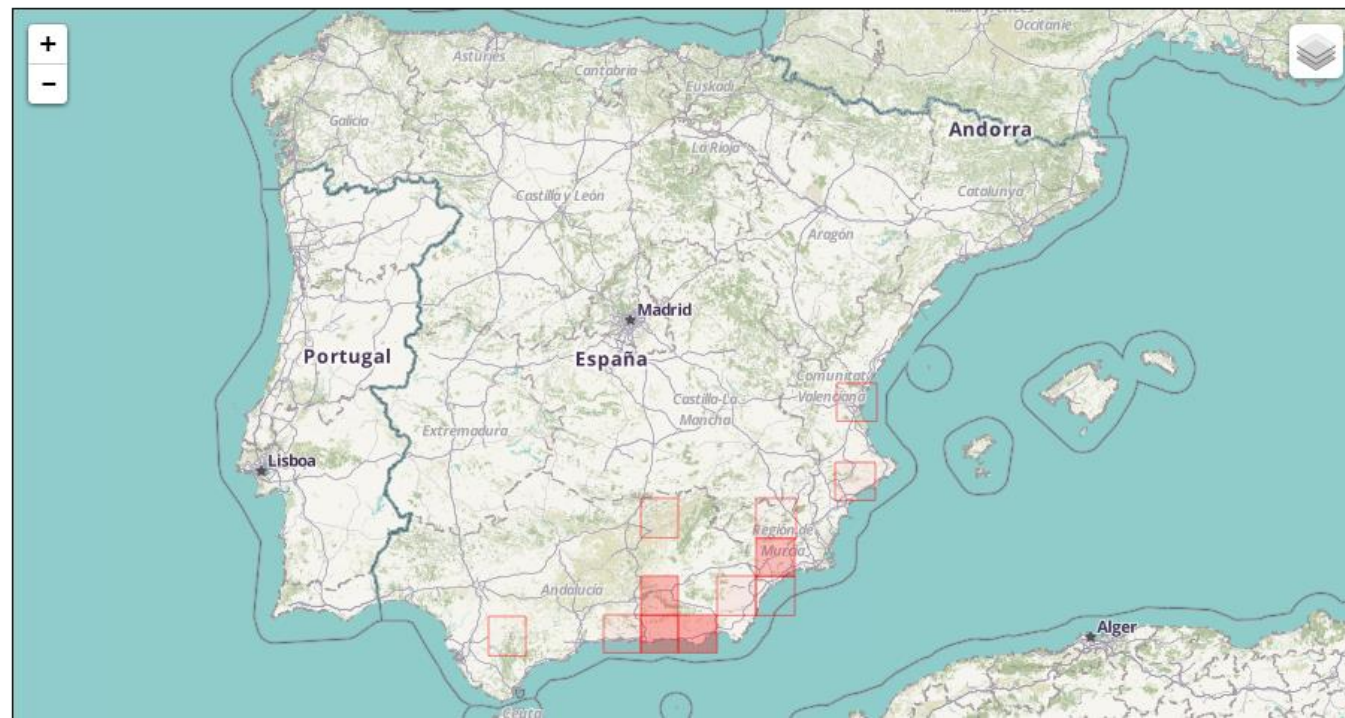
show heatmap ☒ No ☐ Yes

sort by  
grid ☒ Individuals observed ☐ Observations

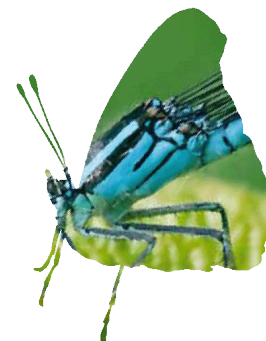
second species

Season

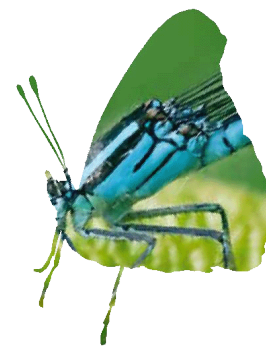
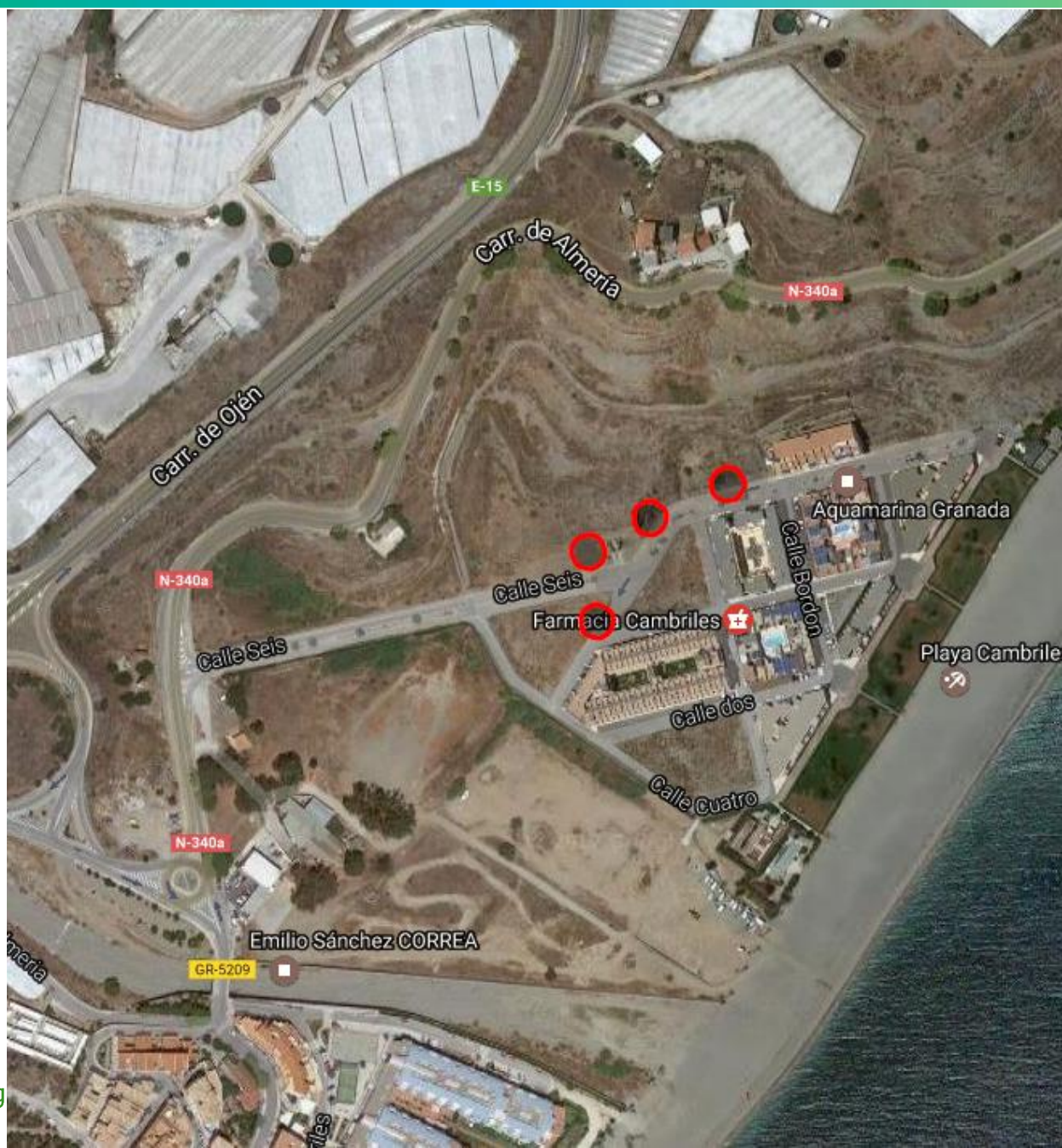
only approved observations












# Quality control on observado

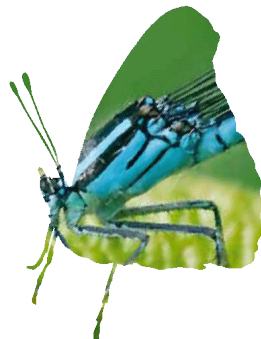


**Observation.org**  
Add ▾ My Data ▾ Observations


---

## Observations management

- Admin todo list
- Moderate observations New !
- Validate observations by day
- Validation on user level
- Reported observations
- validate relations
- Validate per area
- Moderate observations by photos
  - Europe
  - Middle East
  - Africa
  - Asia
  - Oceania
  - North America
  - South America
- Validate observation with photos by day
- Validate by Youtube movies
- WAITING\_DAYS
- Hidden photos
- Moderate observations by sound
  - Europe
  - Middle East
  - Africa
  - Asia
  - Oceania
  - North America
  - South America
- Moderate observations by phenology
- Comments
- Species with autovalidation on
- Maintain exclusions on automatic approval



# Observado: admin validate per day

 **Observation.org**


[Add](#) ▾ [My Data](#) ▾ [Observations](#) ▾ [Species](#) ▾ [Pics & sounds](#) ▾ [Geography](#) ▾ [This site](#) ▾

## Photos

MAXIMUM 100 RECORDS  
shows all photo's of 1 observation added today

rarity

species group


date  

species


family


sort by


page 1 next 50




1

Chapman's Blue   
*Polyommatus thersites*  
20-04-2016, Cole De Schepper  
Greece - Parnassos mountains




Chapman's Blue   
*Polyommatus thersites*  
20-04-2016, Cole De Schepper  
Greece - Parnassos mountains

Number 1  
plumage unknown  
Activity present





# Observado: admin validate photos



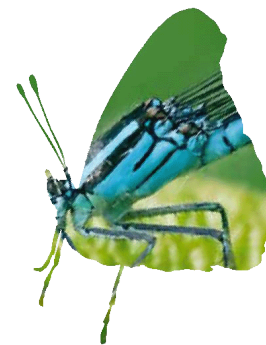
**Biodiversity Europe**

[Add](#) ▾ [Observations](#) ▾ [Overviews](#) ▾ [My observation.org](#) ▾ [Projects](#) ▾

species group   ☒ expand to genus/species

[All species](#)

Family	soort/genus	Number Observations
-		672
	Genus : Rhopalocera	
	Butterfly unknown - Rhopalocera spec	672
Nymphalidae (Brush-footed Butterflies)		5,081
	Genus : Apatura	
	Freyer's Purple Emperor - Apatura metis	1
	Genus : Argynnis	
	Niobe Fritillary - Argynnis niobe	36
	Dark Green Fritillary - Argynnis aglaja	68
	High Brown Fritillary - Argynnis adippe	58
	Niobe Fritillary - Argynnis niobe eris	5
	Argynnis spec.	1





# Observado: admin validate photos



## Photos Lycaeinidae (Gossamer-winged butterflies)



Eros Blue  
*Polyommatus eros*  
♀ 14-07-2017, Jurgen Couckuyt  
Albania - Shkoder



Eros Blue  
*Polyommatus eros*  
♀ 14-07-2017, Jurgen Couckuyt  
Albania - Shkoder



Eros Blue  
*Polyommatus eros*  
♀ 14-07-2017, Jurgen Couckuyt  
Albania - Shkoder



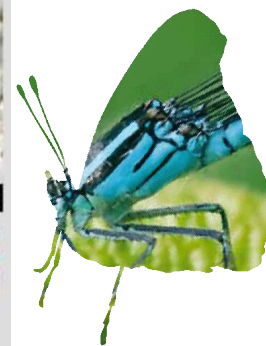
Eros Blue  
*Polyommatus eros*  
22-06-2017, Pieter Stolwijk  
Switzerland - Val Sinestra



Eros Blue  
*Polyommatus eros*  
10-08-2017, Jaap Westra  
Macedonia - outside Lake Ohrid



Eros Blue  
*Polyommatus eros*  
18-07-2017, Jan Bos  
France - Pralognan-la-Vanoise



# Observado.org / Observation.org

- Closed system, data not free for download, not uploaded to gbif (yet?)
- Data-centered
- BCE can download observado data for internal use
- Advance online possibilities
- Quality control centered around a few admins (including Rudi Verovnik and Chris van Swaay)
- Extra help for quality control would be welcome, especially if you like communicating with volunteers



# Online portals: iNaturalist



chrisvanswaay

[Home](#) [Profile](#) [Observations](#) [Calendar](#) [IDs](#) [Lists](#) [Journal](#) [Favorites](#) [Projects](#)

[All Updates](#) [Your Content](#) [Following](#) [Real Time Discussions](#)

[+ Add Observations](#)

katya added an identification to an [observation](#) by p\_alonso

2:25 am



Dark Green Fritillary *Argynnis aglaja*

[p\\_alonso](#) | [June 27, 2016](#) | [2](#) [Research Grade](#)

[La Rioja, España \(Google, OSM\)](#)

[View observation](#)



katya added an identification

2:25 am



Dark Green Fritillary  
(*Argynnis aglaja*)

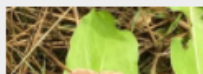
[Agree?](#)

[View observation](#)

[Show more...](#)

antrasti added an identification to an [observation](#)

Nov 3



Meadow Brown *Maniola jurtina*

[antrasti](#) | [July 10, 2017](#) | [2](#) [Research Grade](#)

Subscriptions [?](#)



[Subscribe to a Taxon](#)

[Subscribe to a Place](#)

More

Getting Started Guide [×](#)

Let us walk you through the main features of this site.

[Get started](#)

Blog widget

Show off your recent observations on your own blog or website!

[Learn More](#)

# Project: butterflies of Europe



## Butterflies of Europe

[Add observations to this project](#)

### Stats

#### Totals

**31357**

Observations »

**458**

Species »

**1906**

People »

#### Most Observations



**mortenddhansen**  
2756 observations



**sindic**  
1200 observations



**chrisvanswaay**  
1003 observations



**fdejuana**  
990 observations



**speedy**  
964 observations

#### Most Species



**arnoldwijker**  
262 species



**chrisvanswaay**  
215 species



**paulcools**  
212 species



**sindic**  
166 species



**stefanovet**  
149 species

#### Most Observed Species



**Red Admiral**  
2001 observations



**European Peacock**  
1293 observations



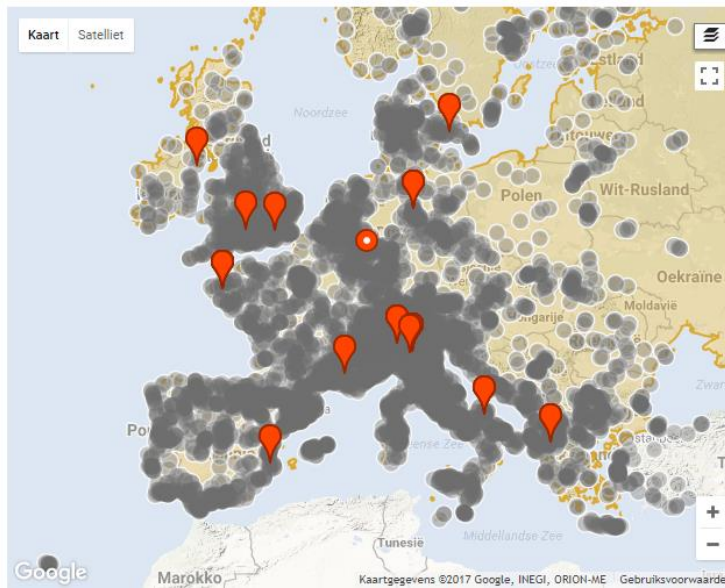
**Speckled Wood**  
1140 observations



**Meadow Brown**  
974 observations



**Common Blue**  
882 observations



#### » Members

87 members



[View all members »](#)

#### » Your membership

1003 observations

#### » Add from your observations

[Download template for use in the bulk uploader](#)

#### » Export observations

[Atom](#) / [KML](#) / [CSV](#)

#### » Usage stats

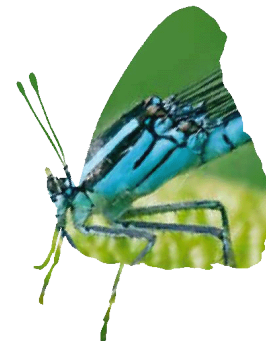
#### Project curator tools

[» Find suitable observations](#)

[» Find unsuitable observations](#)

[» Export with private coordinates](#)

[» Filter by curator identification](#)





# Help with identifying

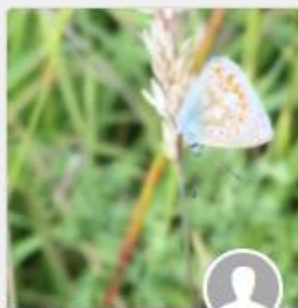
## Identify

 Butterflies  Europe  [Go](#)  Filters **2** ☐ Reviewed



Scarce Swallowtail  
(*Iphiclide podalirius*)

✓ Agree

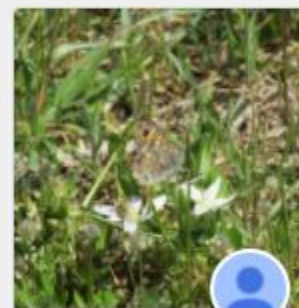


Common Blue  
(*Polyommatus icarus*)

✓ Agree

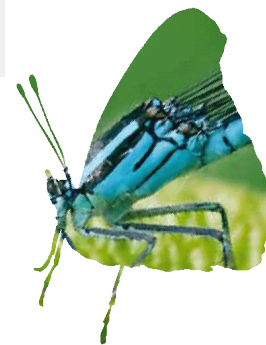


Duskywings  
(Genus *Erynnis*)



Wall Brown  
(*Lasiommata megera*)

✓ Agree



# Help with identifying

Scarce Swallowtail  
*Iphiclidides podalirius*

Needs id



☐ Captive / Cultivated

Info

Suggestions

Annotations

Data Quality



apeterlongo  
May 18, 2014 11:15 AM  
Province of Trento, Italy  
View Follow



apeterlongo suggested an ID

9m



Scarce Swallowtail  
*Iphiclidides podalirius*

Agree

☐ Reviewed

Agree






















Comment

Add ID



# Transparent

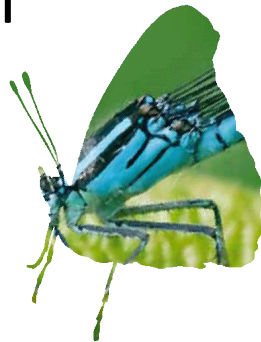
Research grade

Info	Suggestions	Annotations	Data Quality
Research Grade Qualification		Yes	No
 Date specified		✓	
 Location specified		✓	
 Has photos or sounds		✓	
 Has ID supported by two or more		✓	
 Date is accurate		✓ 	
 Location is accurate		✓ 	
 Organism is wild		✓ 	
 Evidence of organism		✓ 	
 Recent evidence of an organism		✓ 	
 Community ID at species level or lower		✓	
 Based on the evidence, can the Community ID still be confirmed or improved?			
<input type="checkbox"/> Yes			<input type="checkbox"/> No, it's as good as it can be

Inappropriate content? [Flag as inappropriate](#)

# iNaturalist

- Open source: data free for download, code for web and apps open access, Research grade data uploaded to gbif, anyone can join in
- Built around a community
- Everyone can join in and help with identifying photos
- We have a project running where national BCE partners can become Curators: welcome
- You can easily make a project for your country or region





# GBIF

[Get data](#) [Share](#) [Tools](#) [Inside GBIF](#)



GBIF | Global Biodiversity Information Facility

## Free and open access to biodiversity data

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Search



[WHAT IS GBIF?](#)

[ABOUT GBIF GERMANY](#)

*Auricularia* comes by Alex Fergus via NatureWatchNZ. Photo license

Occurrence records  
**874,501,603**

Datasets  
**37,346**

Publishing institutions  
**1,134**

**Species**

Learn more about the number of species covered by data in GBIF.org.



Call for nominations opens for 2018  
GBIF Young Researchers Award



The evolutionary history of an iconic  
multispecies mutualism



Job opportunity for Data Analyst at  
the GBIF Secretariat



Job opportunity: Data Administrator  
at the GBIF Secretariat

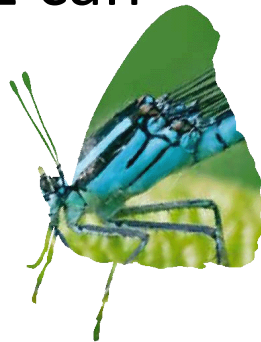
# GBIF

## Advantages

- Everything is open access
- For download: no formatting and taxonomy problems
- Immediate use in maps and analysis on all scales

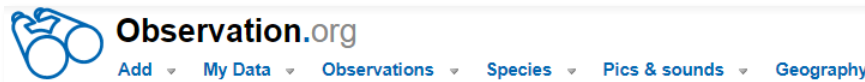
## Disadvantages

- Everything is open access
- No quality control, quality depends on source
- For upload: complicated procedure (but BCE can help)





# Data from four sources



## Recent Rarities

Butterflies Birds Mammals Reptiles and Amphibians <select>

Generated: Sat 04 Nov 2017 08:07:41 CET next refresh: 08:37:41

Date	#	Species	Area
30-10-2017 16:50	1	African Grass Blue - <i>Zizeeria knysna</i>	Spain - Ciudad de Cordoba [ES]
29-10-2017 17:10	3	African Grass Blue - <i>Zizeeria knysna</i>	Spain
26-10-2017	1	Mediterranean Skipper - <i>Gegenes nostradamus</i>	Spain - Tolox [ES]
25-10-2017 14:00	1	Spotted Fritillary - <i>Melitaea didyma</i>	Switzerland - Jurapark Aargau [CH]

## Butterflies of Europe

### Stats

#### Totals

31357  
Observations »

458  
Species »

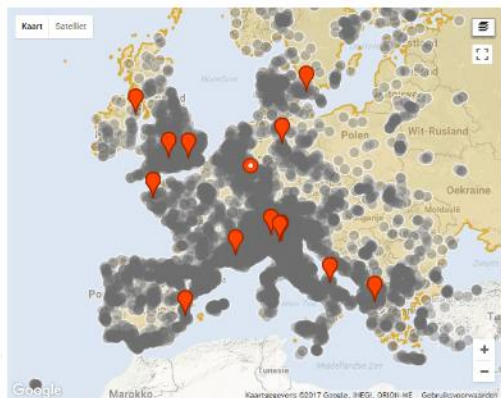
1906  
People »

#### Most Observations

	mortendhansen	2756 observations
	sindic	1200 observations
	christsvavay	1003 observations
	fdejuana	990 observations
	speedy	904 observations

#### Most Species

	arnold-vijler	262 species
	christsvavay	215 species
	paulcools	212 species
	sindic	166 species
	stefanovet	149 species



Sharing biodiversity data for re-use

Learn about GBIF  
Publish your data through GBIF  
Technical infrastructure

Providing evidence for research and decisions

Using data through GBIF  
Enabling biodiversity science  
Supporting global targets

Collaborating as a global community

Current Participants  
How GBIF is funded  
Enhancing capacity

Search news items and information pages...

Search

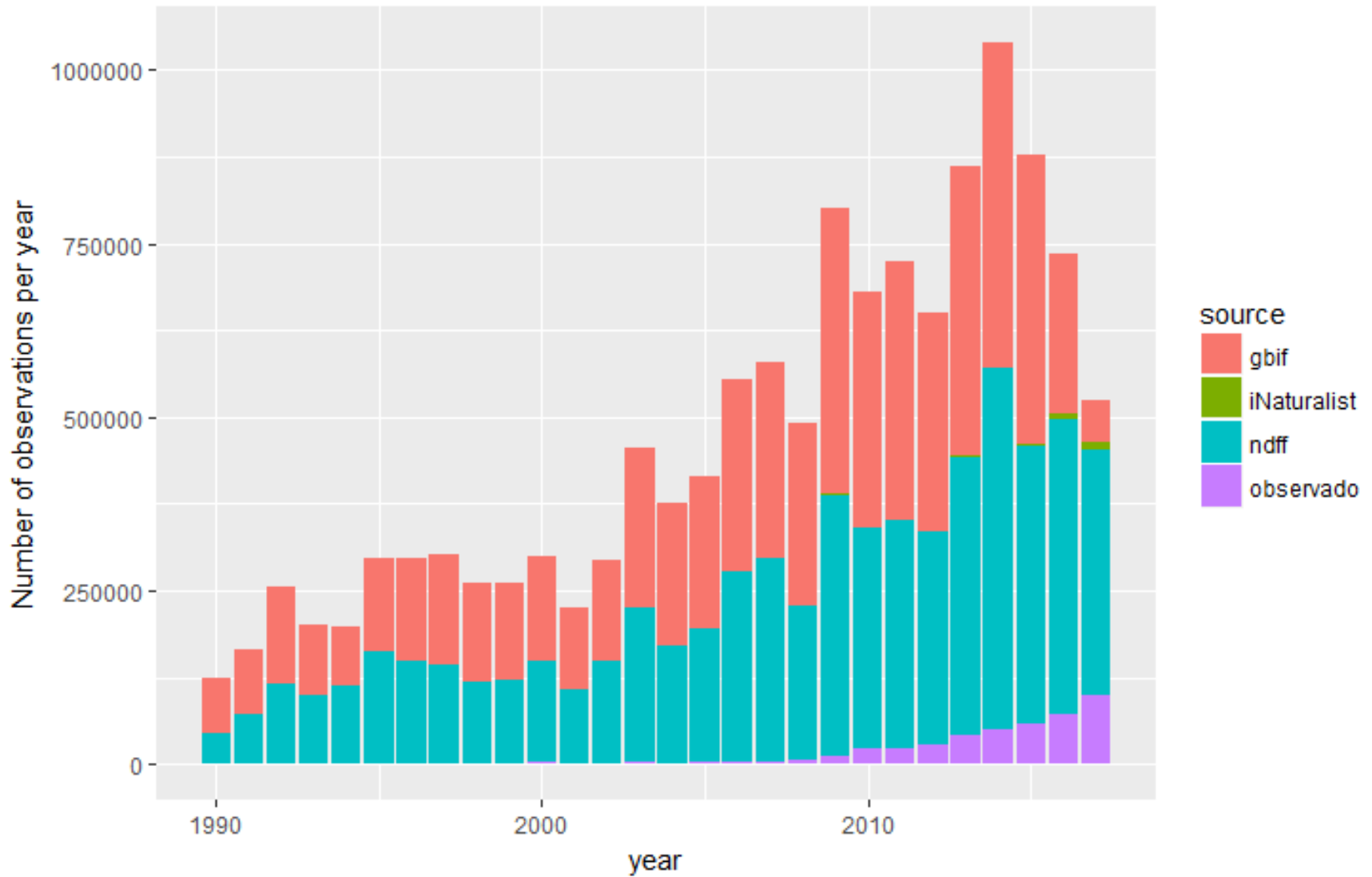
NATIONALE DATABANK  
FLORA EN FAUNA



DE MEEST COMPLETE DATABANK VAN  
NEDERLAND.

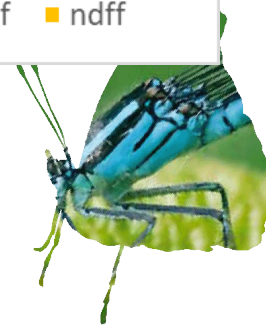
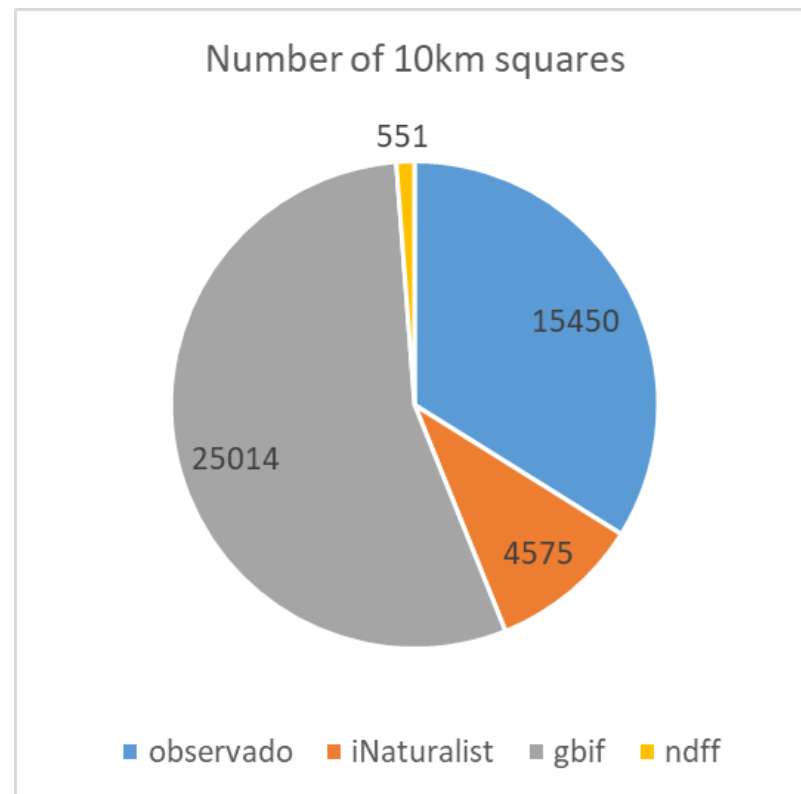
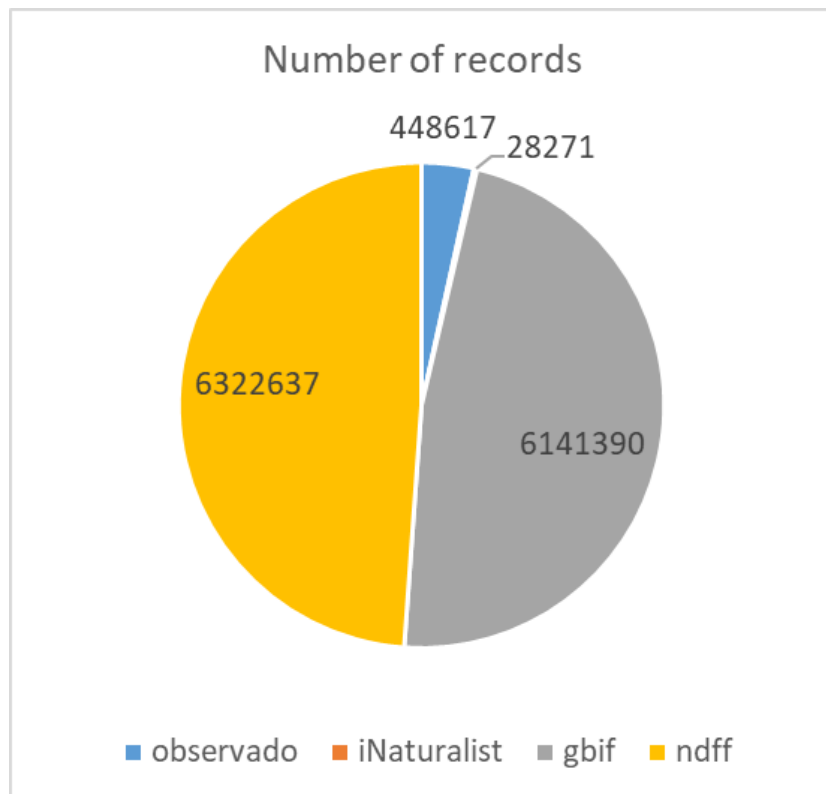


# Number of butterfly observations

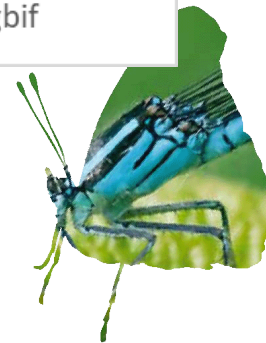
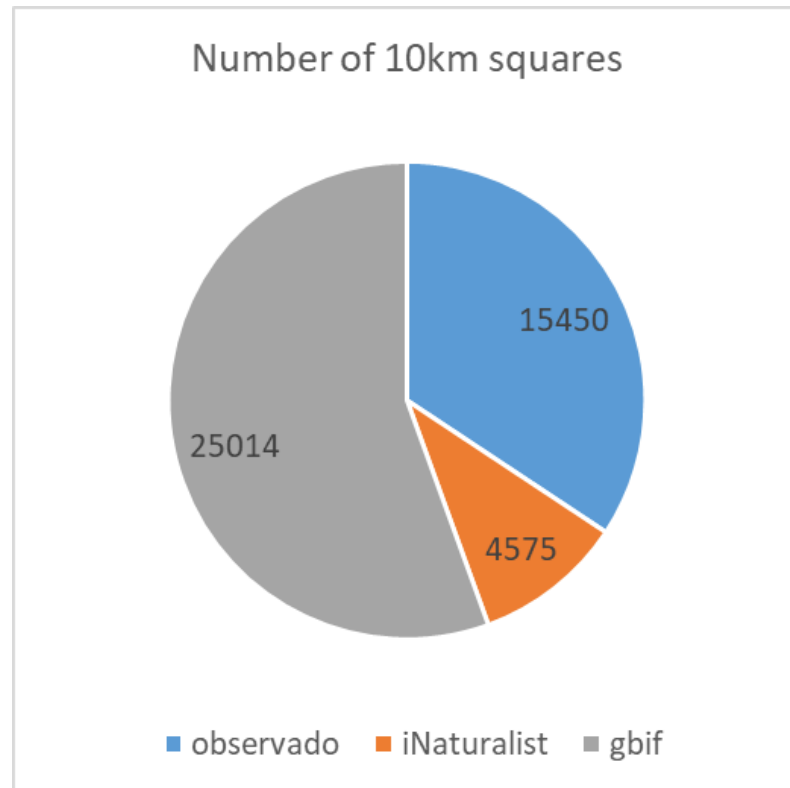
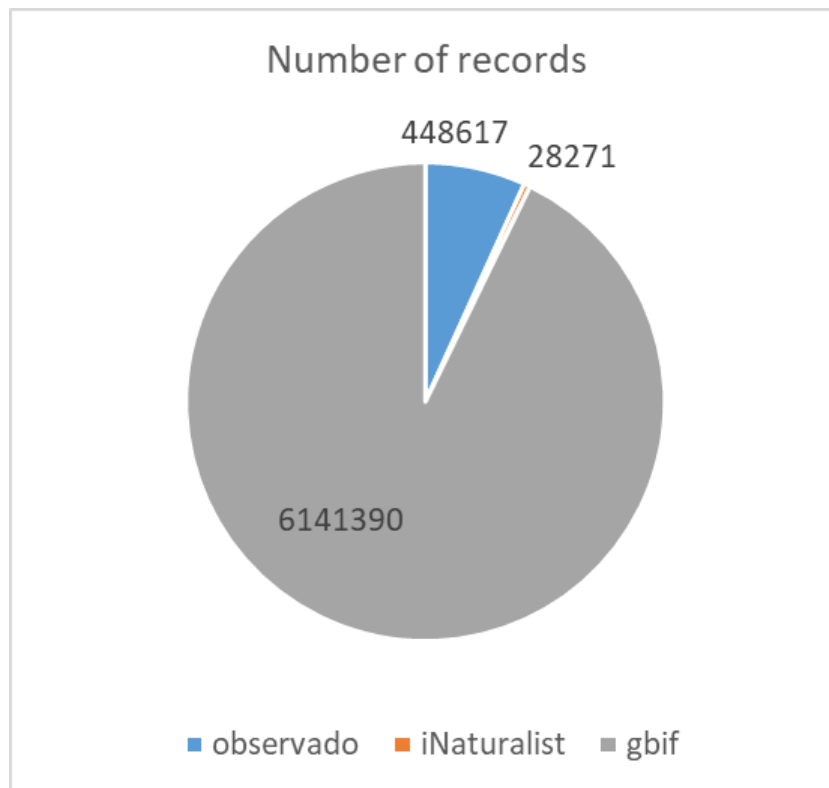




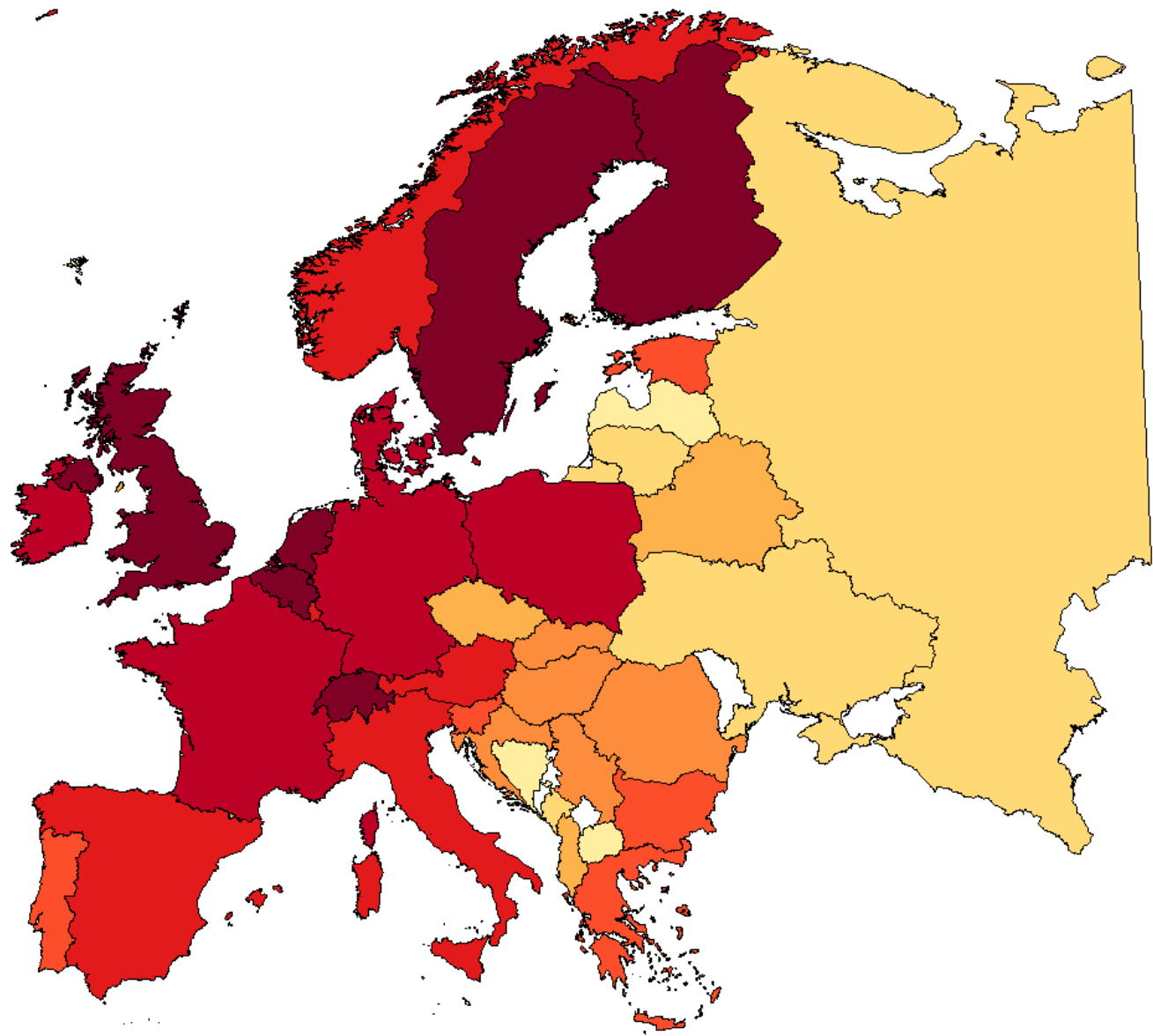
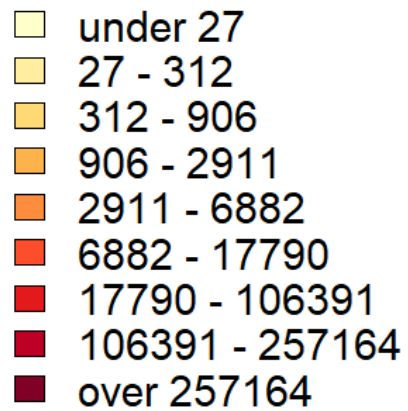
# Number of records/10km squares



# Number of records/10km squares

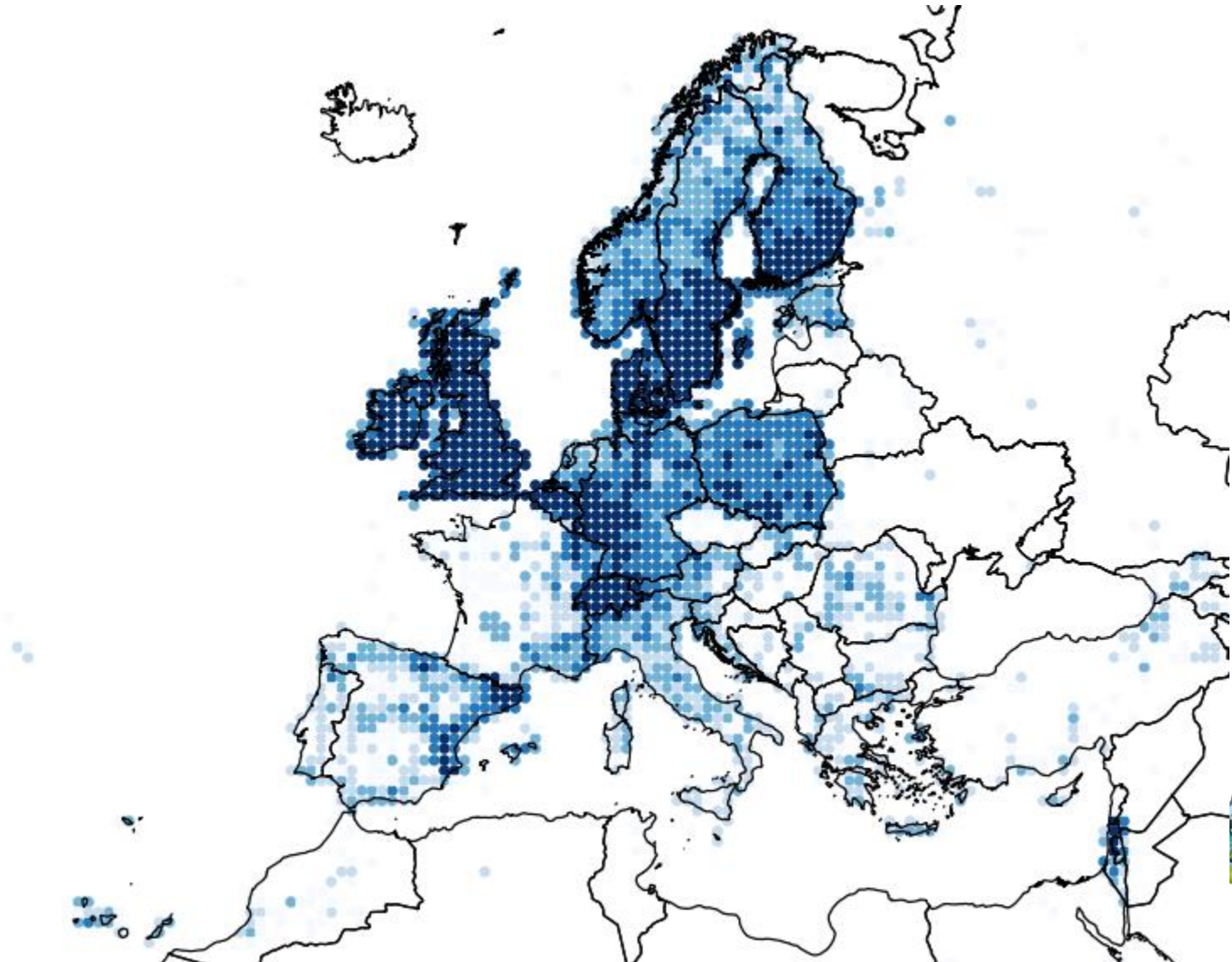


## Number of records per country



# Number of records per 50km

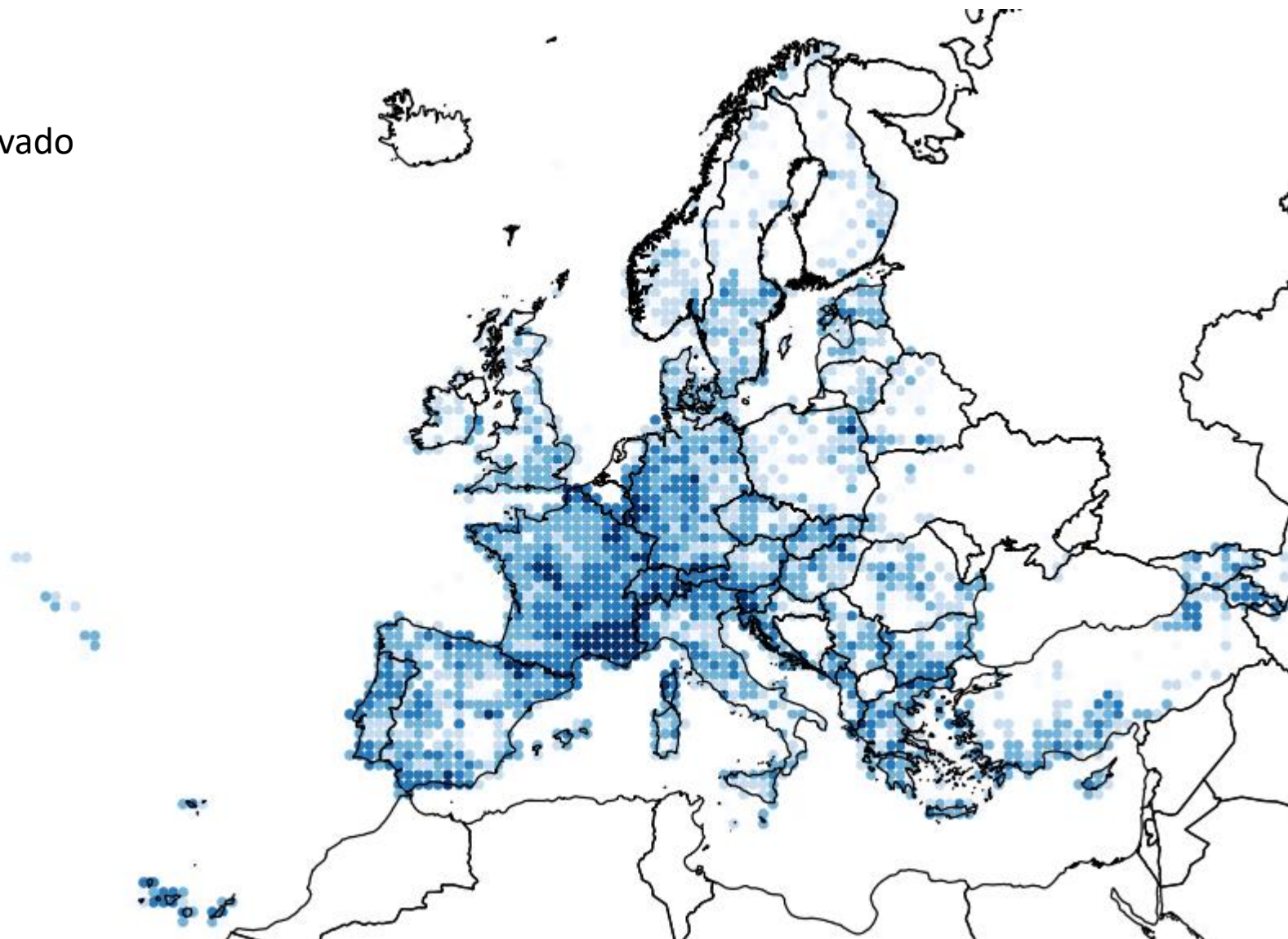
GBIF





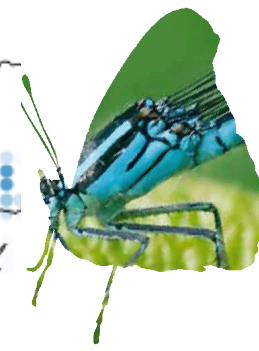
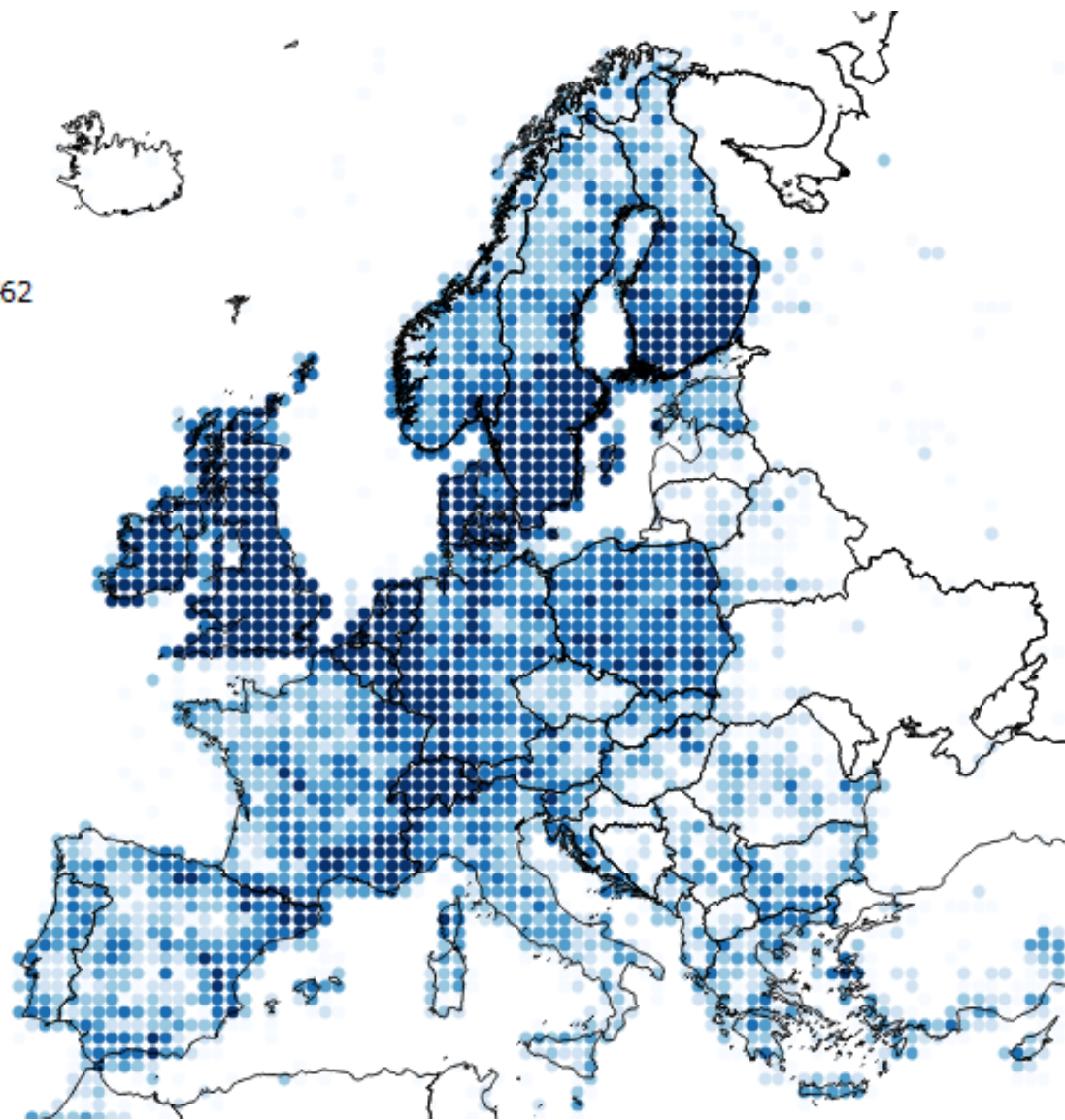
# Number of records per 50km

Observado

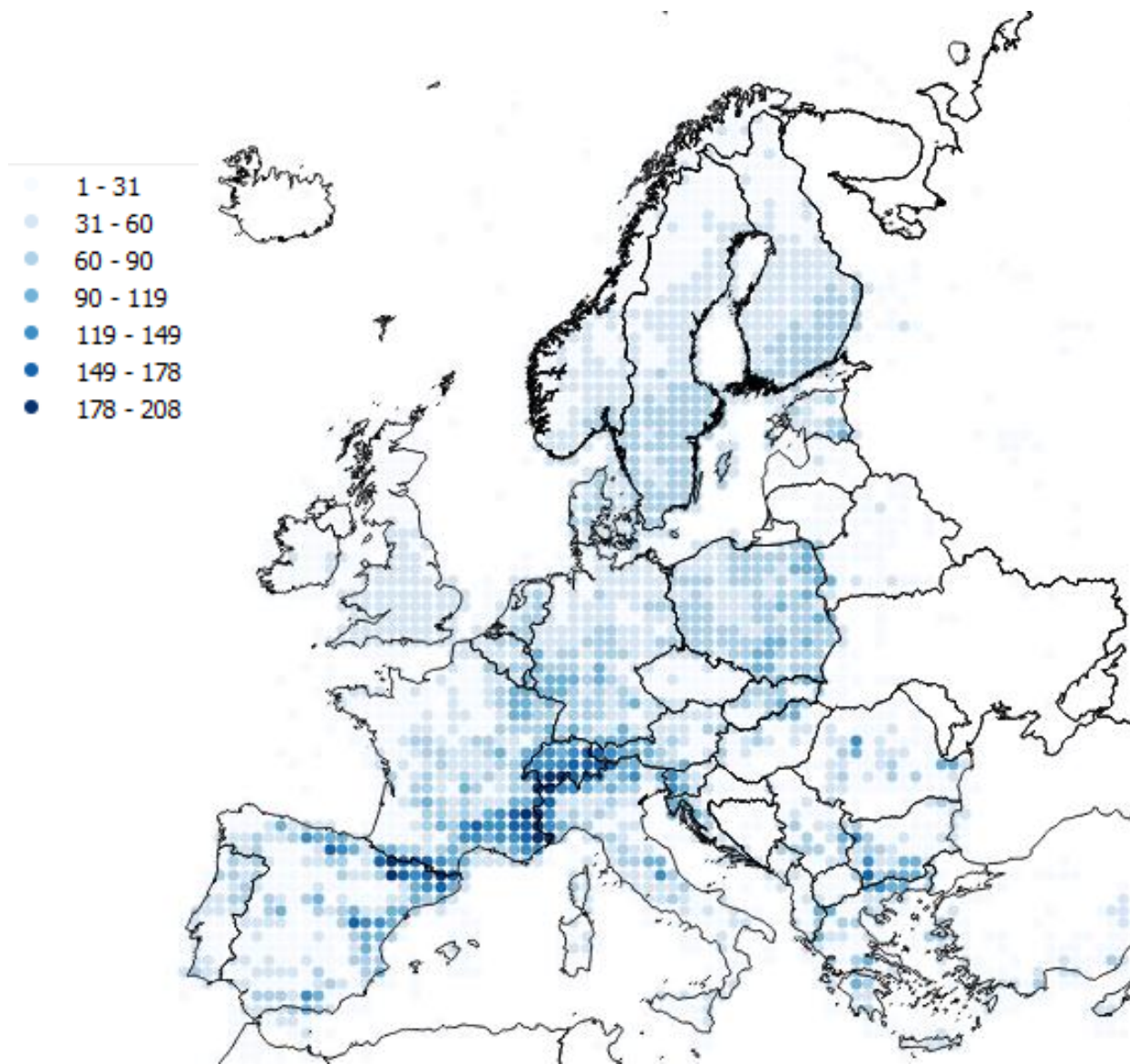


# Number of records per 50km

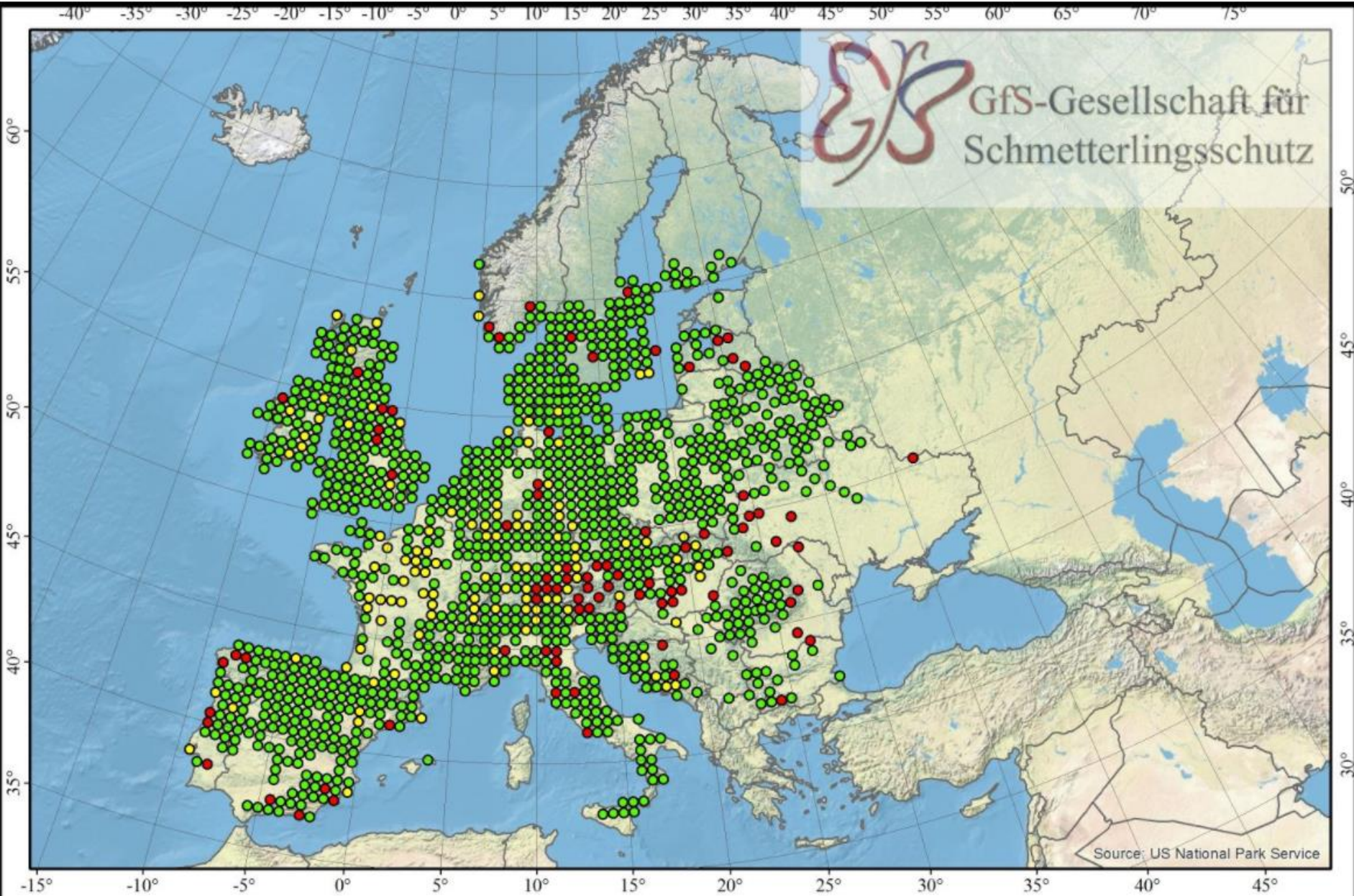
- 1 - 6
- 6 - 29
- 29 - 98
- 98 - 310
- 310 - 1474
- 1474 - 536462



# Number of species per 50km





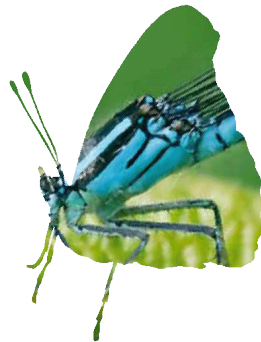
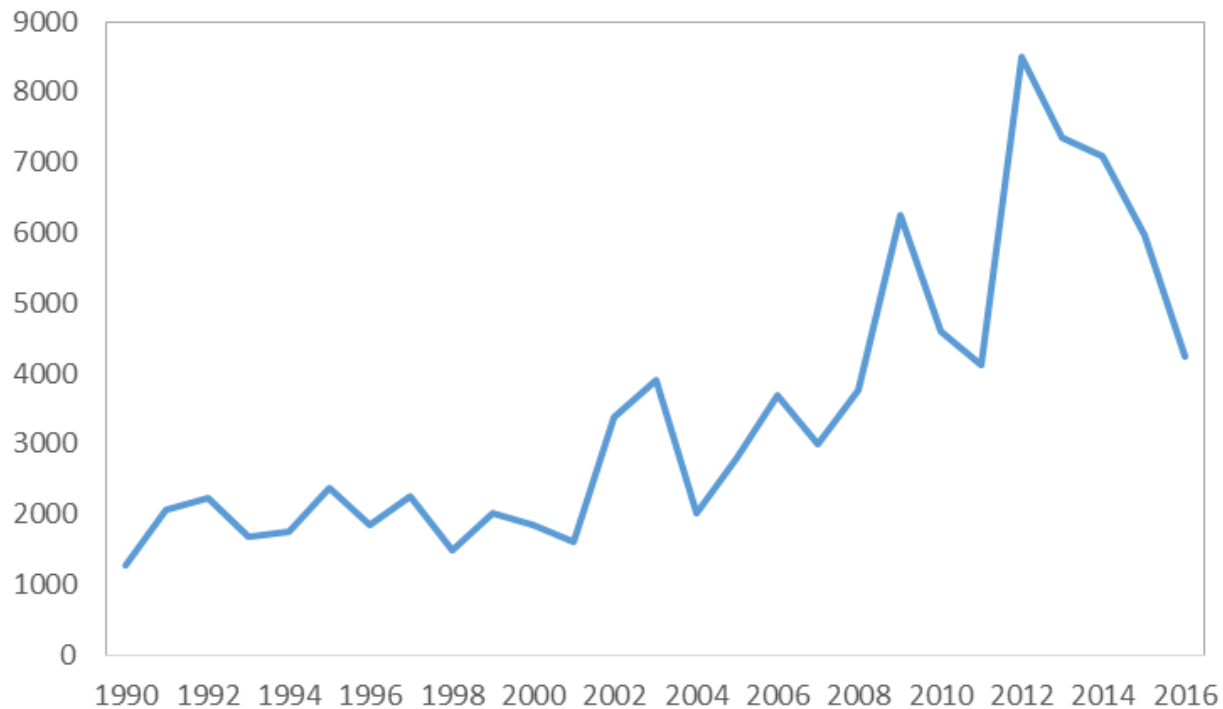


# *Hipparchia semele*



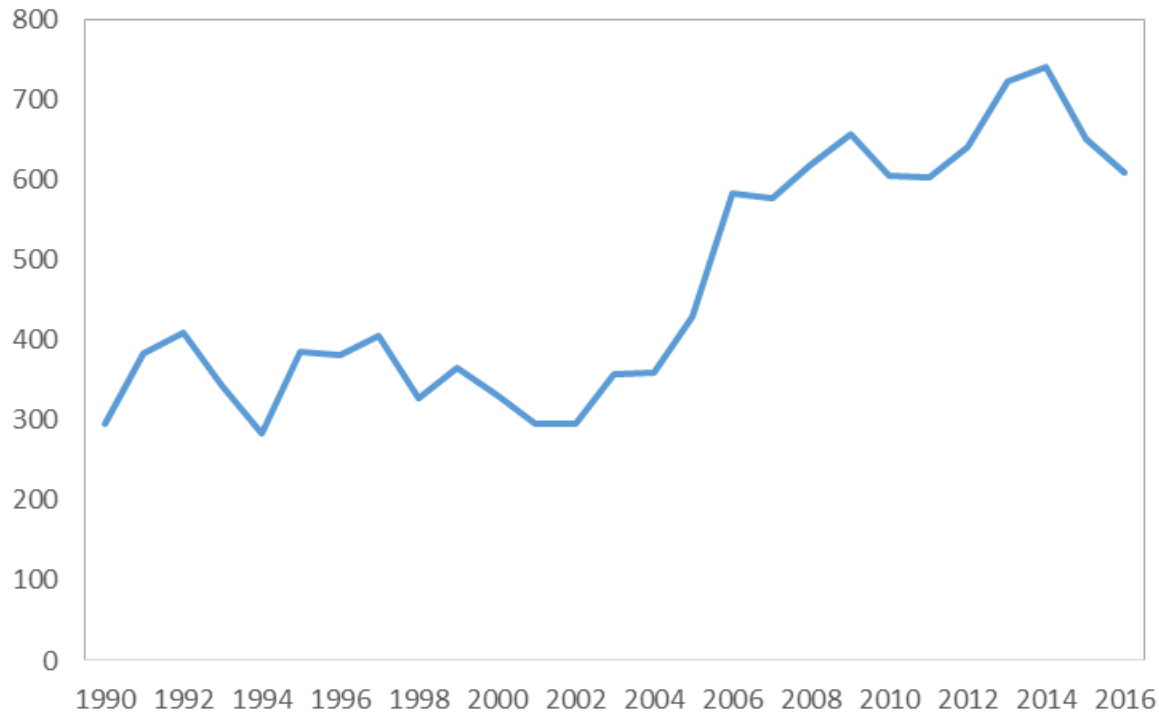
# *Hipparchia semele*

Number of records per year

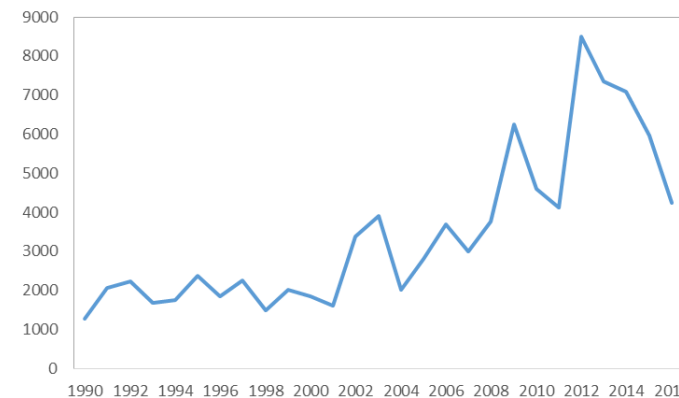


# *Hipparchia semele*

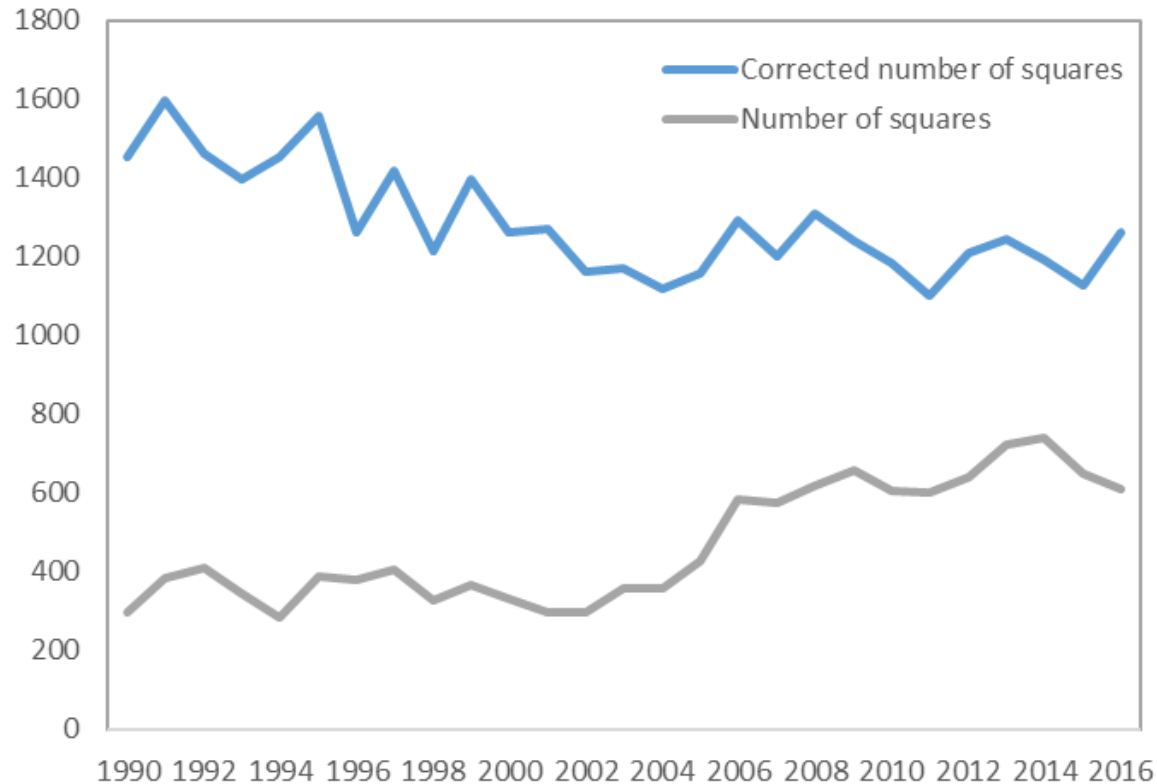
Number of 10km squares



Number of records per year



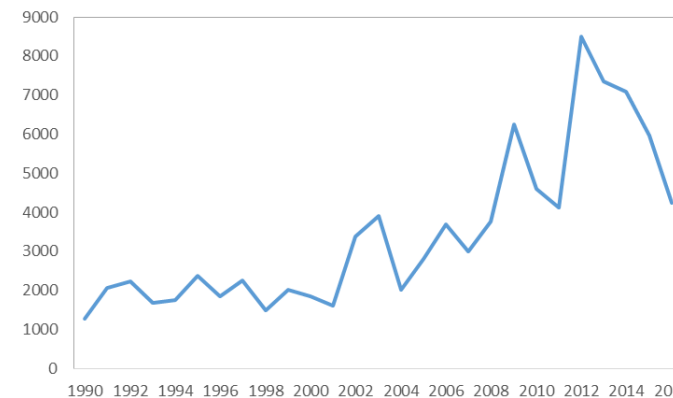
# *Hipparchia semele*



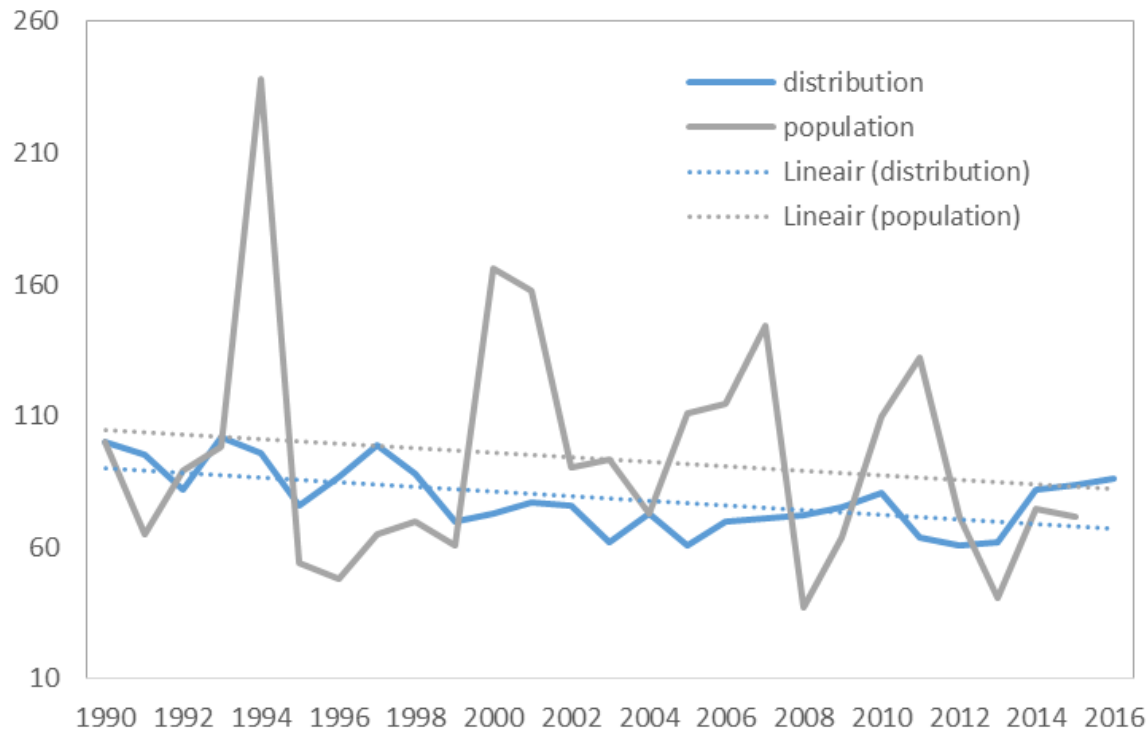
Trend = 0.98

Decline in 10km squares over 26 years: -29%

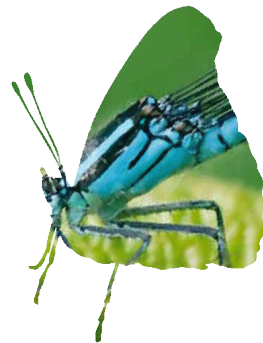
Number of records per year



# *Euphydryas aurinia*



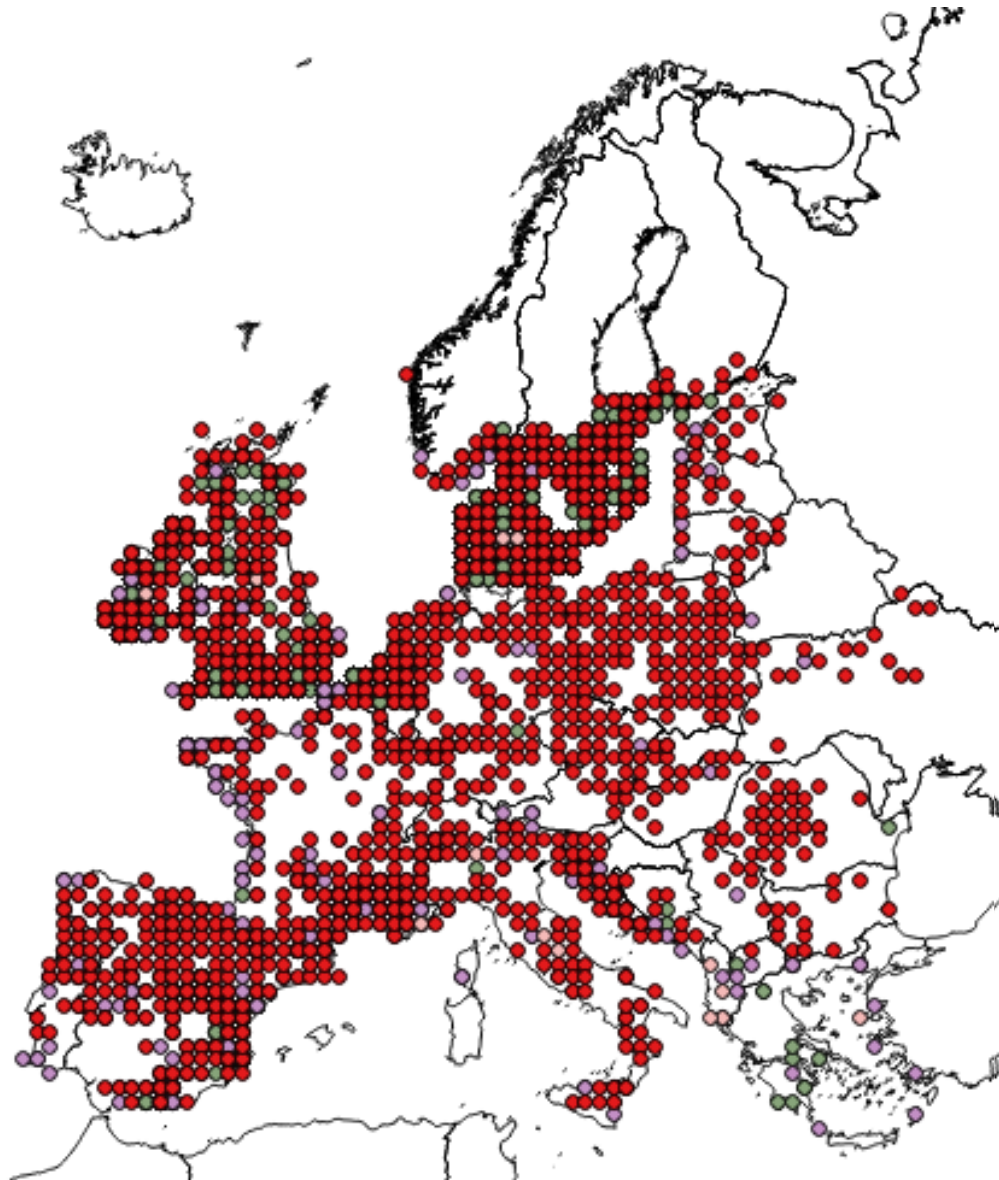
Distribution trend: 0.991  
Population trend: 0.992






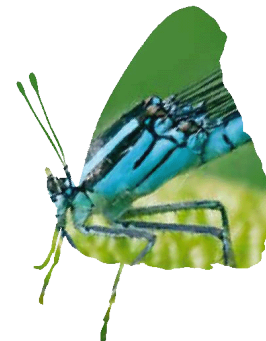


# *Hipparchia semele*

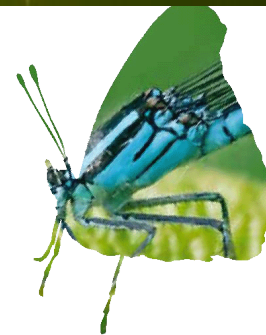
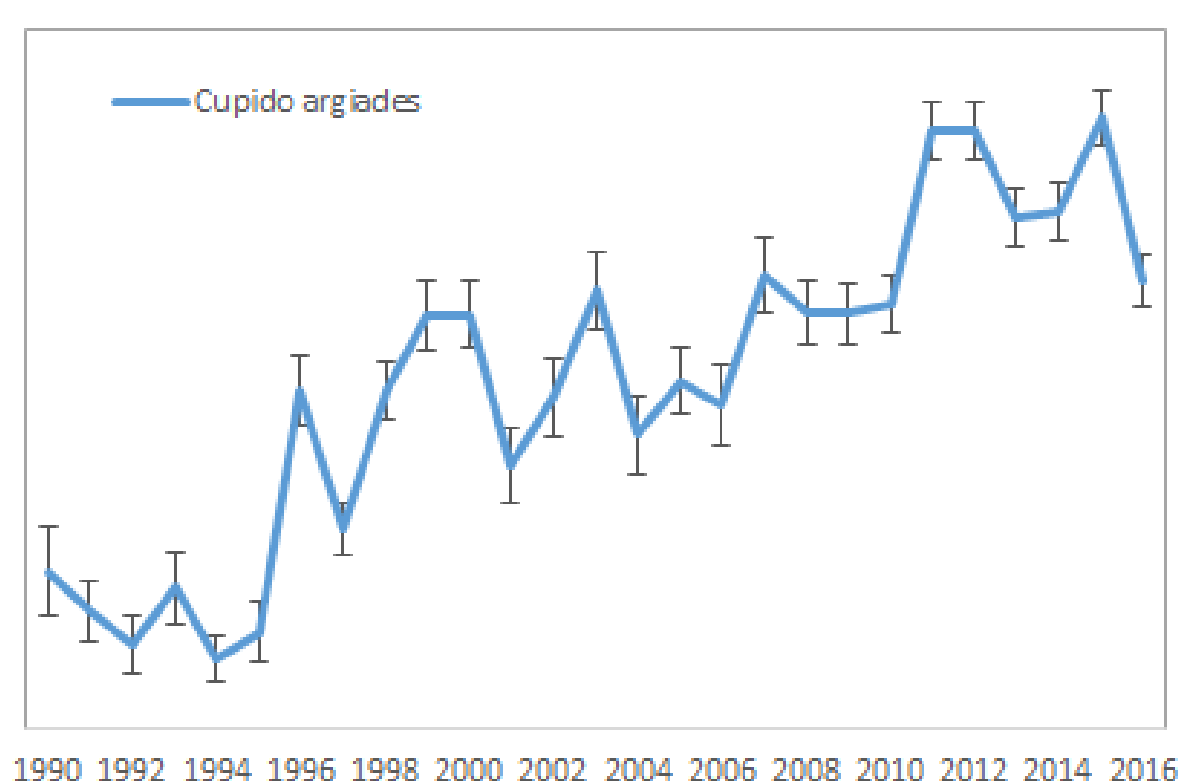
Gbif  
+ observado  
+ iNaturalist  
+ Lepidiv



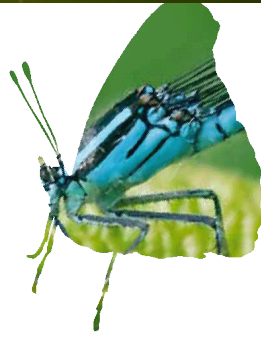
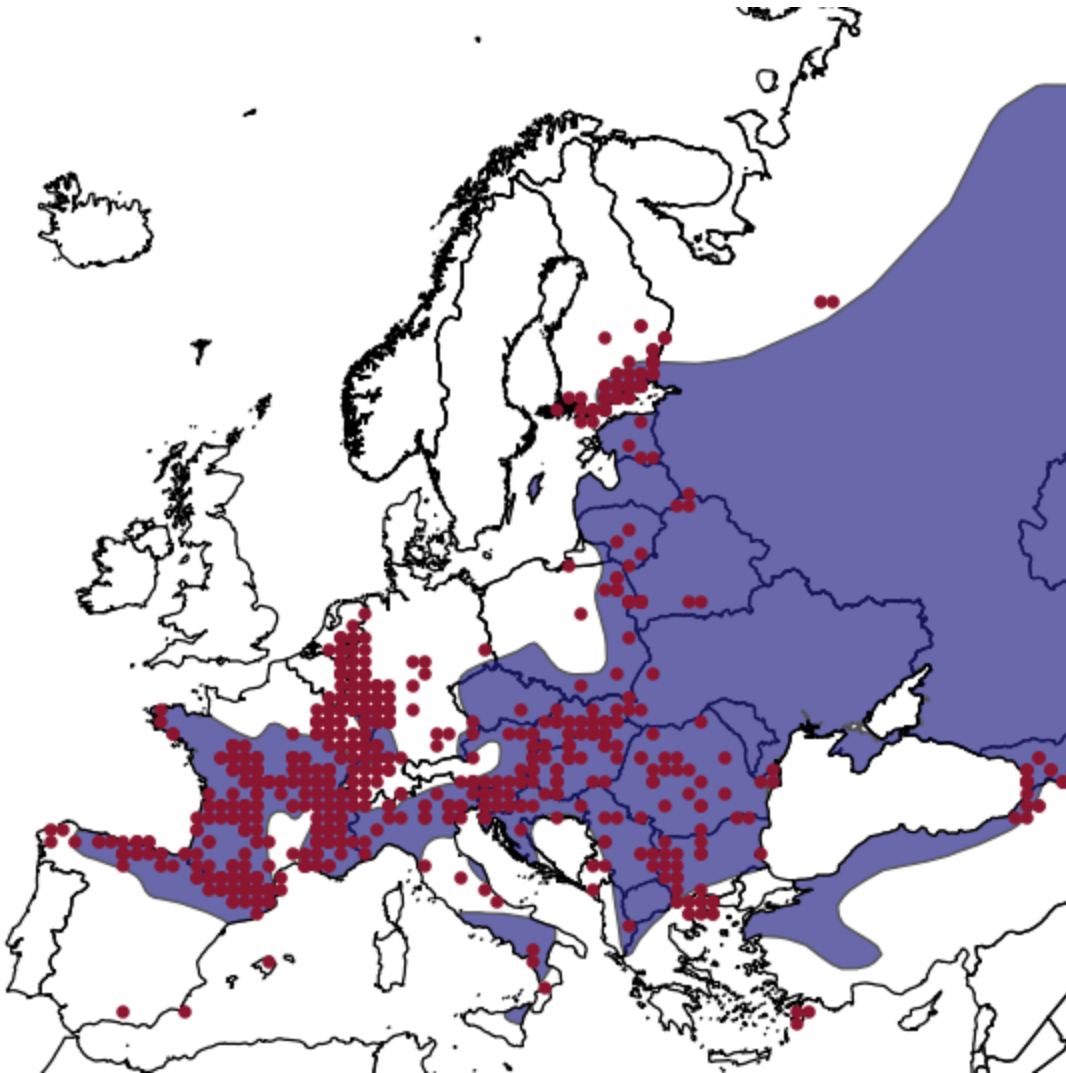
-  Hippseme inat\_etr
-  Hippseme\_obs\_etr
-  Hippseme\_gbif\_etr



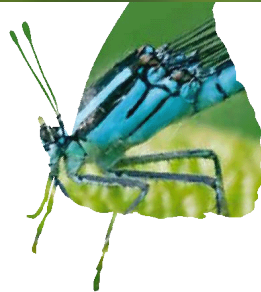
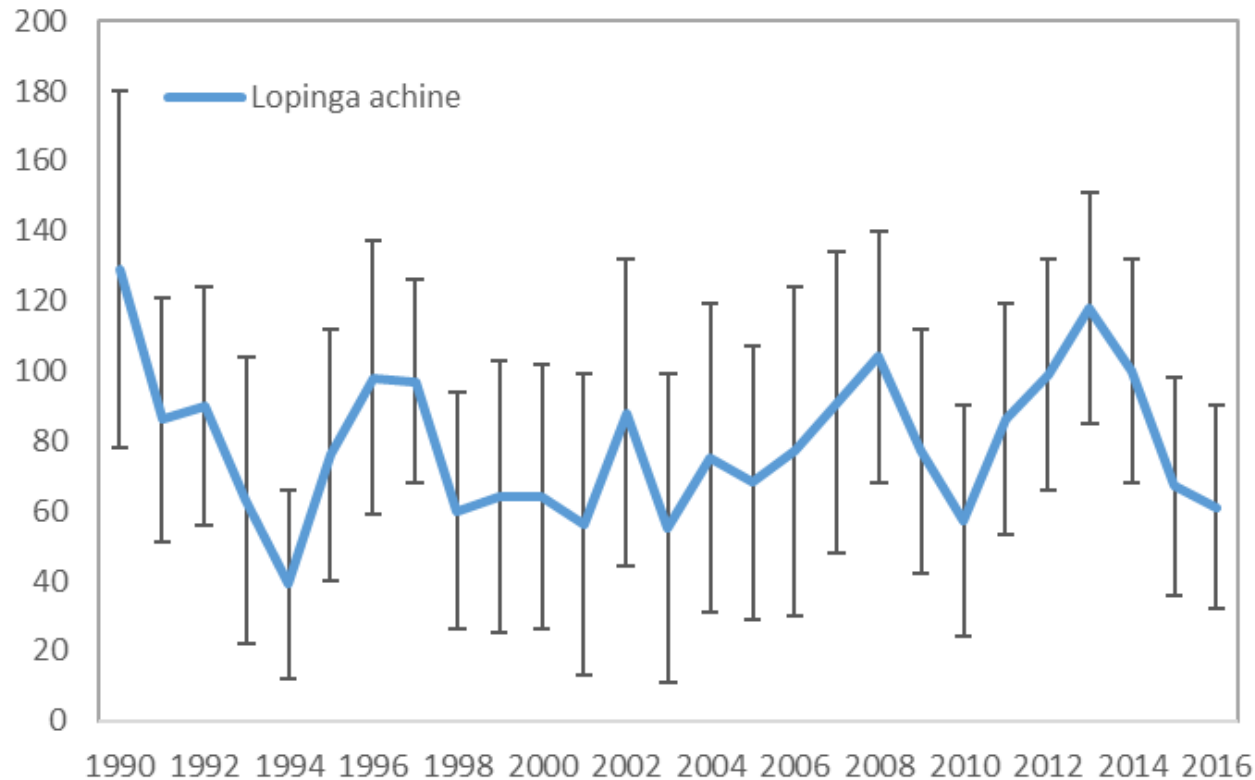
# *Cupido argiades*



# *Cupido argiades*



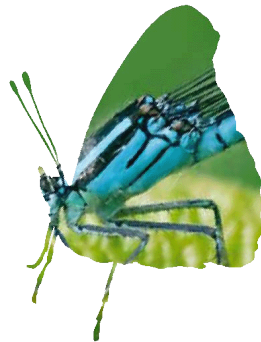
# *Lopinga achine*





# Distribution data

- Now already possible with the data from GBIF, observado, ndff and iNaturalist
- Great addition (but no replacement!) for population trends (as coming from monitoring by transects)
- Especially complete day-lists helpful
- So stimulate at least the recording of all species
- Even better: on all localities
- And your data?



# Distribution trends

- Join in
- You want to build an online community: observado or iNaturalist
- You want your data to be used by the scientific and conservation community: upload to GBIF
- Share at least holiday records, so they become available to other BCE partners
- BCE can help: send data to [info@bc-europe.eu](mailto:info@bc-europe.eu)
- LepiDiv: can download from GBIF, but you can also send it directly to LepiDiv





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