



BetterB
beeplants.eu


Better-B
FOR RESILIENT BEEKEEPING

"Better-B public event - 14 Nov 2024 - Wageningen, NL “; beeplants.eu

J van der Steen

Alveus AB Consultancy

Alveusab@outlook.com

0031(0)682851745



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- Food source sharing
- **Multiple recordings** of the **same** flowering bee-plant and **same location** of
 - 1)flowering period: recordings from begin flowering till end flowering
 - 2)counting of pollinating insects foraging on that plant at each recording; **one glance counting**.
 - 3) Location and time are recorded by default
- **Objective:** Citizen Science (CS) study on foraging patterns of pollinating insects during the course of the day and different wheather conditions of the same plant - same location.
- **Result CS beekeeper:** by default building your own beeplant catalogue and contribution to and involvement in bee-science



Hoover fly: *Eristalis pertinax*
Hoover fly *Eristalis nemorum*
Bumblebee *Bombus pascuorum*



Hover fly: *Eristalis pertinax*



Honey bee *Apis mellifera*



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Citizen science

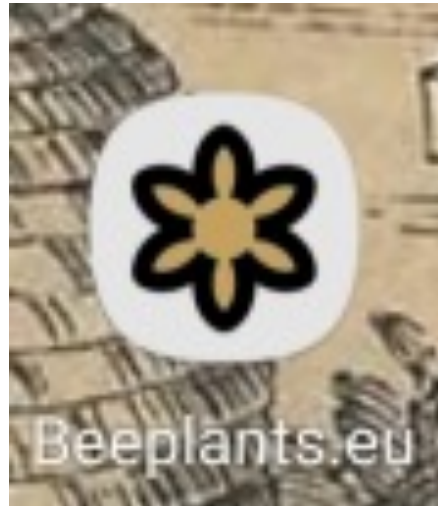
250 citizen scientist from

- Finland
- Latvia
- Denmark
- Norway
- Netherlands
- Belgium
- France
- Switzerland

2024

7000 Observations

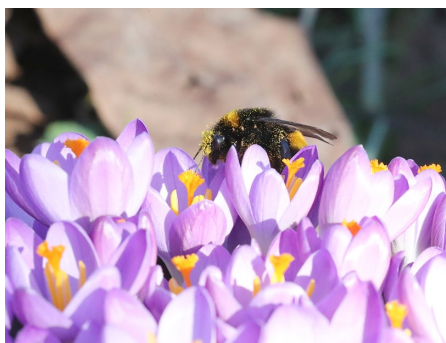
Regulars AskMeAnything
(AMA) meetings




Harmonie en evenwicht tussen honingbijvolken en hun omgeving bieden een solide basis voor een veerkrachtige bijenhoudery. Een aspect dat Better-B onderzoekt is de beschikbaarheid van bloemen (stufmeel en nectar) voor bijen en andere bestuivers. We verzamelen gegevens over bloeiende planten en het bezoeken van insecten als onderdeel van de Better-B studie naar het delen van voedsel, uitgevoerd in samenwerking met de Deense Bijenhoudersvereniging. Dit is een burgerwetenschap studie waarbij waarnemingen worden doorgegeven via het web portaal Beeplants.eu.



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Catalogue of Plants



Browse the collection of important plants for honey bees.

Plants By Blooming St


Plants Alphabetica

20:50 59%

* Christmasrose

Helleborus spp.

X



Location
51.5791,5.1859

Blooming Status

☐ Early ...

☐ Bloom...

☐ Late B...


Insect Status

☒ No Insects


☐ Don't Report Insects



Honeybees



Wild Bees



Bumblebees



Hoverflies



Other Insects

X Cancel

✓ Send Report

Reporting spot

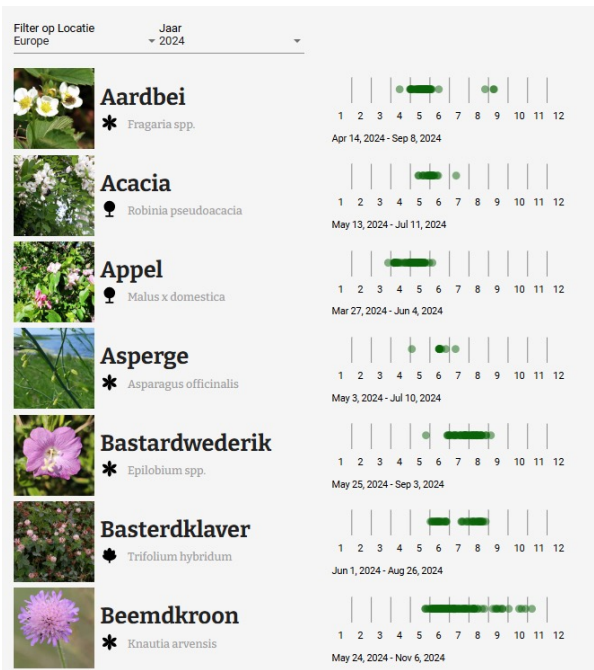
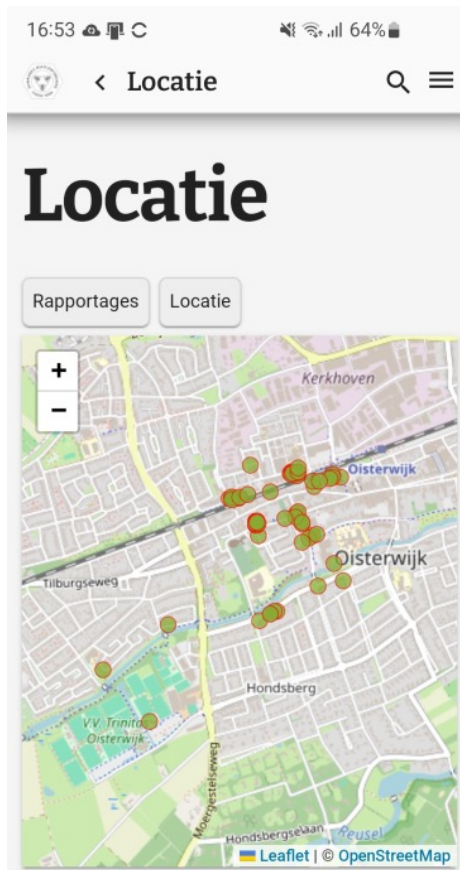
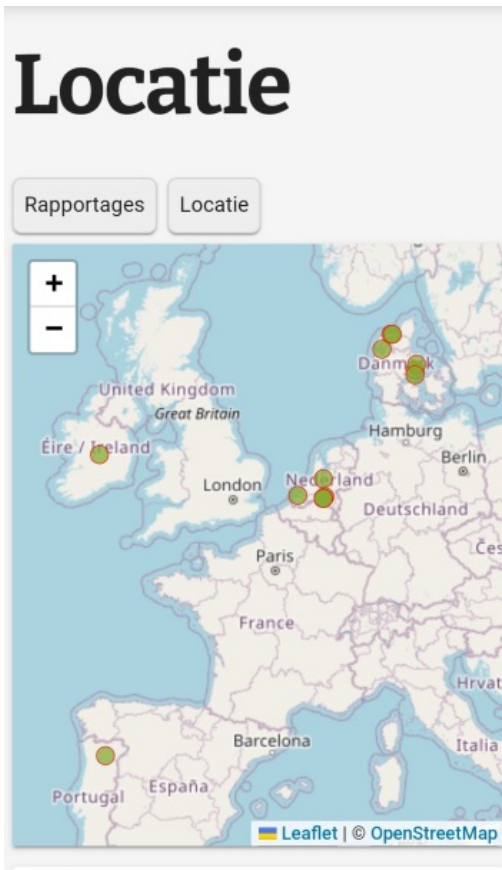







Data about blooming period and visiting insects as a function of

- 1.Location;
- 2.Date;
- 3.Observation period;
- 4.Time of the day;
- 5.Impact weather conditions;
- 6.Impact land-use (in combination with land-use data).

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- Citizen science data: J. van der Steen

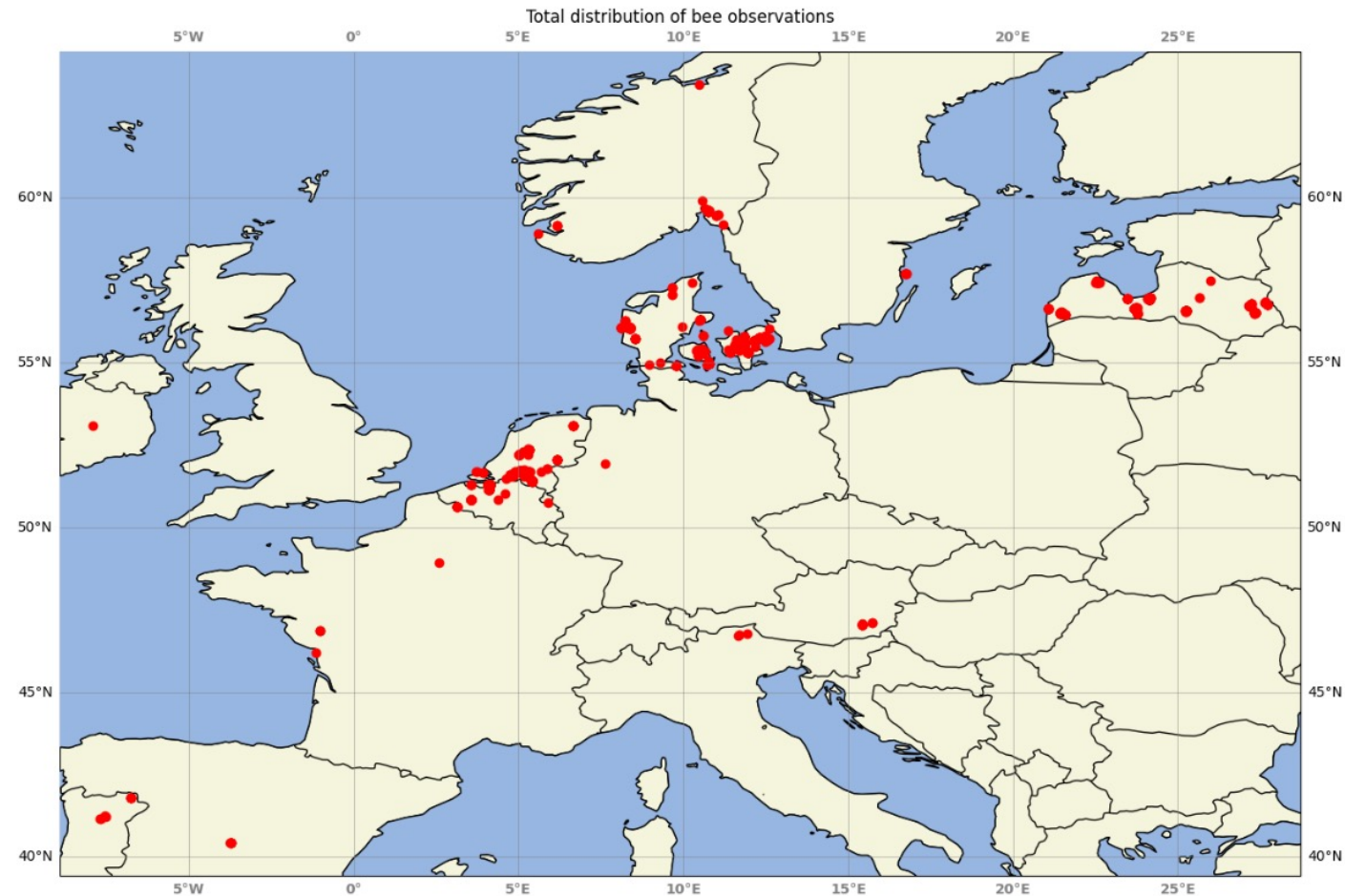


	Sommerfuglebusk Sep 3, 2024, 2:57:21 PM 51.5792,5.1859 Late Bloei Andere Insecten: 7
	Sommerfuglebusk Sep 23, 2024, 11:51:13 AM 51.5802,5.1847 Late Bloei Hommel: 2 Zweefvlieg: 1 Andere Insecten: 4
	Merian, Alm. Aug 29, 2024, 5:08:28 PM 51.5792,5.1857 Late Bloei Honingbij: 1
	Merian, Alm. Jul 25, 2024, 11:14:28 AM 51.5791,5.1857 Bloeiend Honingbij: 1 Solitaire bijen: 1 Zweefvlieg: 1
	Merian, Alm. Jul 31, 2024, 11:05:53 AM 51.5791,5.1858 Late Bloei Honingbij: 1



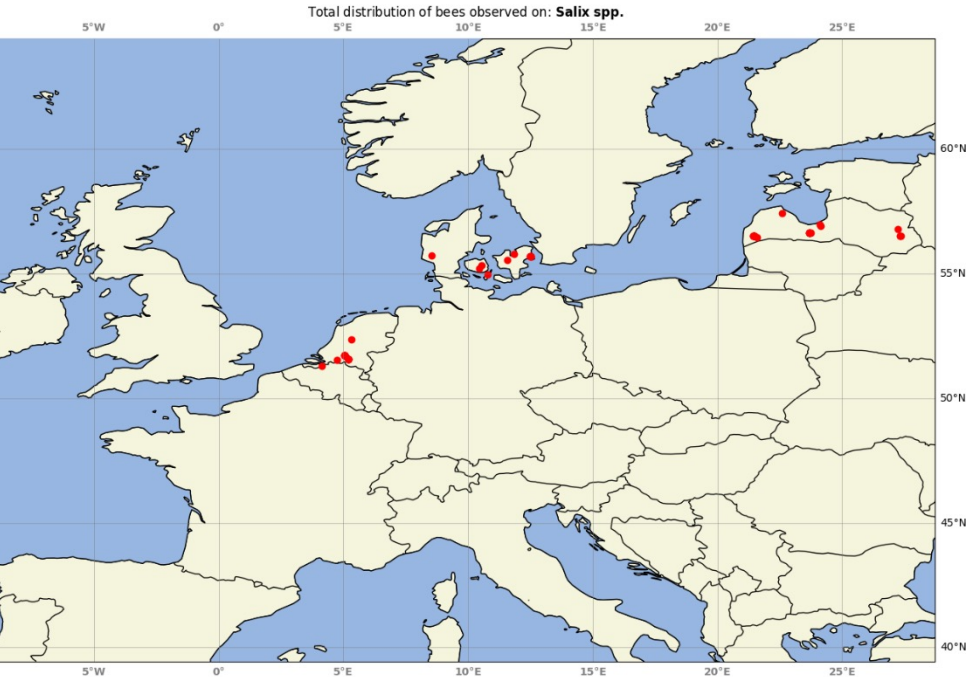
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First results 2024



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First results 2024:

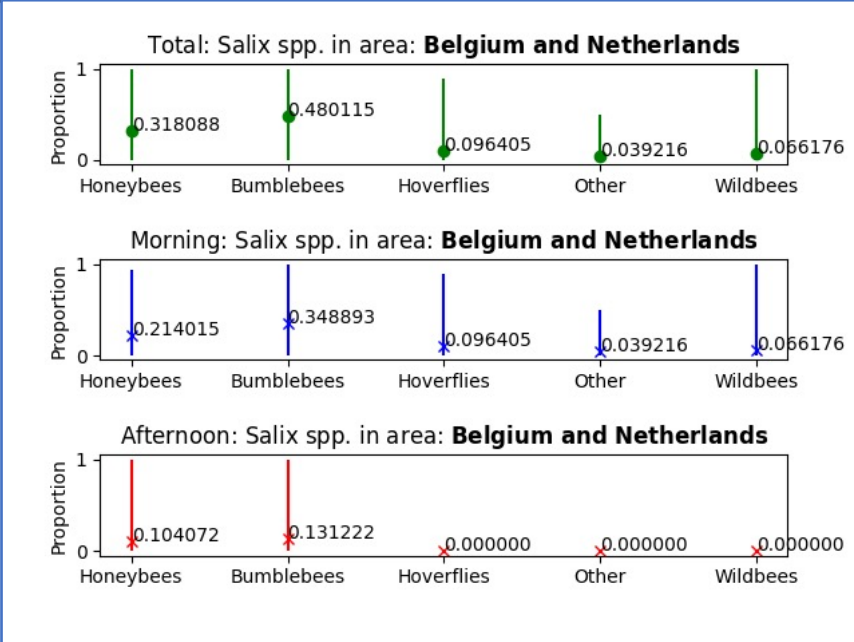
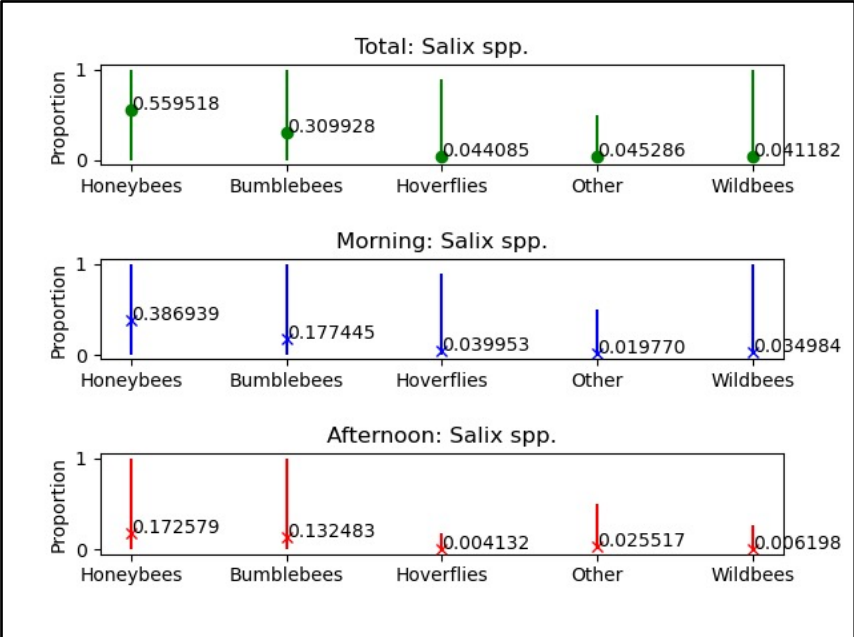


Salix spp



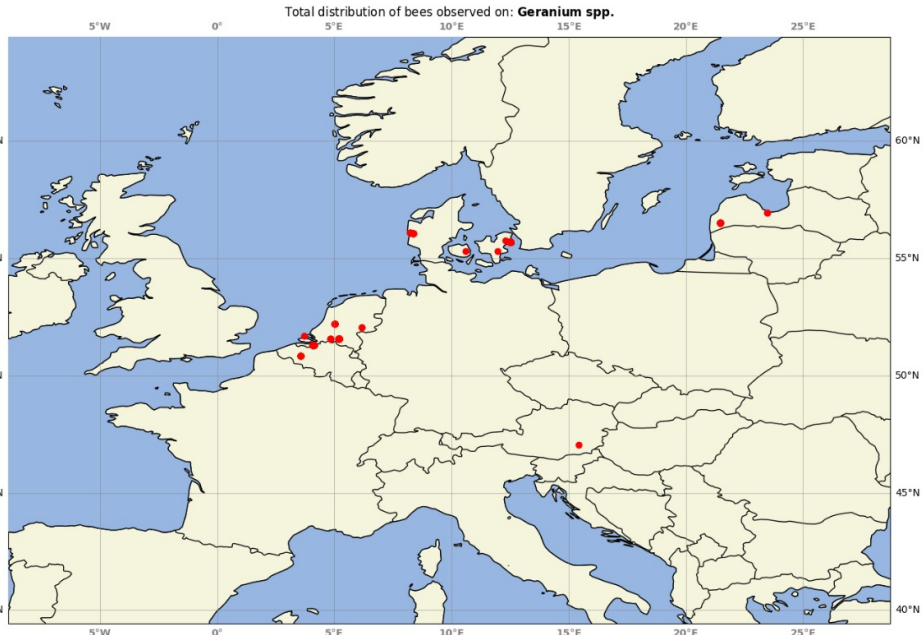
Salix Netherlands and Belgium

Honey bee	
Bumblebee	
Hoverfly	
Solitary bee	
Period	April 2024 May 2024 June 2024 July 2024 August 2024



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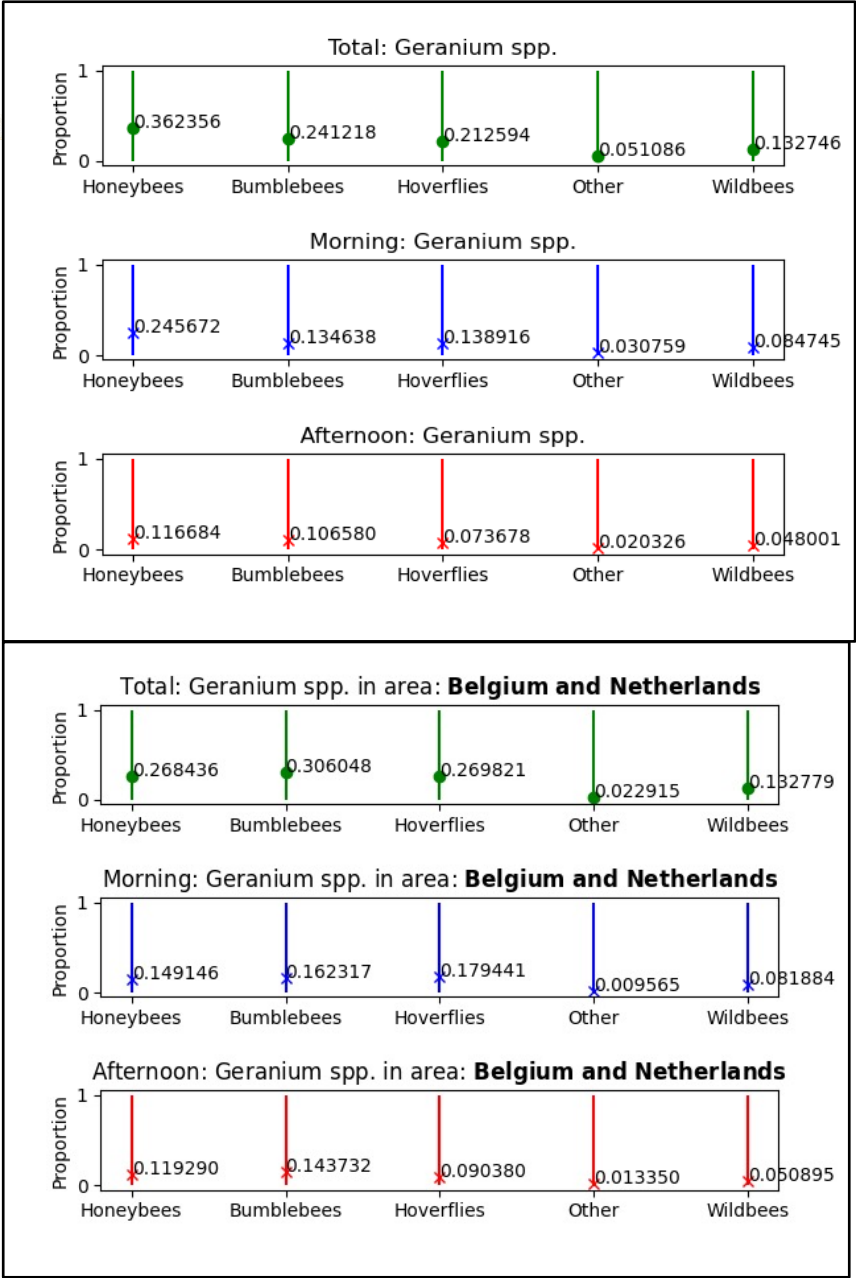
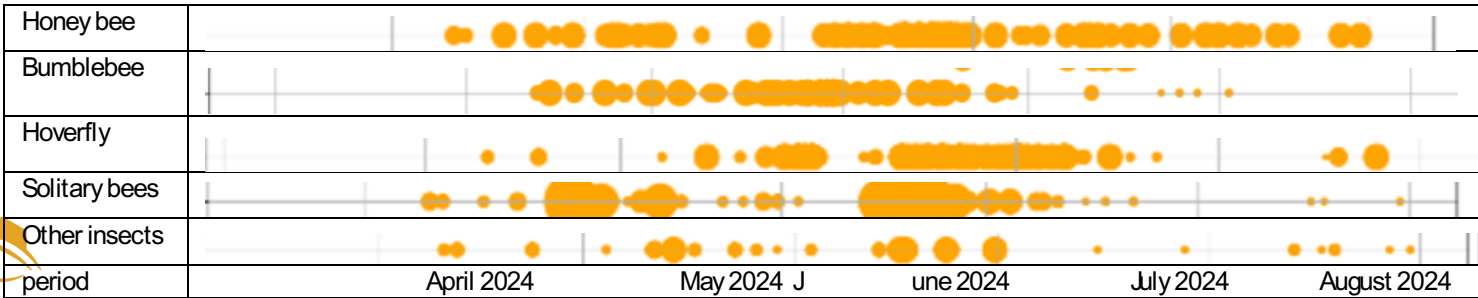
First results 2024:



Geranium spp

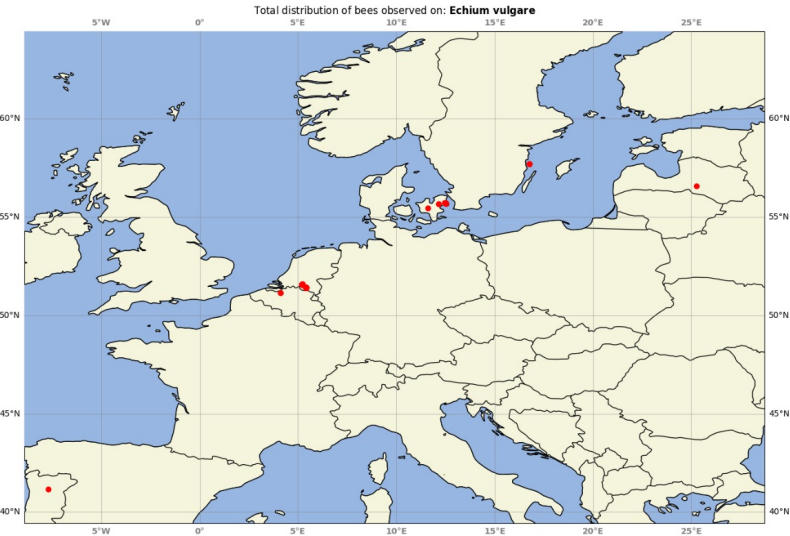


Geranium spp: Netherlands and Belgium



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First results 2024

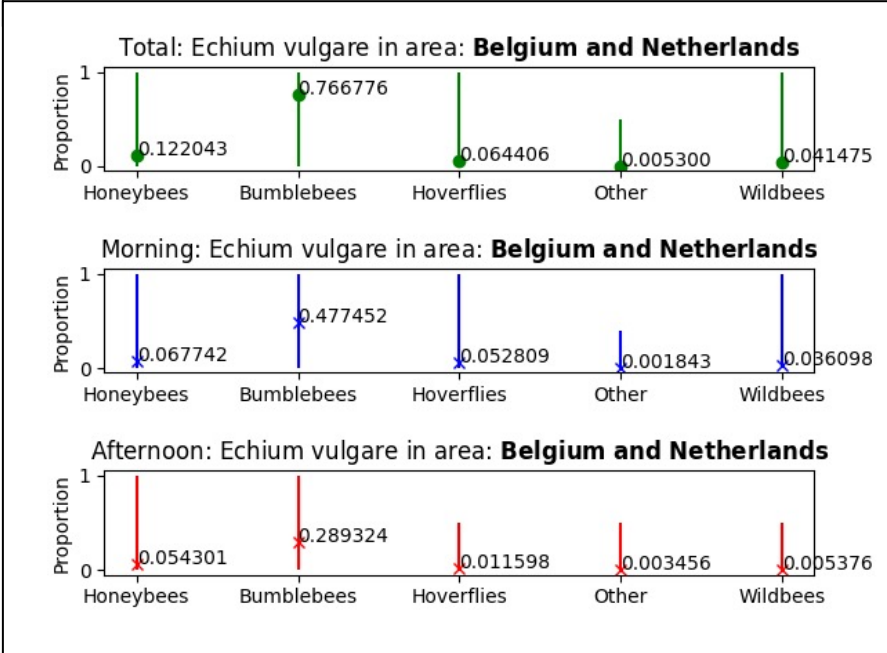
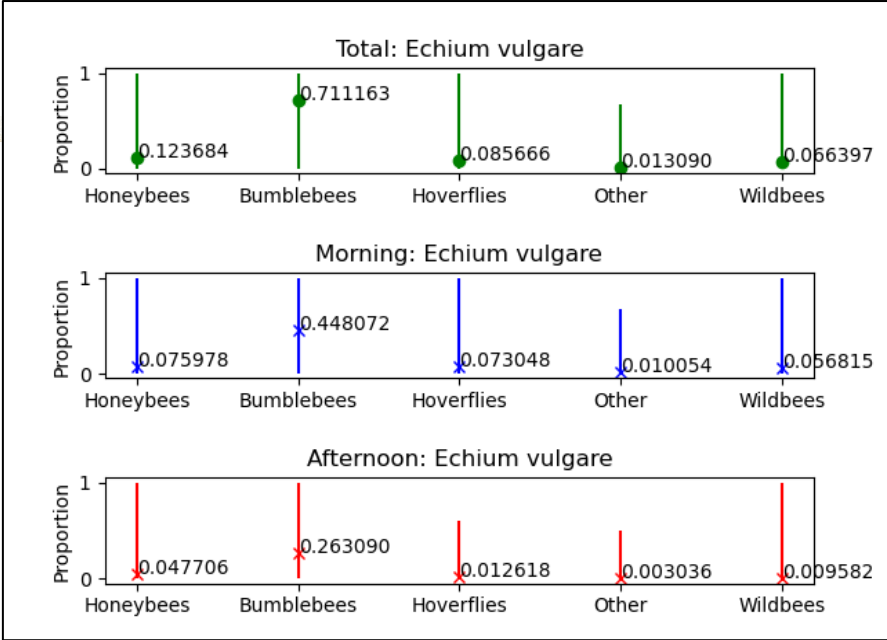


Echium vulgare
slangekruid



Echium vulgare Netherlands and Belgium

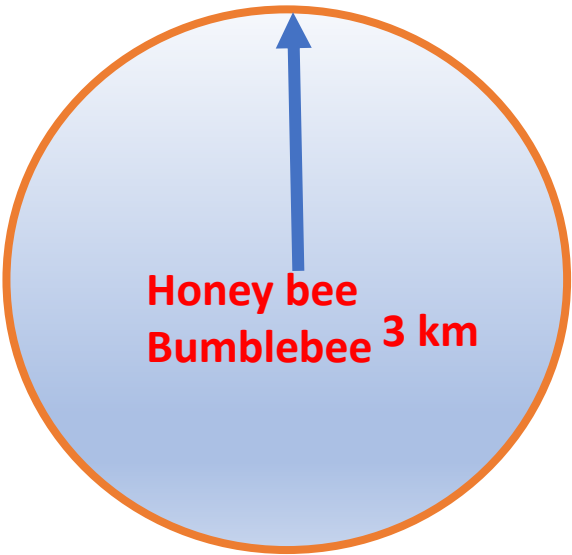
Honey bee	
bumblebee	
hoverfly	
Solitary bee	
Other insects	
period	April 2024 May 2024 June 2024 July 2024 August 2024



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Interpretation

- Multiple species simultaneous
- Before noon / afternoon
- Land-use
- Temperature
- Flight distance
- Foodsources
- Nesting



plantSpecies	honeybees	bumblebees	hoverflies	other	wildbees
Helianthus annuus	5	2	0	2	0
Corylus avellana	5	1	0	0	0
Nepata spp.	3	0	0	1	0
Melilotus alba	2	2	0	2	0
Acer platanoides	0	0	0	0	0
Salix spp.	8	2	0	0	0
Salix spp.	0	0		0	0
Solidago spp.	2	0	6	2	4

○ Solitary bee 150 meter, 0,15 meter Hoverfly is a non-central place forager



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Aknowledgement

- 250 citizen scientists
- Elena Fini AU (maps)
- Xiaodong Duan AU (data analyses)
- Danish Beekeepers Association DBF(beeplants-eu website)
- Matthias Frey frey-It (IT)

Information

- J. van der Steen alveusab@outlook.com
- BetterB website [https:// www.better-b.eu](https://www.better-b.eu)
- BetterB website **citizen science page** <https://www.better-b.eu/learning-platform/citizen-science/>





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Better-B-project

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