

Tagfaltermonitoring in den Niederlanden

Chris van Swaay

De Vlinderstichting – Dutch Butterfly Conservation

Butterfly Conservation Europe







Tagfaltermonitoring



- Why you should monitor
- Why you should do 15min counts
- Rare species matter
- Use of monitoring data for conservation of butterflies
- Why your government needs monitoring results



Why you should monitor



- 1. It's fun (I am an addict)
- 2. Only way to show what is going on
- 3. Important on all levels: local regional state country EU



It's fun: Ernie Pollard





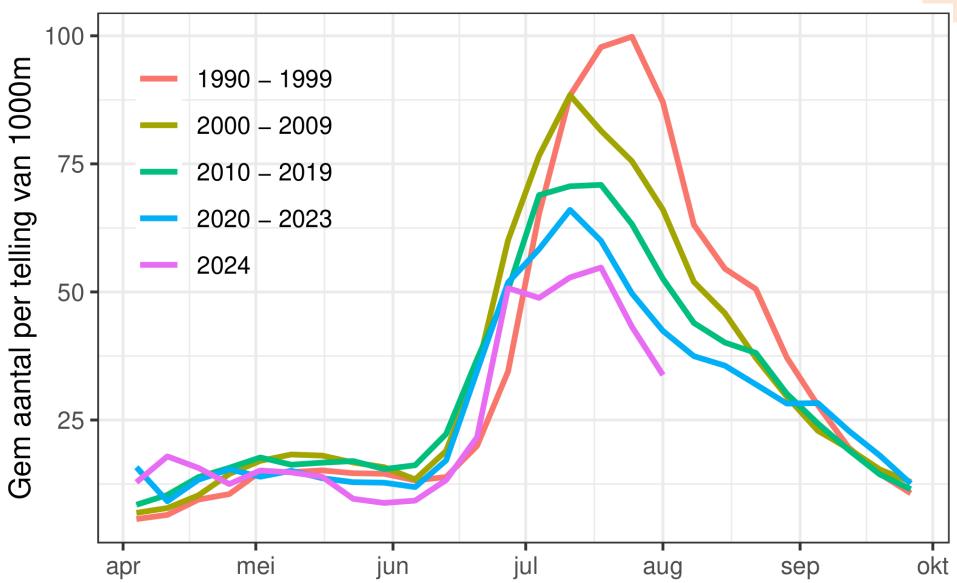


It's fun: Dutch Butterfly Day: 650 visitors





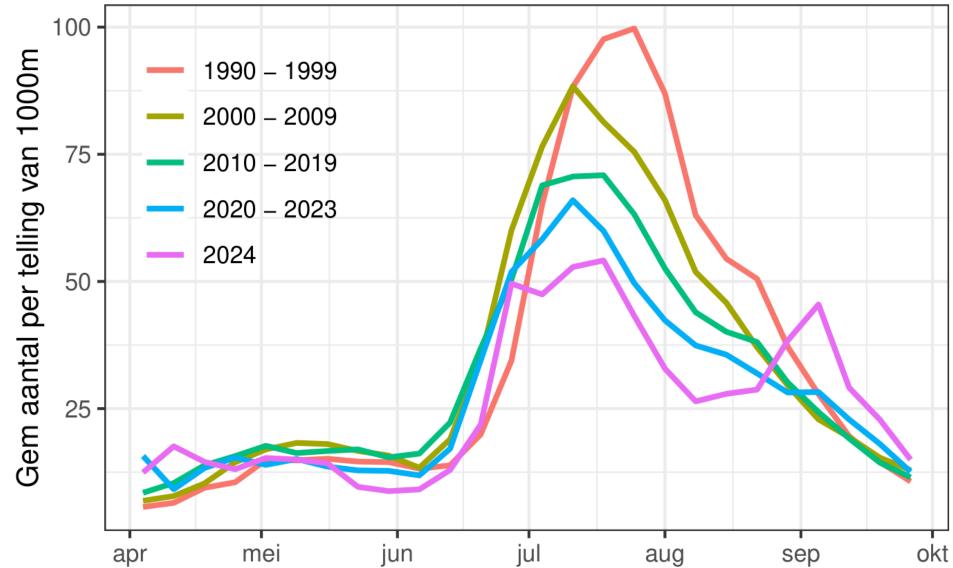
Vlinderstichting



What is going on?



Vlinderstichting

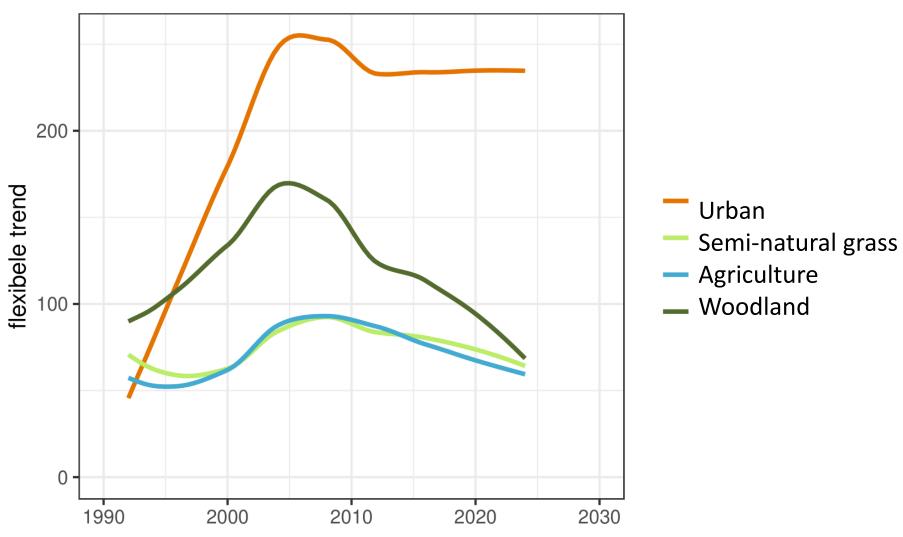


What is going on?



Trend per stratum





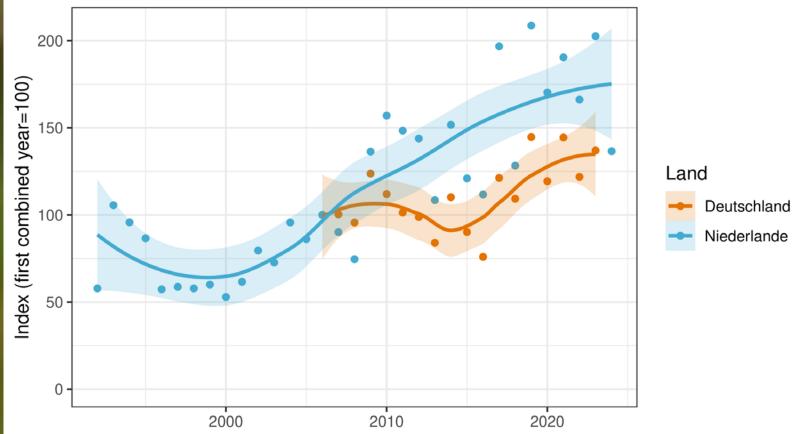


Get best trends by weighting

- Transects are not randomly distributed (e.g. recorders have a preference for nature!)
- Trends can be different per stratum
- Solution: weighting
- If possible we calculate the trend per combination of habitat (e.g. woodland) and soil/region (e.g. Sandy soils in north)
- Weight comes from occupancy (=distribution) in that stratum



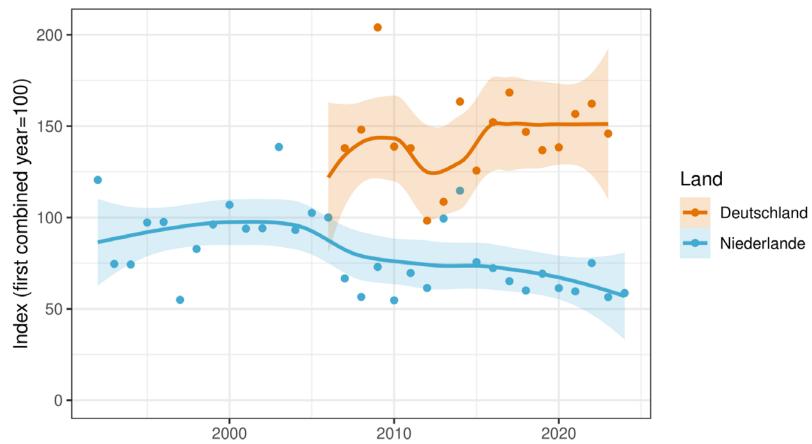




Anthocharis cardamines







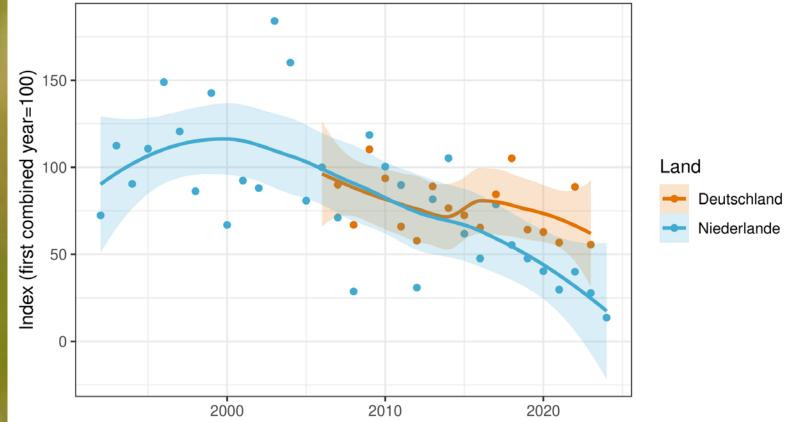
Maniola jurtina



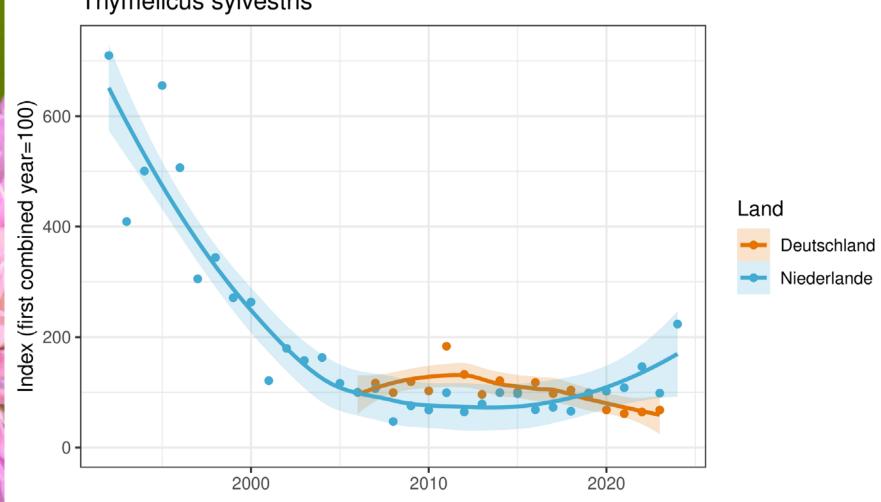




Polyommatus icarus



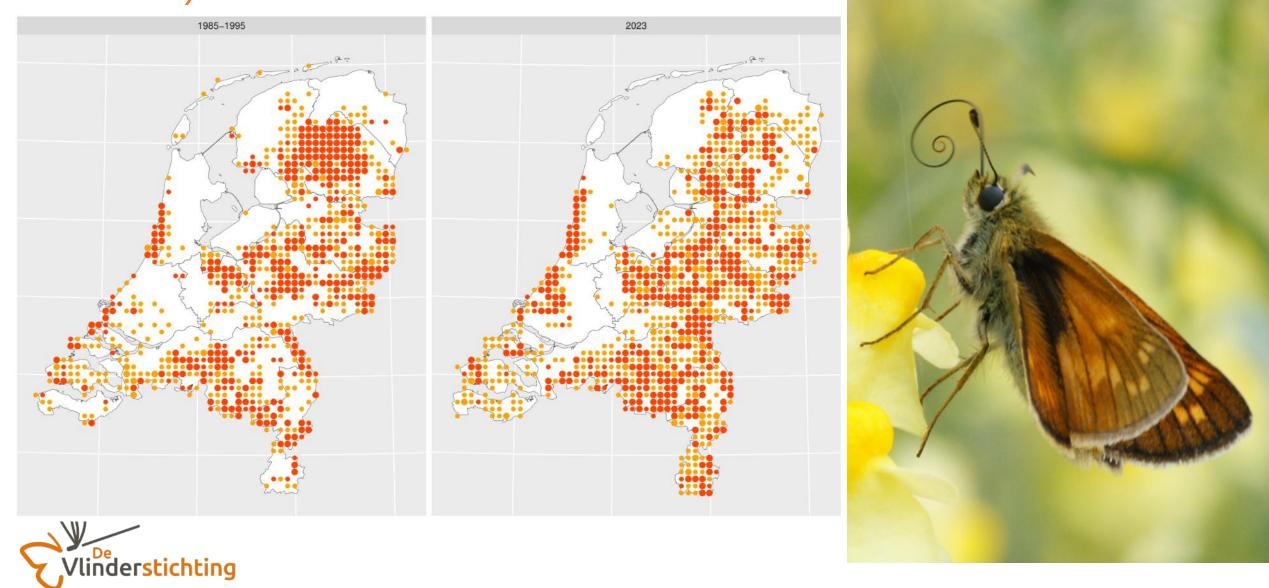


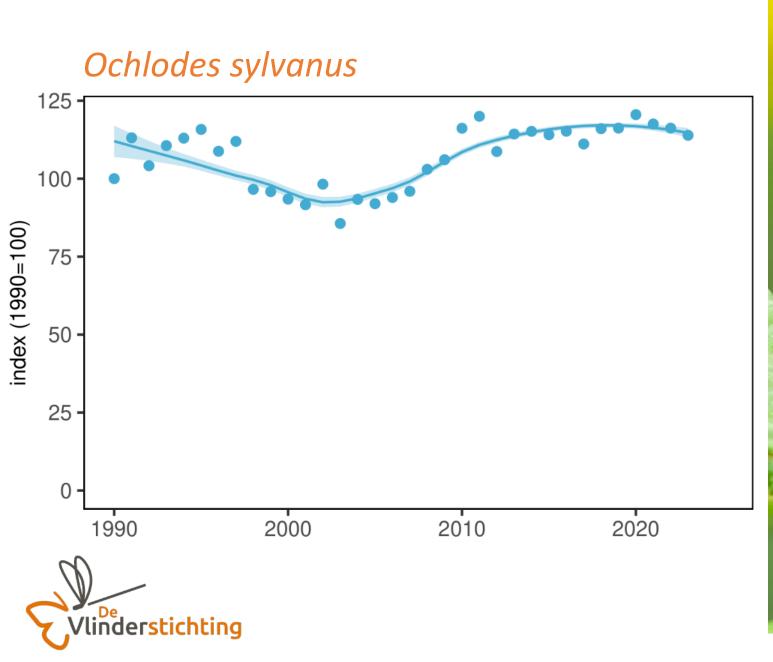


Thymelicus sylvestris



Ochlodes sylvanus

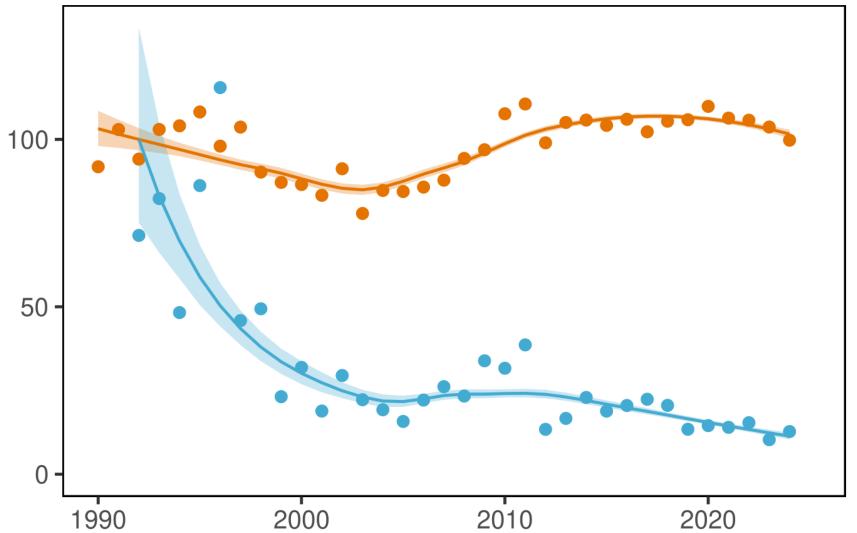




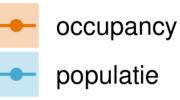


Ochlodes sylvanus

Groot dikkopje

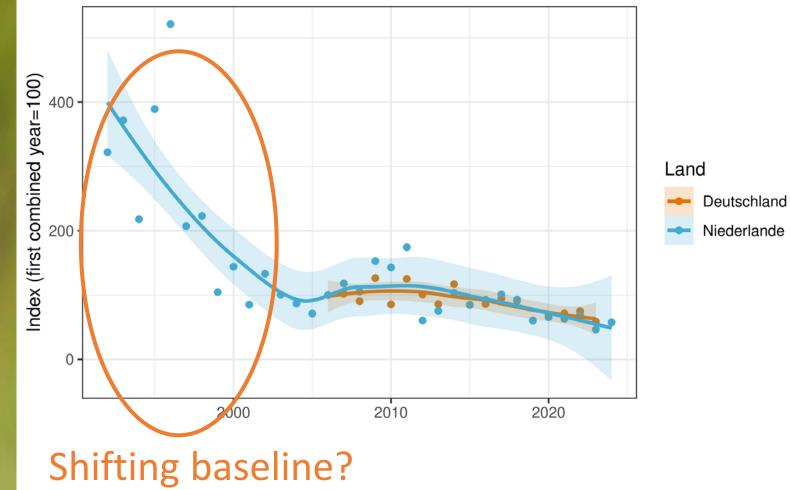












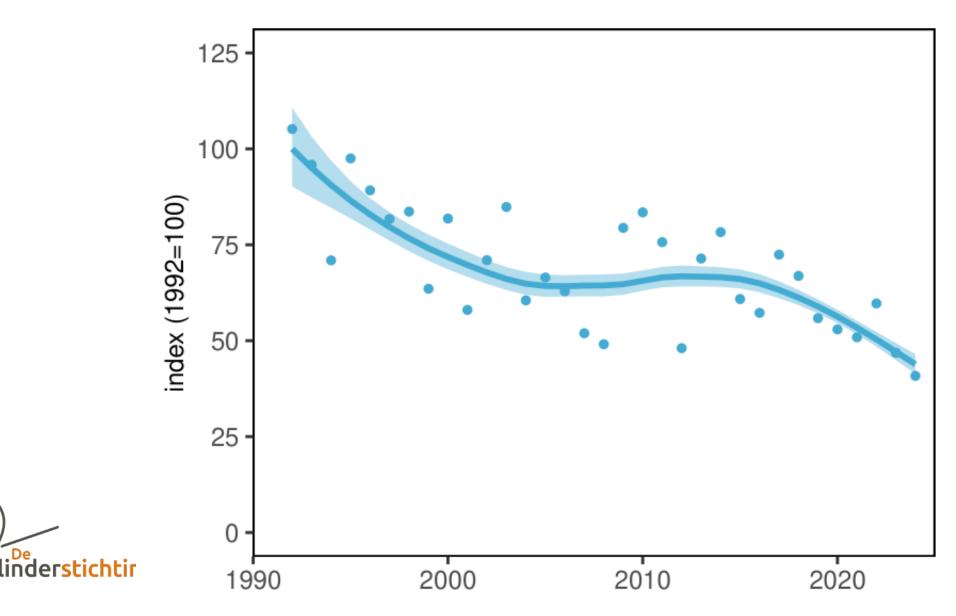
Making indicators



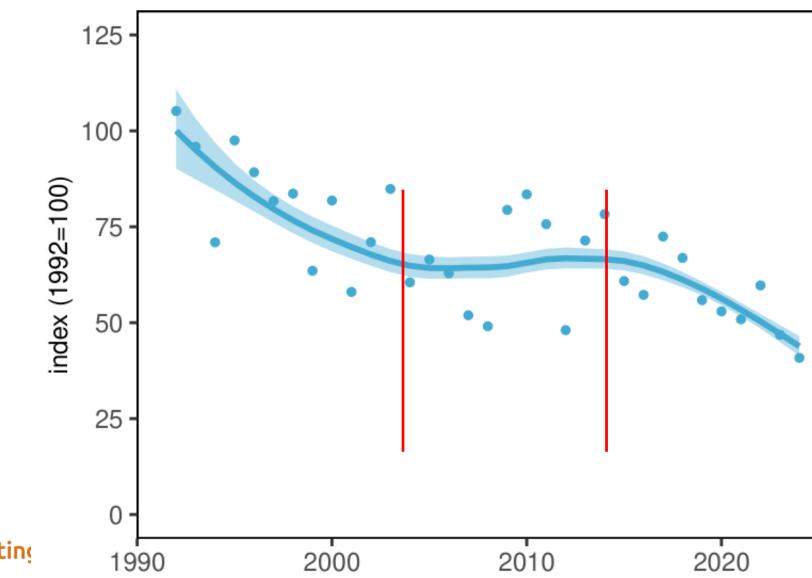
- Make one graph to combine them all
- Comparable with DAX/Dow Jones (politicians think they understand)
- Combine speciestrends to indicator



Indicator for all butterflies in Netherlands

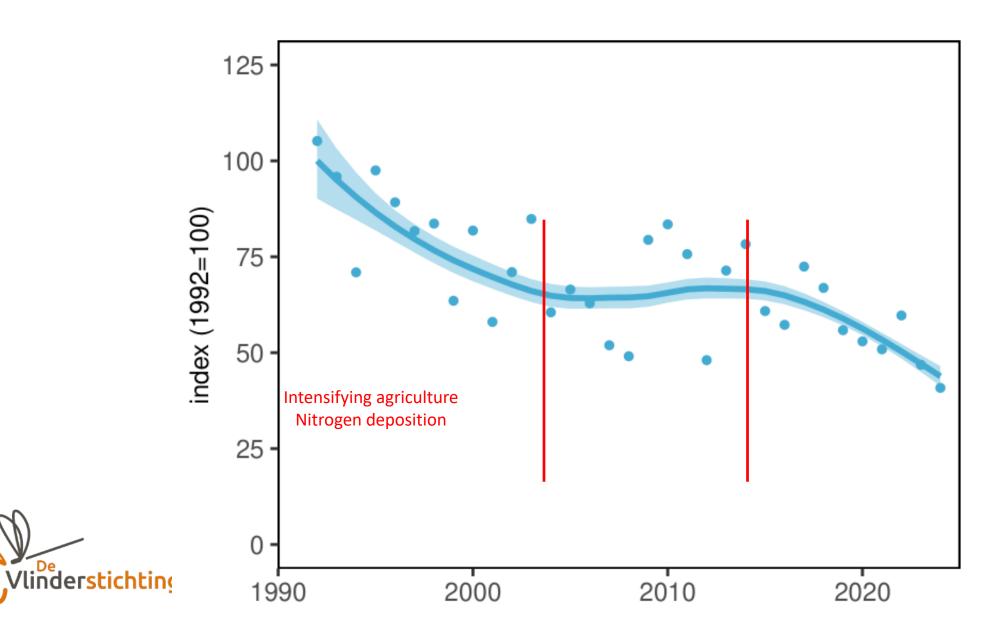




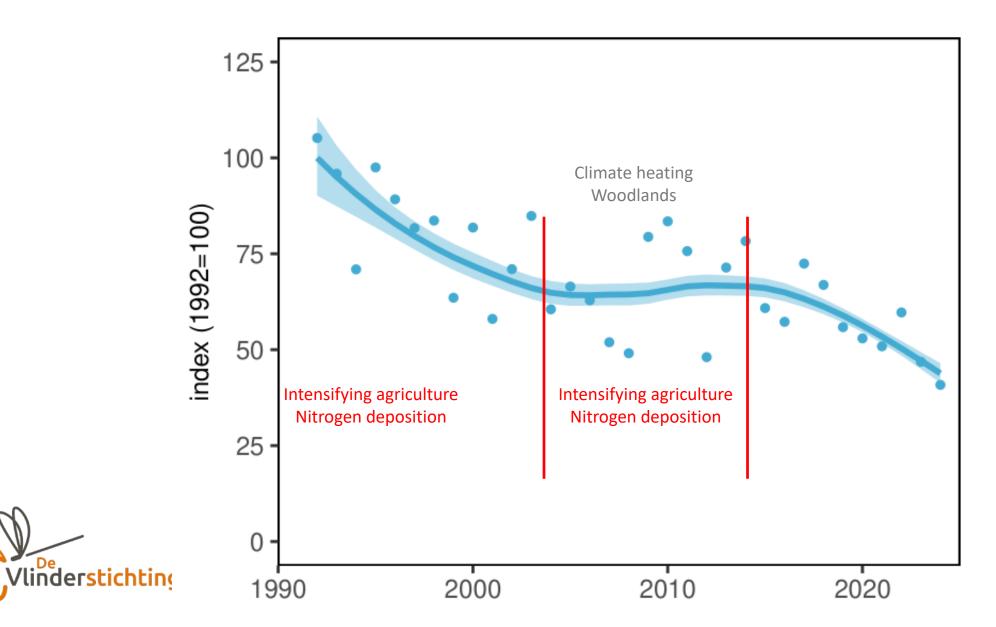




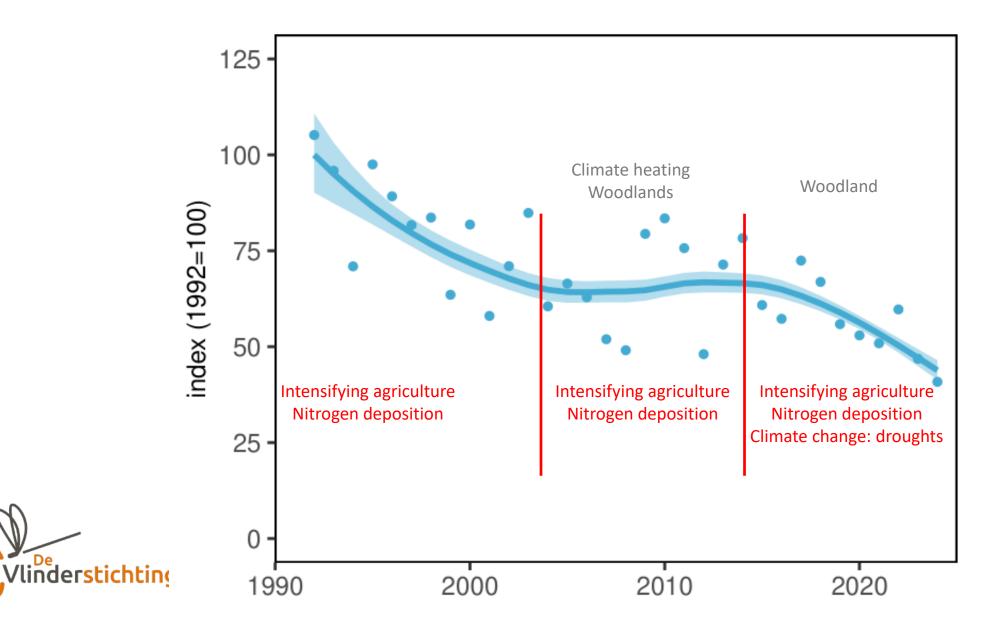




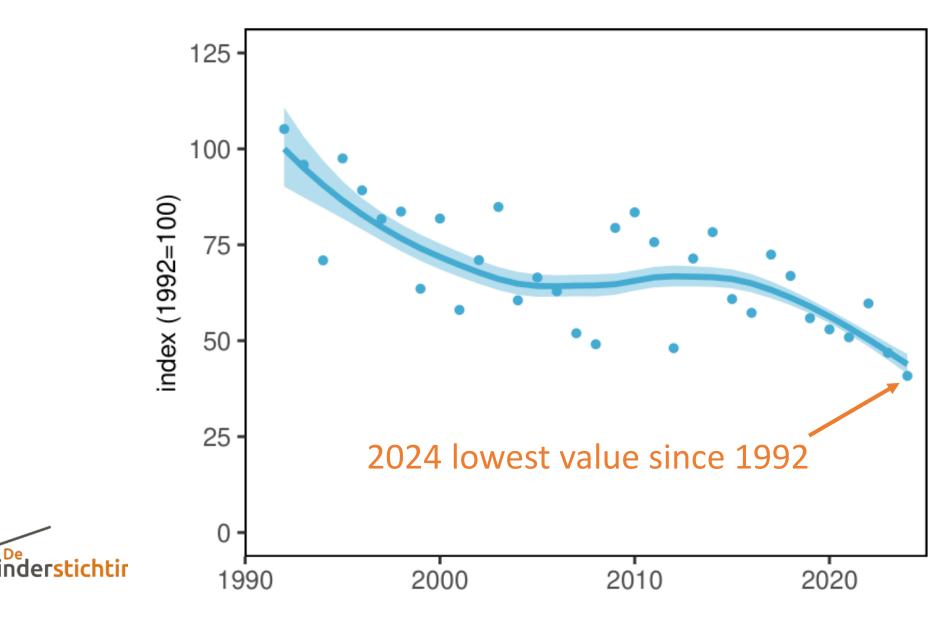








Indicator for all butterflies in Netherlands



Grassland Butterfly Index

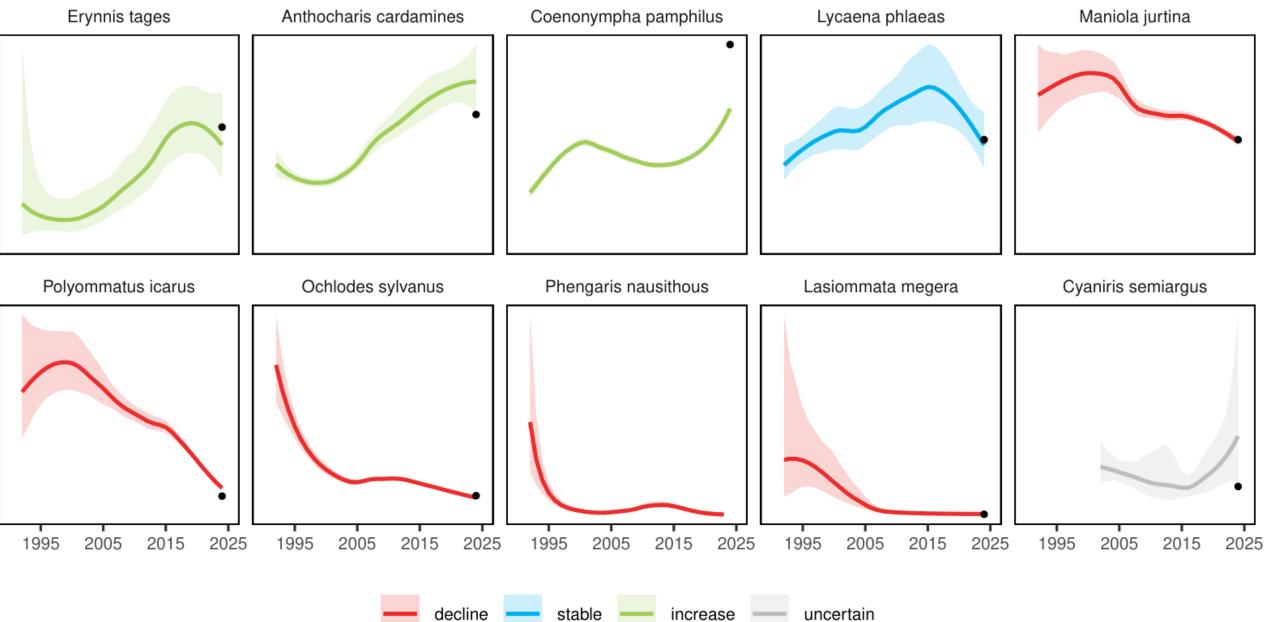
- Since 2005
- 17 characteristic grassland butterflies
- Both rare and widespread species Build indicator
- Nature Restoration Regulation



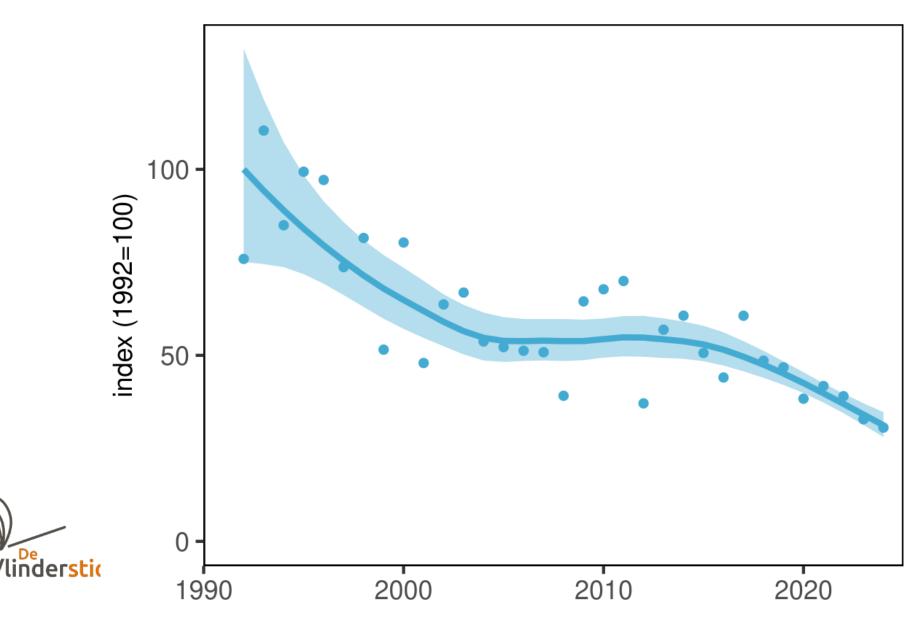


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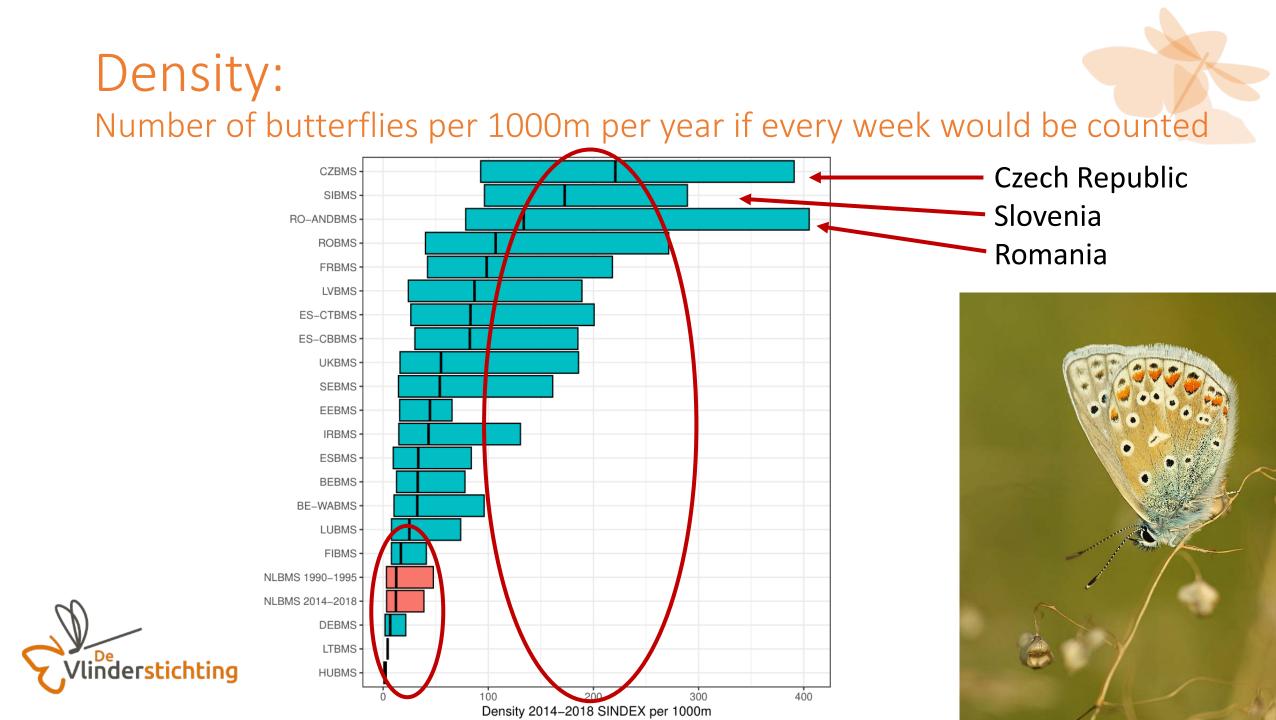


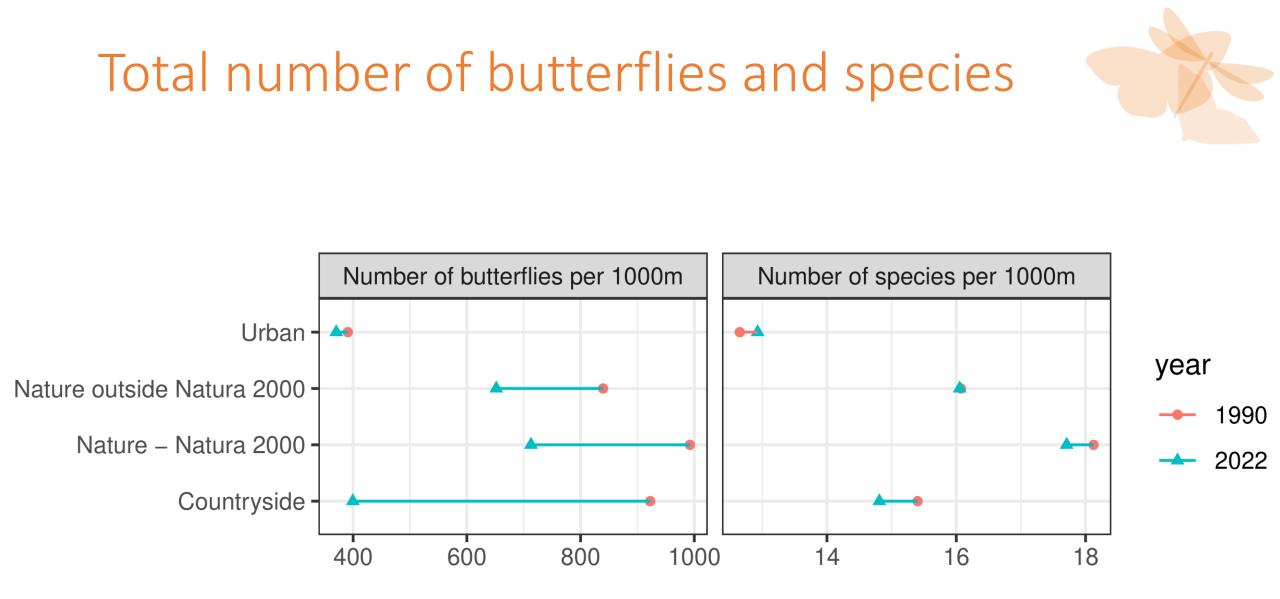


Dutch Grassland Butterfly Index











Tagfaltermonitoring



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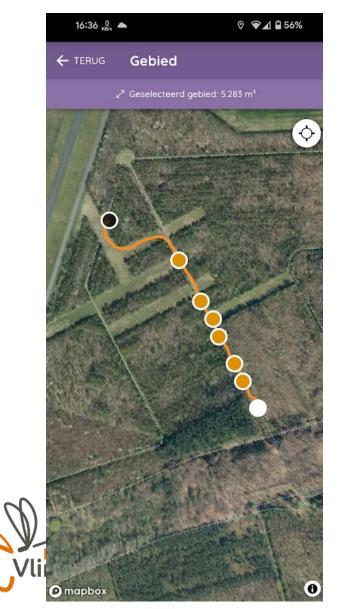
15 minute counts



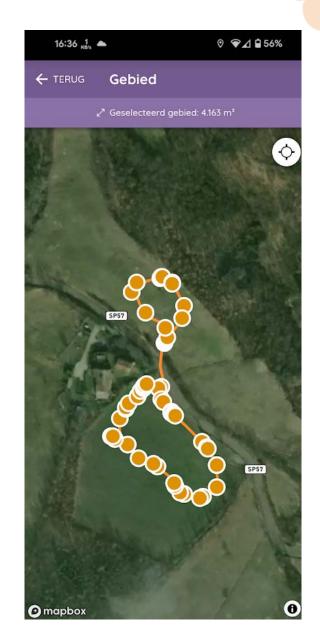
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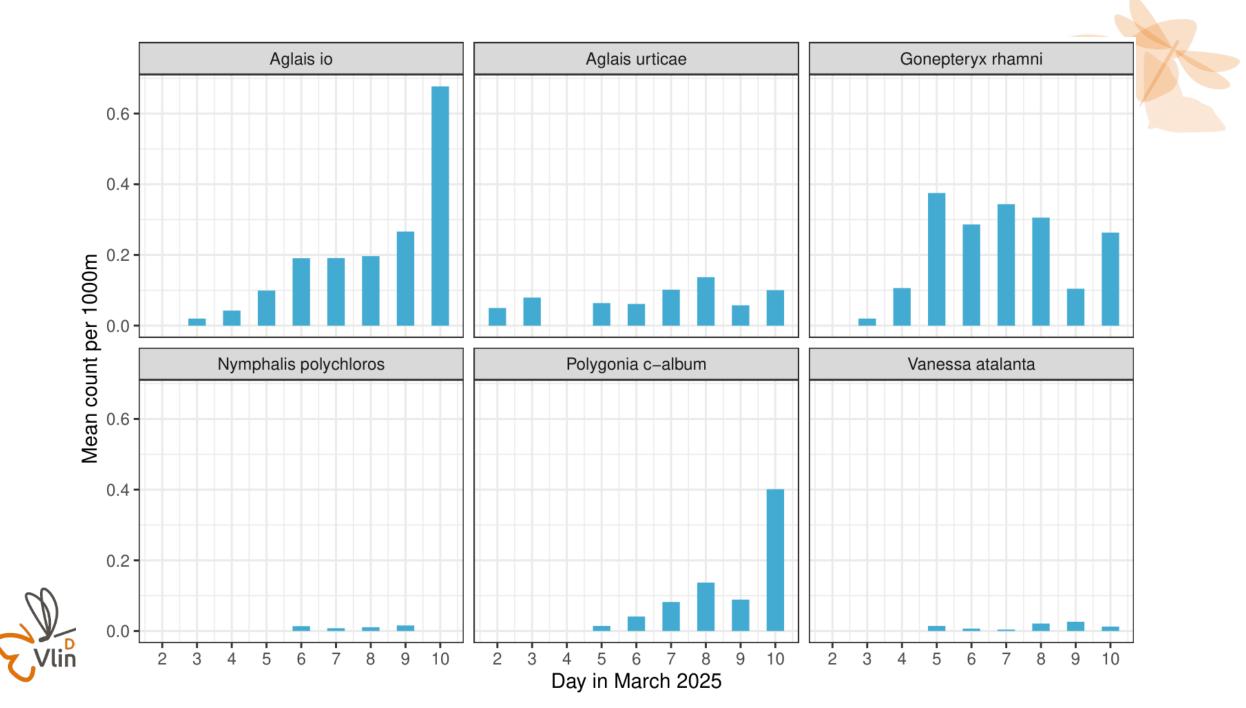
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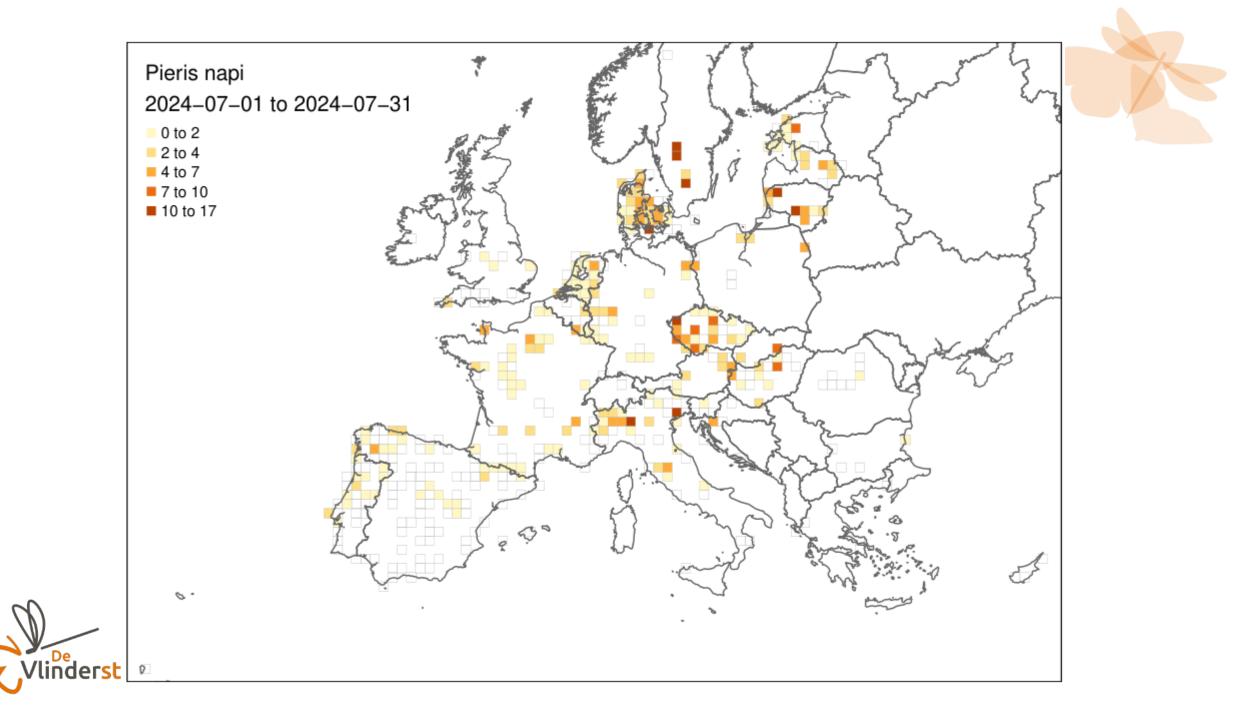
15 minute counts

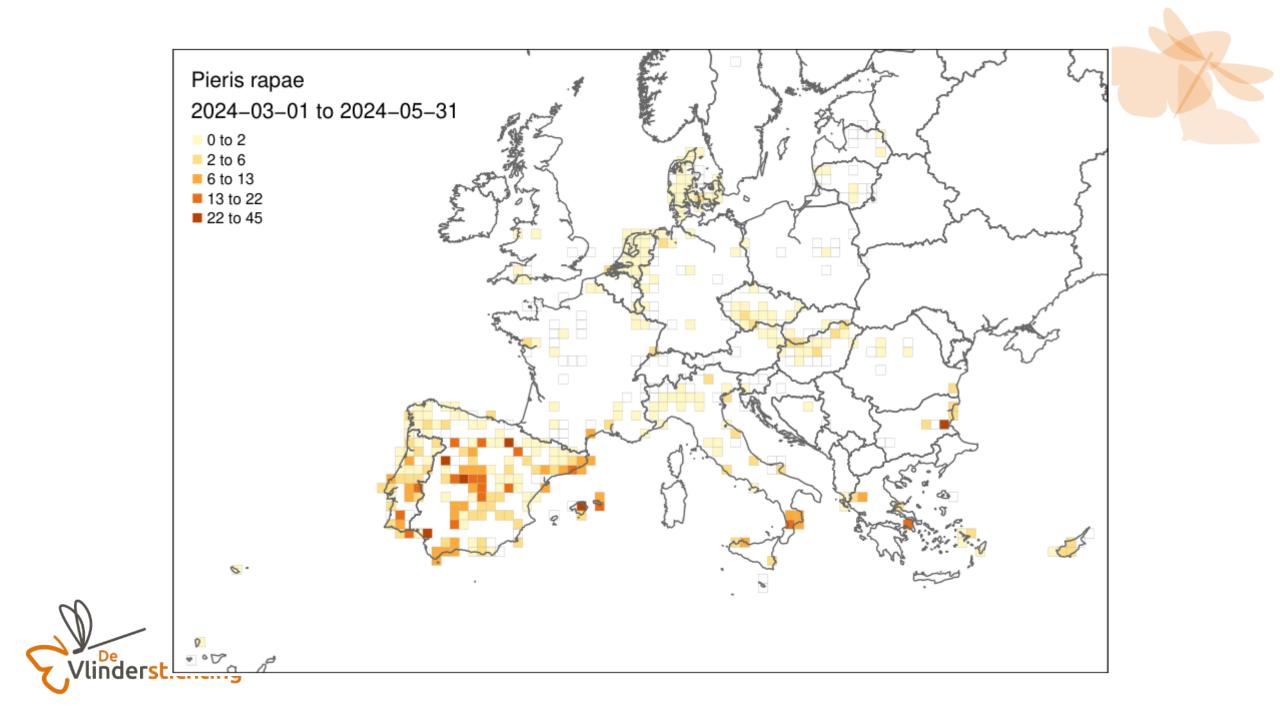


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37	Icarusblauwtje	>				
8	Colias crocea	>				
8	Leptotes pirithous	>				
7	Coenonympha pamphilus	>				
2	Pyrgus armoricanus	>				
1	Argynnis paphia	>				
1	Colias alfacariensis	>				
1	Maniola jurtina	>				









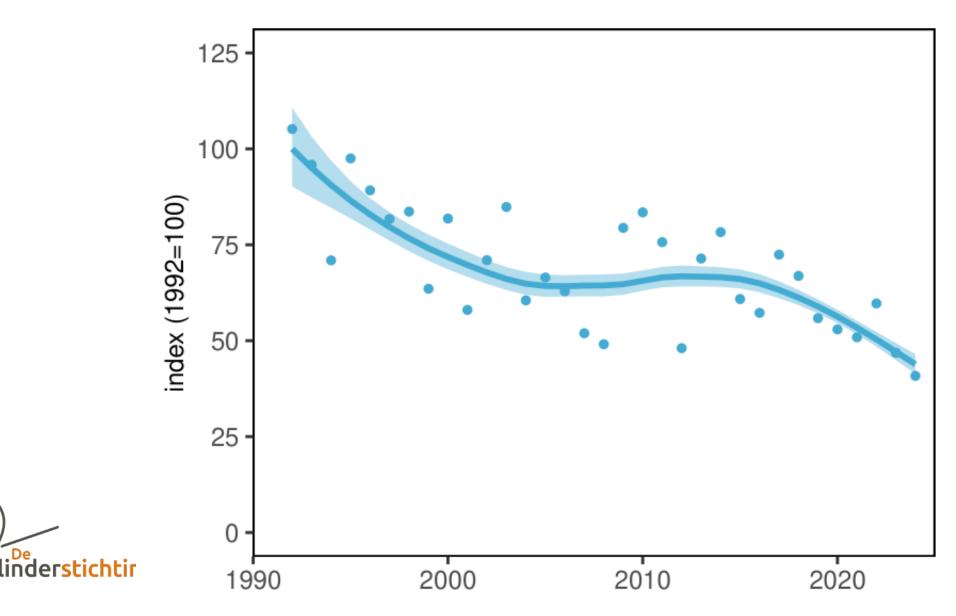
Tagfaltermonitoring



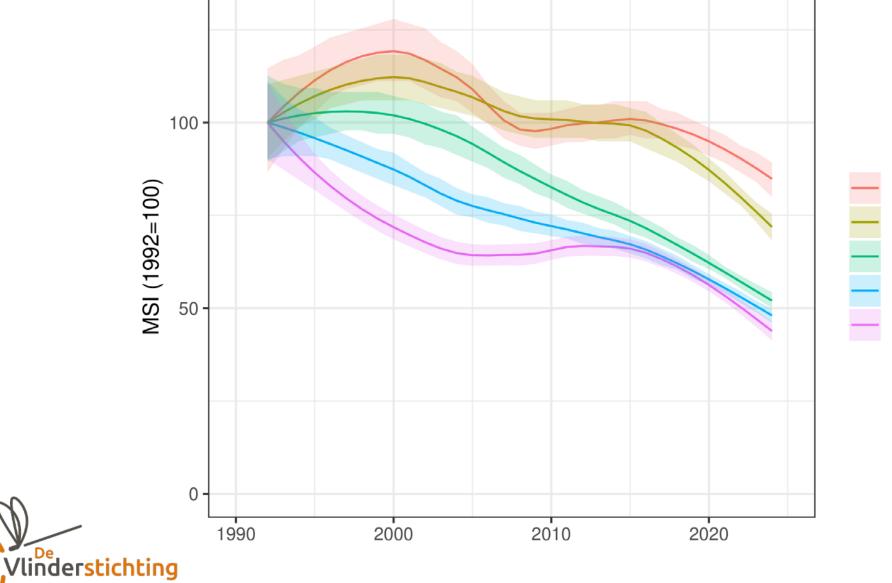
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Indicator for all butterflies in Netherlands









Rare species matter



- In an indicator (LPI type) all species have the same weight
- So Maniola jurtina = Agriades optilete
- Consider counting only 3-4-5 times in the flight period



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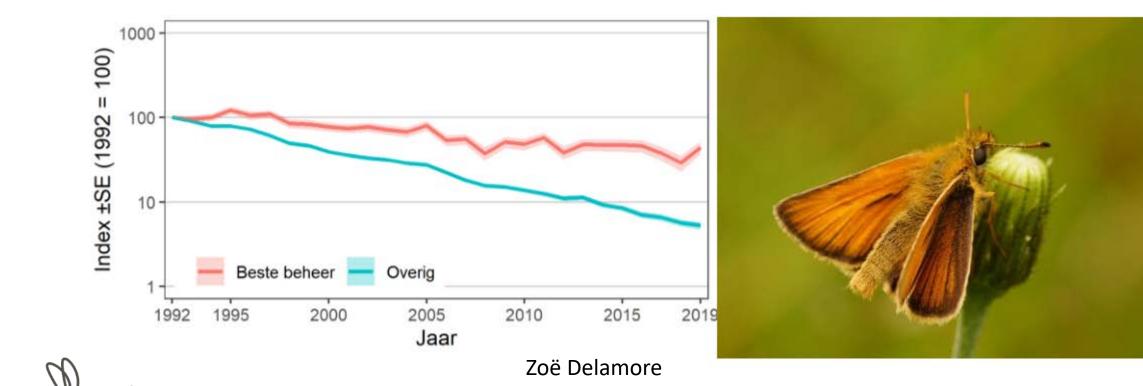
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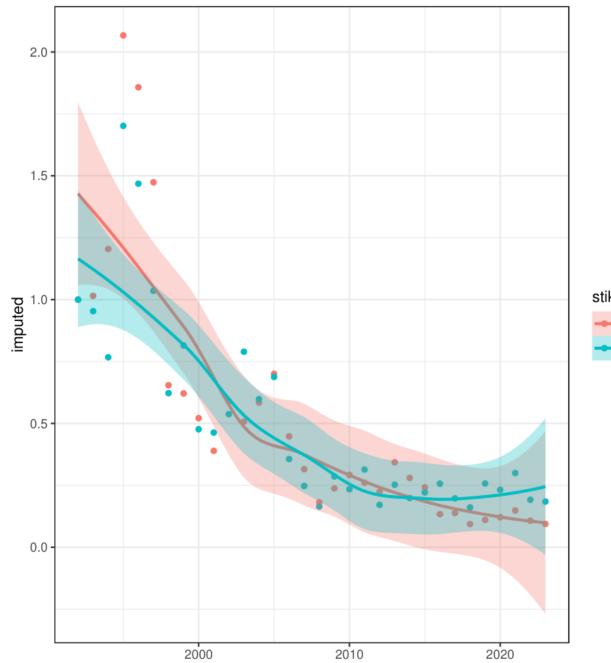


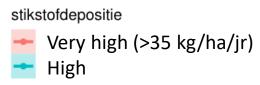
Best management

Vlinderstichting













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Butterfly results needed for:

- Convention on Biological Diversity
- Bern convention
- Habitats Directive
 - Article 17 reports
 - Standard data form (per Natura 2000 area)
 - Typical species Annex I habitats
- Nature Restoration Regulation
 - Grassland Butterfly Index (GBI)
 - Pollinator monitoring (EUPOMS)
 - National restoration plans









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