

(Weidevogel)onderzoek in Noord-Holland

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Ecoloog, Sector Groen

januari 2018

technische briefing

Soorten uit het weidevogelgrasland



Grutto (foto: Andreas Trepte)

Soorten uit het weidevogelgrasland



Noordse woelmuis (foto: Roots magazine)

Soorten uit het weidevogelgrasland



Echte Koekoeksbloem (foto: drachtplanten.nl)

Monitoring conform Natuurpact

NNN monitoring (voor zover onder SNL)

Natura 2000

Wet Natuurbescherming monitoring

Netwerk Ecologische Monitoring (NEM)

PAS monitoring

Projectmonitoring

Welke soorten

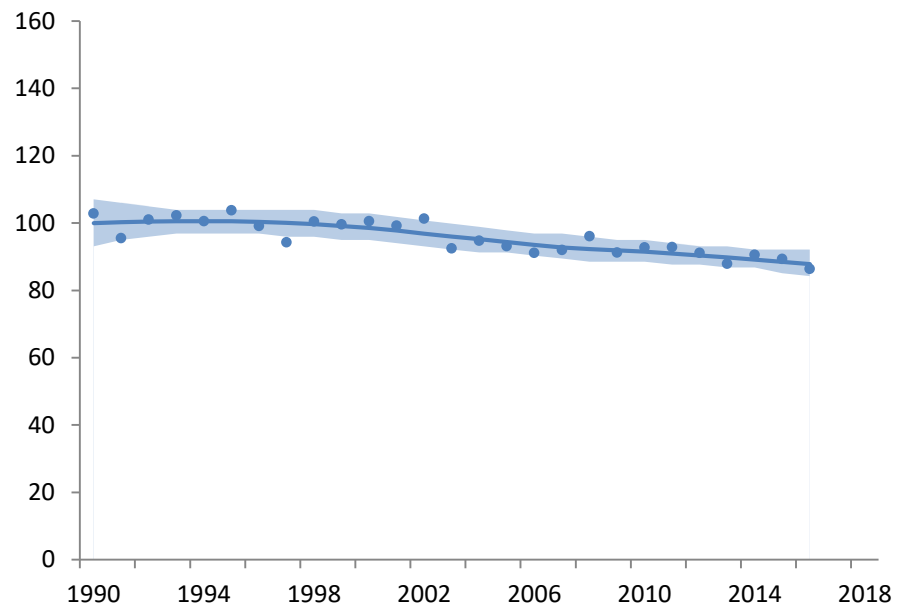
Planten

Dagvlinders en libellen

Zoogdieren

(Weide)vogels

Vogels (LPI)



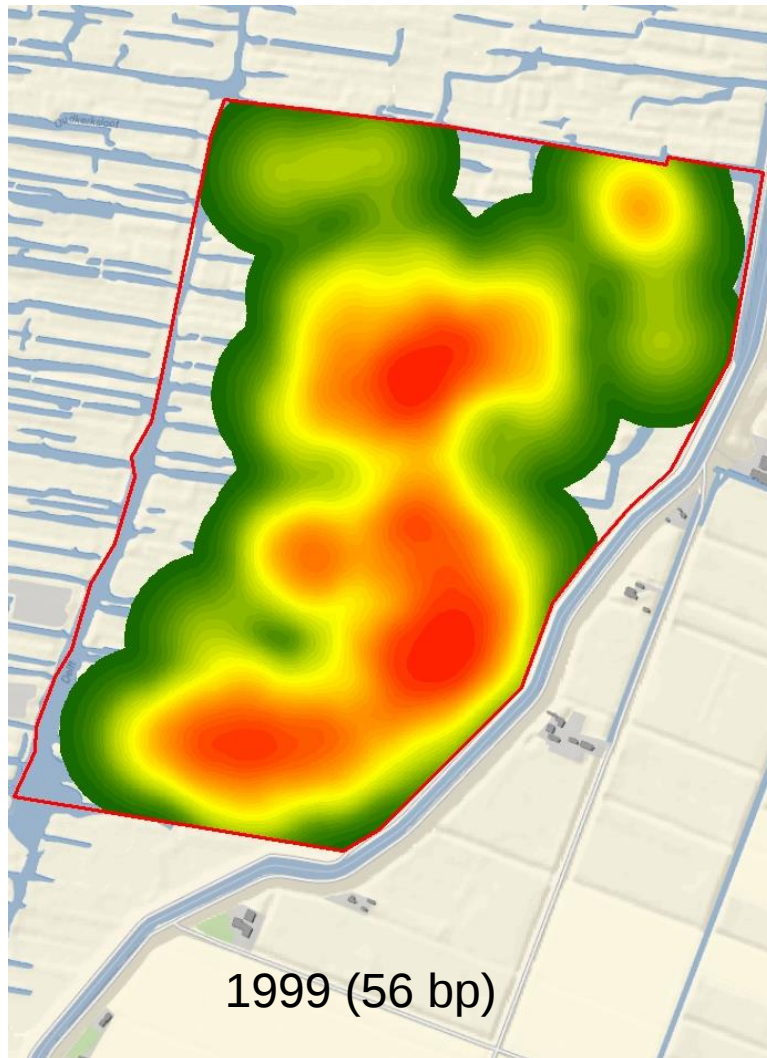
Lepelaar (foto: Maarten Visser)



Veldleeuwerik (foto: David Iliff)

Verandering gruttopopulatie

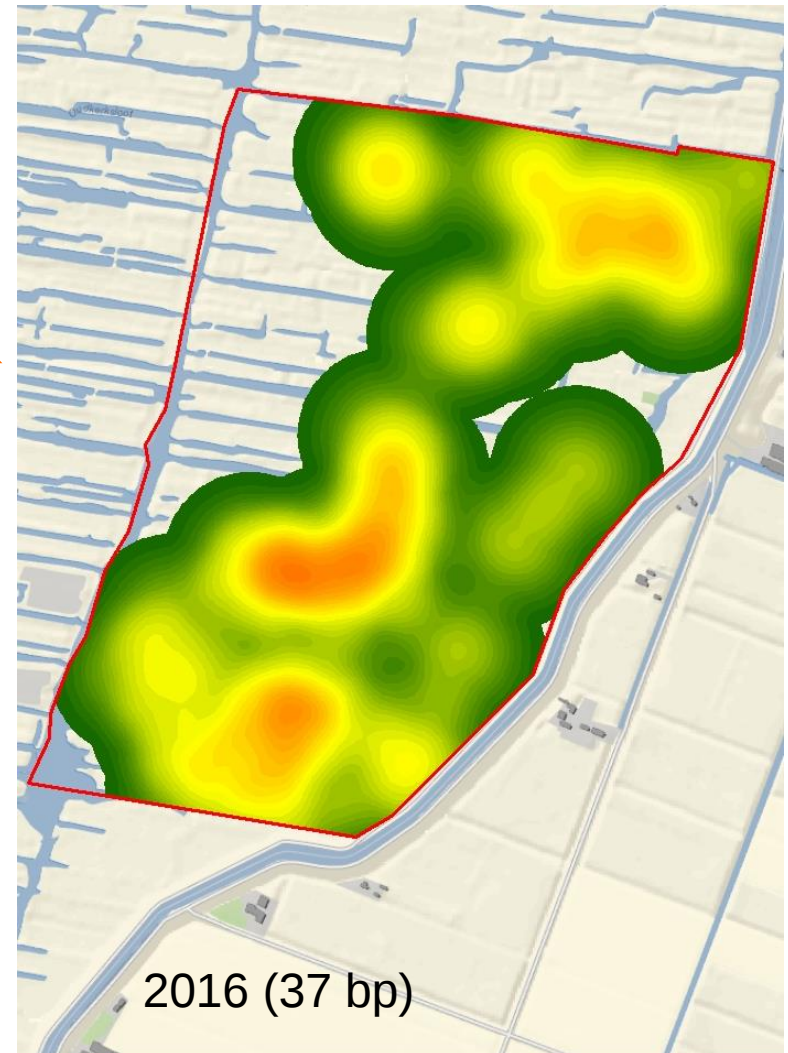
Plot M182 (Eilandspolder-Oost)



Hoge
dichtheid



Lage
dichtheid



Weidevogelbeleid

Weidevogelleefgebieden

Planologische bescherming

Subsidie natuurgebieden (S(K)NL)

Subsidie agrarisch beheerd gebied (ANLB)

Meetnet

(Twee)jaarlijks geteld

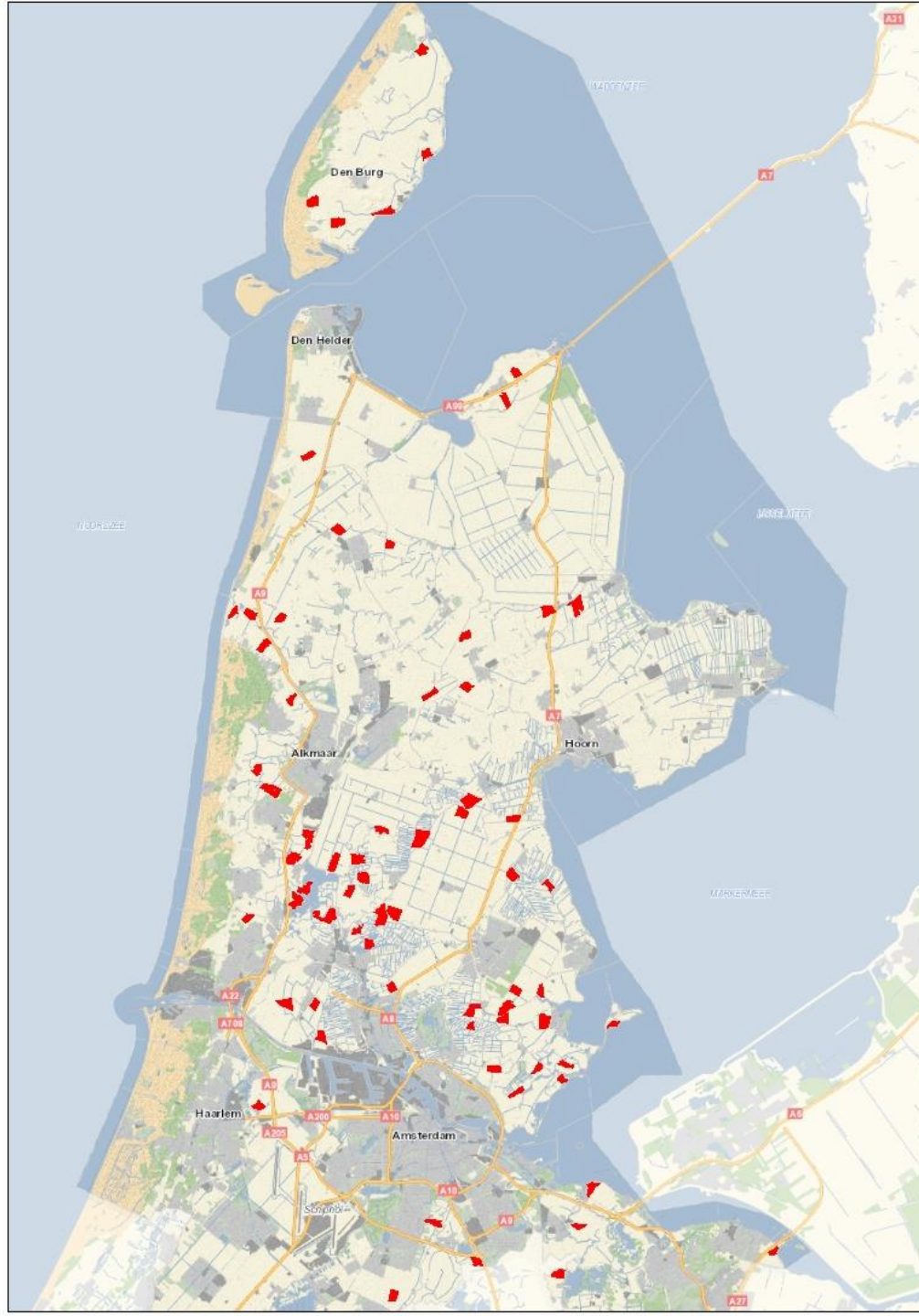
Landelijk protocol

ANLB evaluatie

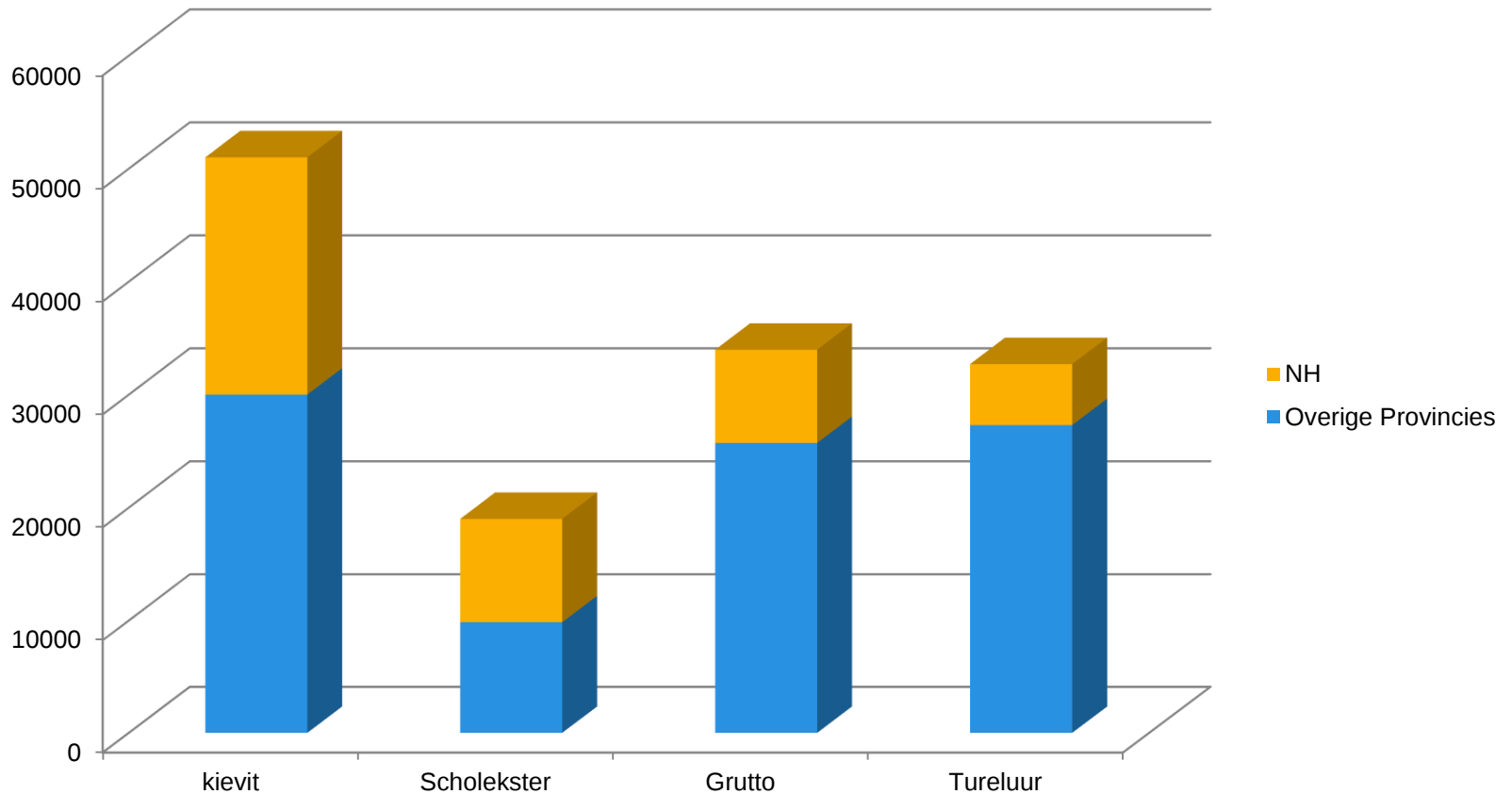
Jaarlijkse trendberekening

Landelijk en provinciaal

Niet voor vergelijking SNL ANLB



Aantal weidevogels in Noord-Holland



Vlakdekkende tellingen

In drie jaar rond

Samen met beheerders

Landelijk protocol

Sterke en zwakke gebieden

Vergelijking met eerdere tellingen

Basis is weidevogelleefgebied (PRV)



Overige monitoring

Naast beleids- ook beheermonitoring (beheerders)

Monitoring door collectieven
 nesten
 broedsucces

Monitoring SNL

Veel verzamelde gegevens door vrijwilligers

Graslanden en insecten



Hooiland (foto: H. Buter)

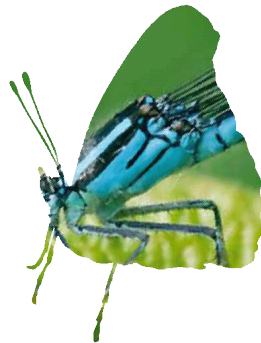
Klein geaderd witje (foto: Henk Bosma)



Bruin zandoogje (foto: Bert de Jong)

Monitoring dagvlinders Noord-Holland

Chris van Swaay
De Vlinderstichting



Wat we willen



Wat we krijgen



ge **Wildlife** Energy Pollution

Warning of 'ecological Armageddon' after dramatic plunge in insect numbers



most popular



Trump tried to fire Mueller in June but White House counsel refused - report



White House asks for Van Gogh loan - but museum offers gold toilet instead



Philippines volcano: lava erupts from Mount Mayon as ash covers towns



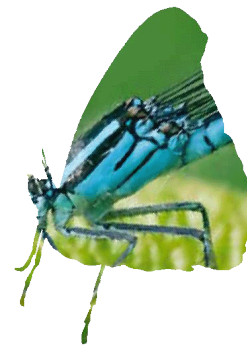
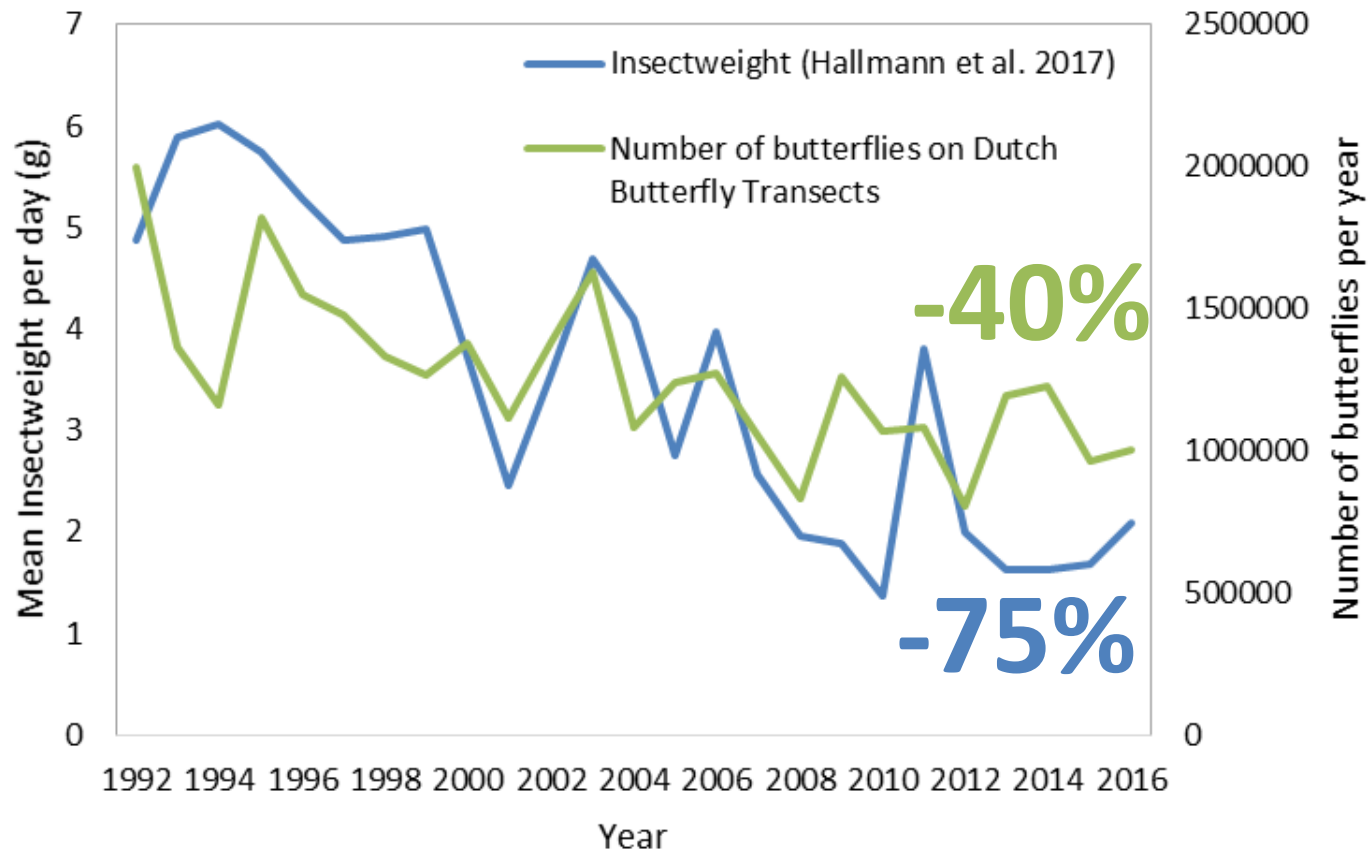
George Soros: Facebook and Google are a menace to society



'Ce n'est pas normal!' French shoppers brawl over discounted Nutella

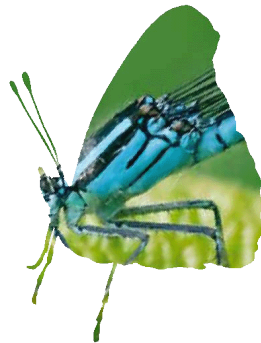


Achteruitgang insecten en vlinders

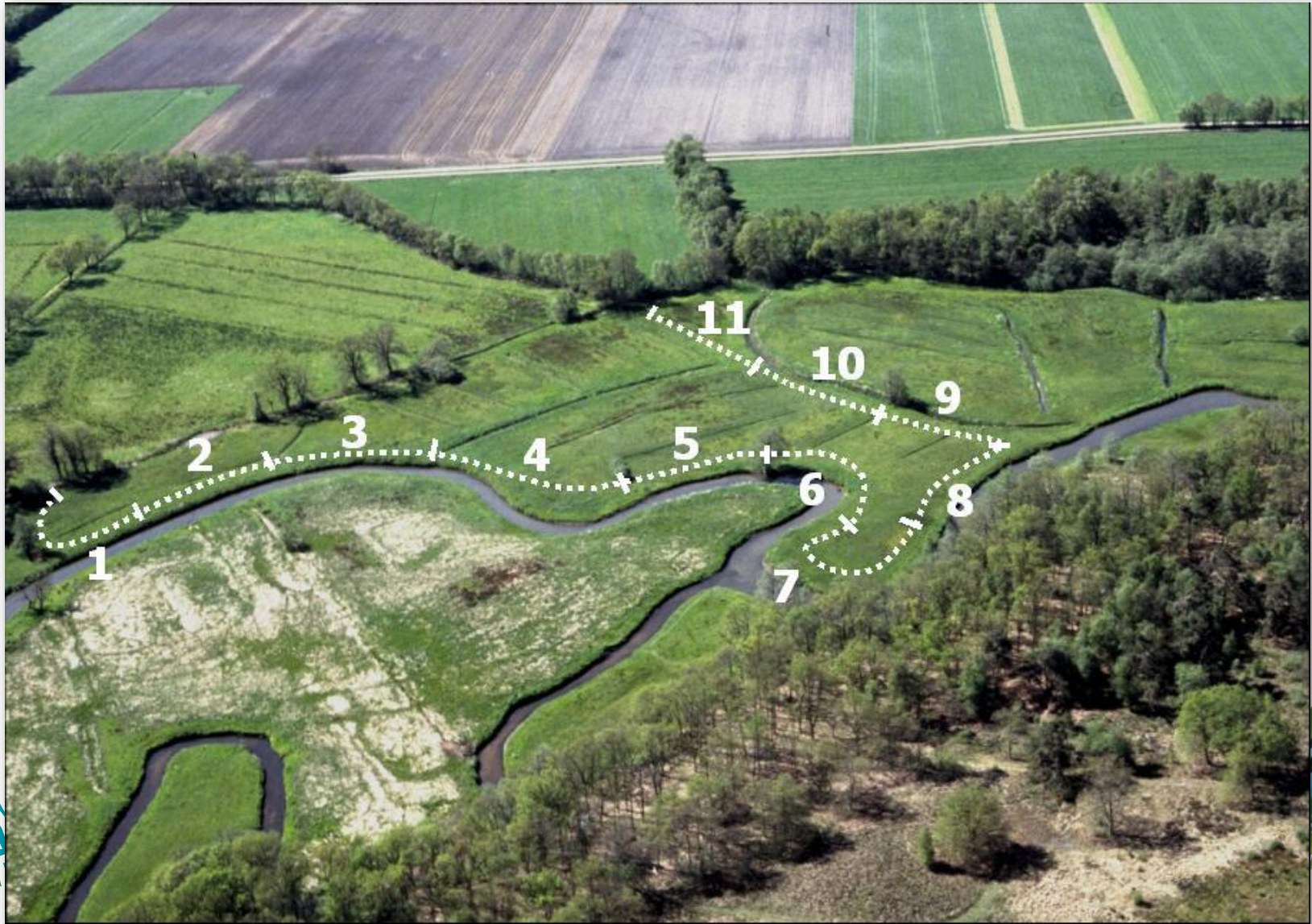


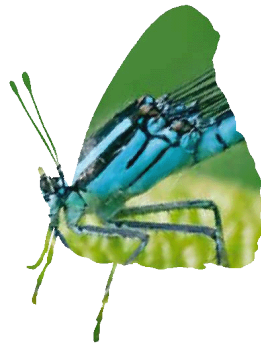
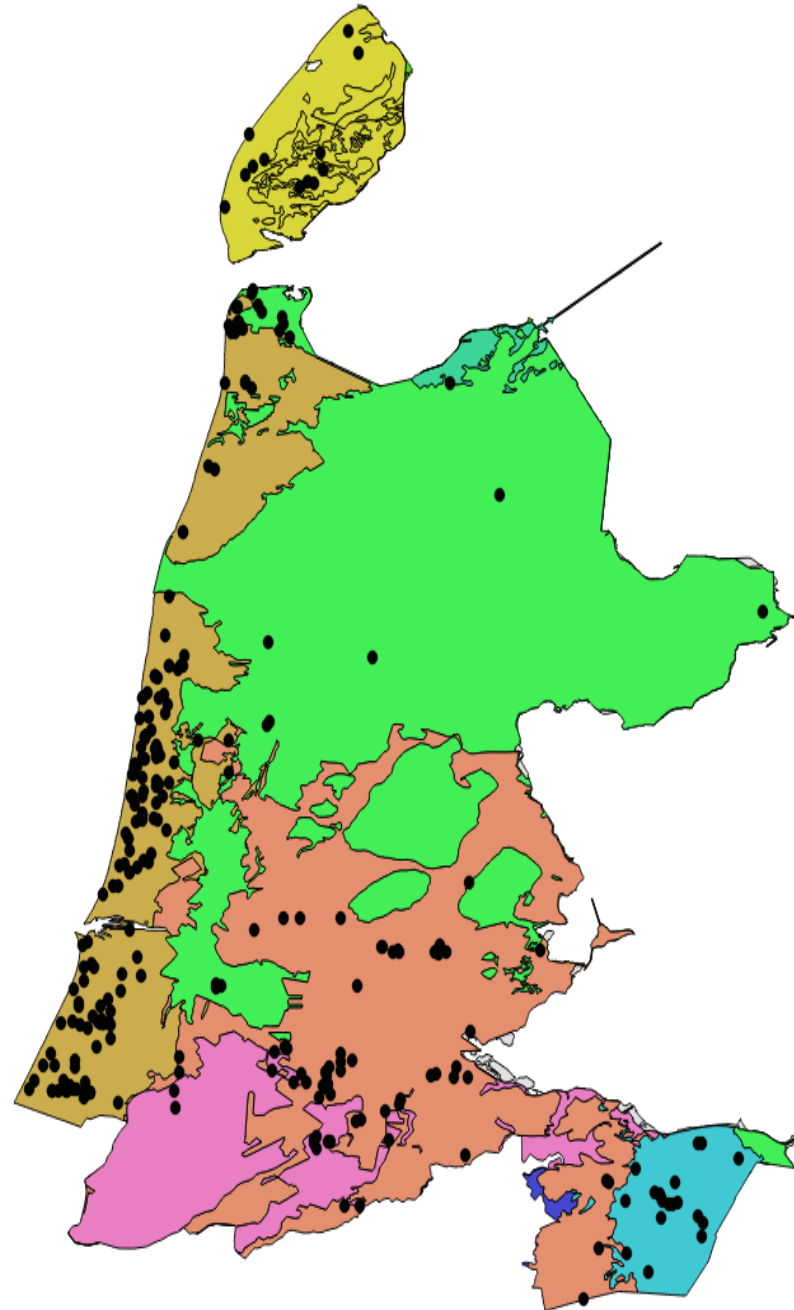
Vlindermonitoring

- Sinds 1990
- Jaarlijks op 900 plekken in Nederland, in totaal meer dan 2300 plekken
- Wekelijks tellen
- Vrijwel helemaal door vrijwilligers
- Samen met het CBS (kwaliteitsbewaking)
- Onderdeel van het NEM (Netwerk Ecologische Monitoring)

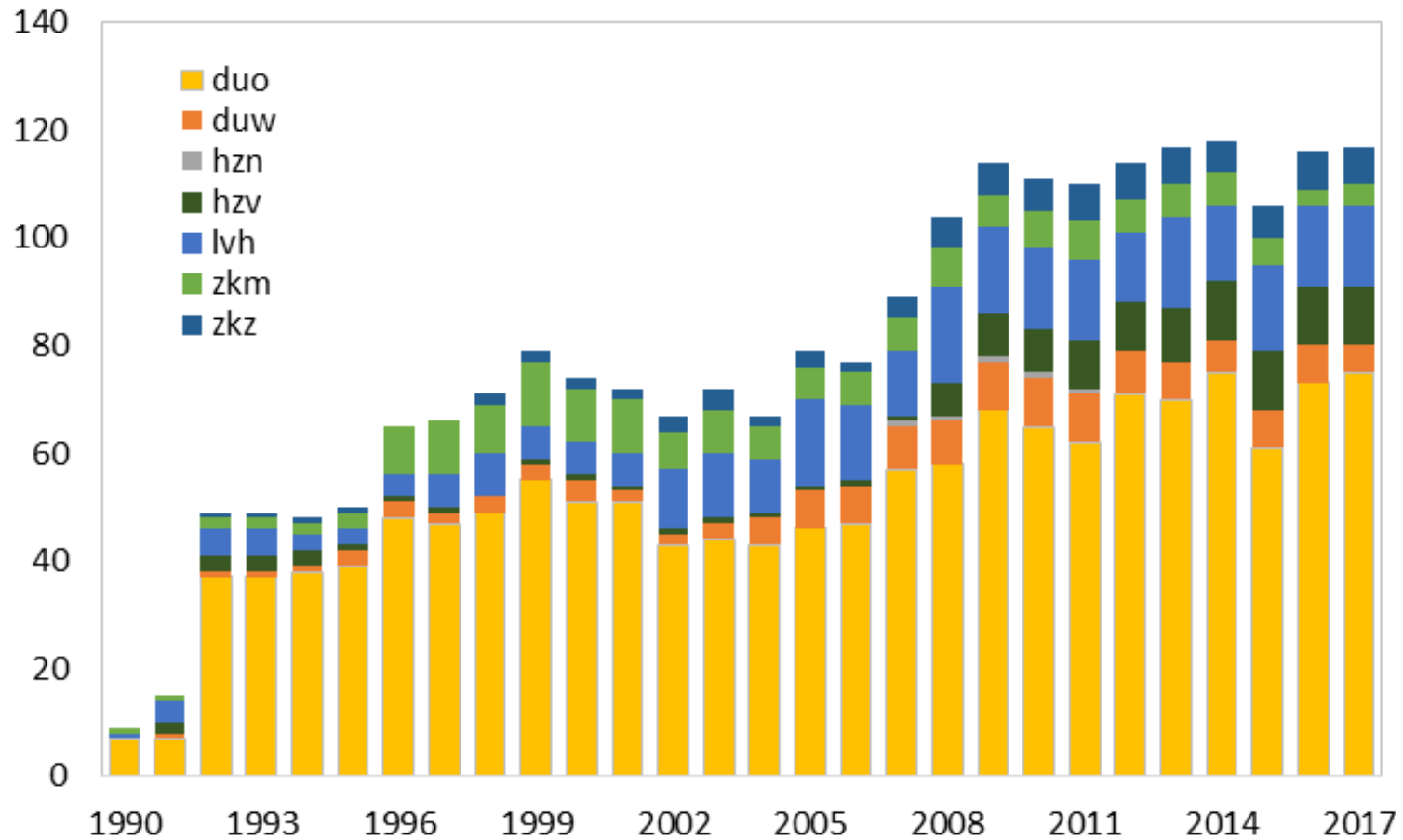


Transecten

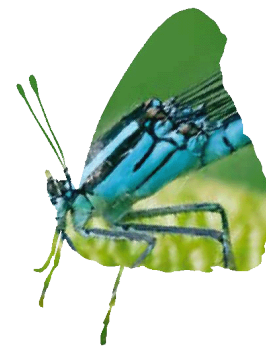
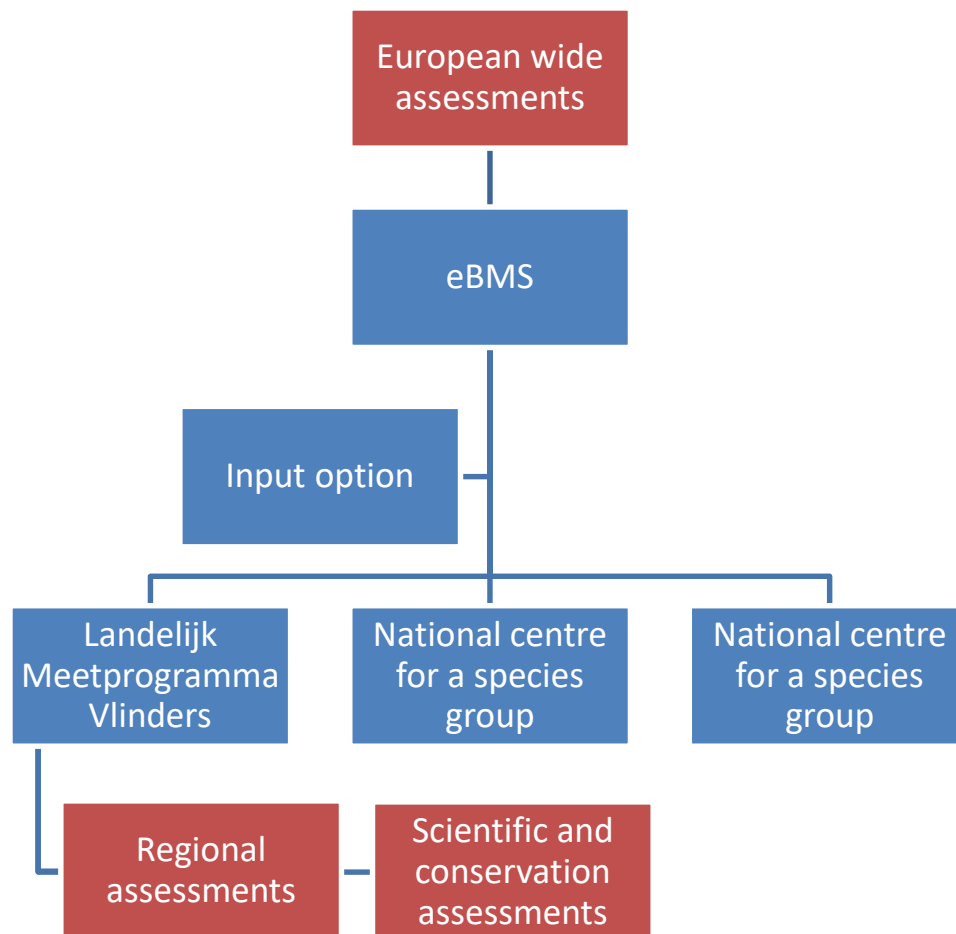


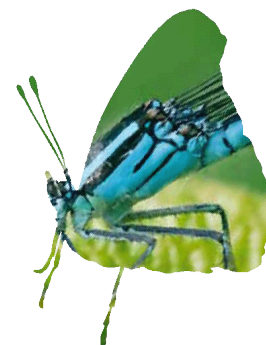
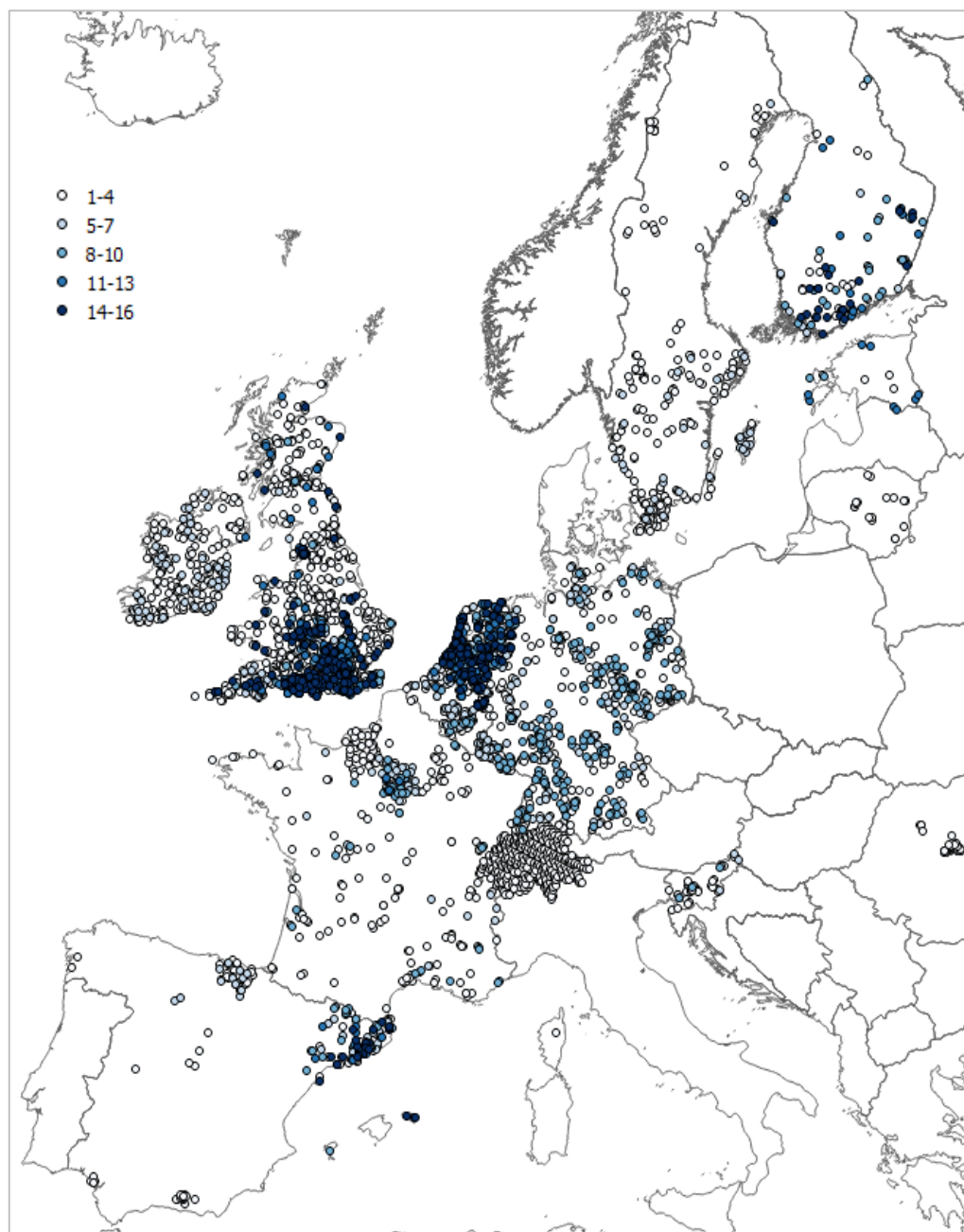


Aantal transecten

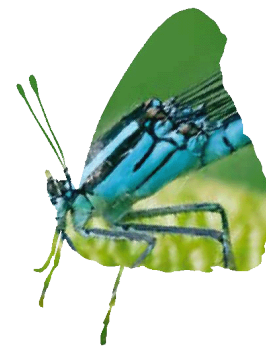
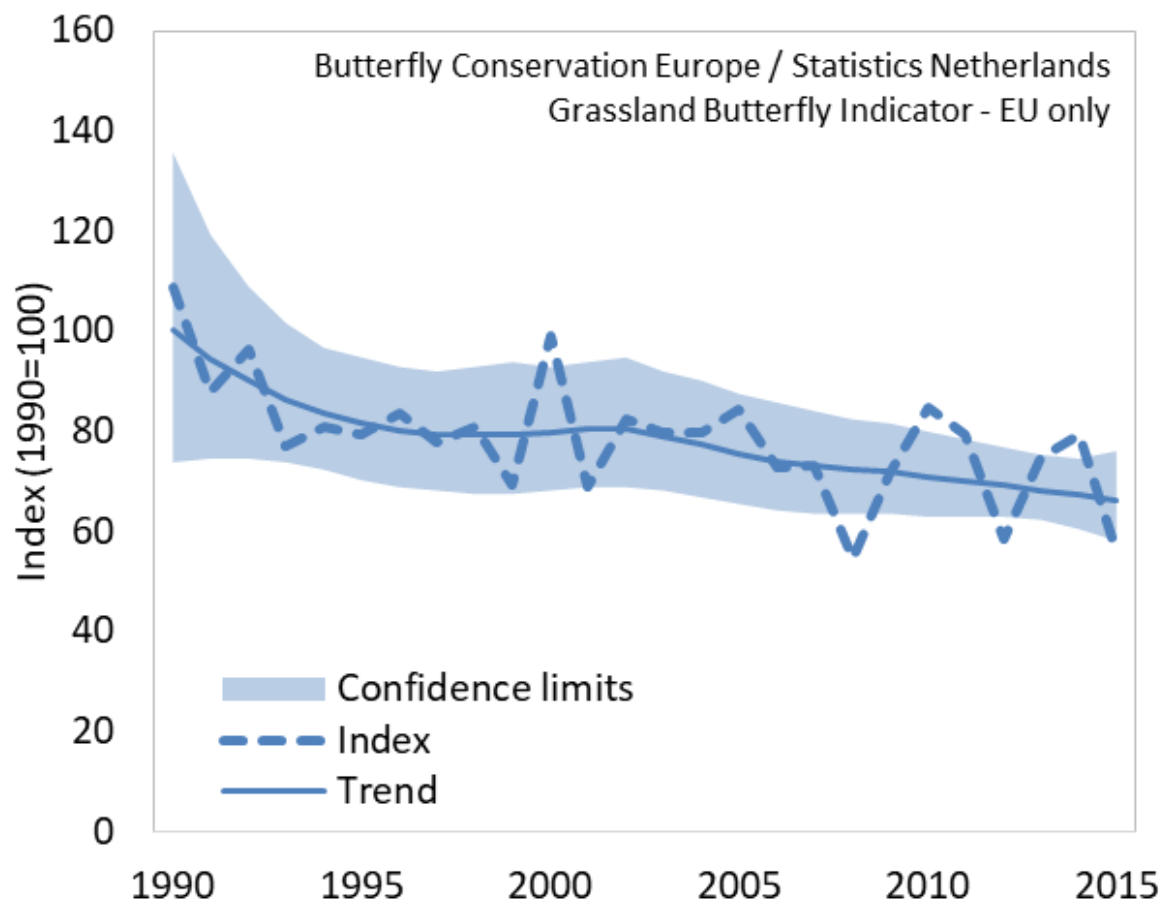


Onderdeel van groter geheel





Europese graslandvlinder indicator



Vlinders als klimaatindicatoren

nature
climate change

LETTERS

PUBLISHED ONLINE: 8 JANUARY 2012 | DOI:10.1038/NCLIMATE1347

Differences in the climatic debts of birds and butterflies at a continental scale

Vincent Devictor^{1*}, Chris van Swaay², Tom Brereton³, Lluís Brotons^{4,5}, Dan Chamberlain⁶, Janne Heliölä⁷, Sergi Herrando⁴, Romain Julliard⁸, Mikko Kuussaari⁷, Åke Lindström⁹, Jiří Reif¹⁰, David B. Roy¹¹, Oliver Schweiger¹², Josef Settele¹², Constantí Stefanescu¹³, Arco Van Strien¹⁴, Chris Van Turnhout^{15,16}, Zdeněk Vermouzek¹⁷, Michiel WallisDeVries^{2,18}, Irma Wynhoff² and Frédéric Jiguet⁸

Climate changes have profound effects on the distribution of numerous plant and animal species^{1–3}. However, whether and how different taxonomic groups are able to track climate changes at large spatial scales is still unclear. Here, we measure and compare the climatic debt accumulated by bird and butterfly communities at a European scale over two decades (1990–2008). We quantified the yearly change in community

directly affected by climate warming and taxonomic groups with short generation time should favour faster evolutionary responses to selective pressures induced by climate changes¹³. Yet, whether different taxonomic groups are tracking climate change at the same rate over large areas is still unclear, and methods to routinely assess the mismatch between temperature increases and biodiversity responses at different spatial scales are still missing¹⁶.

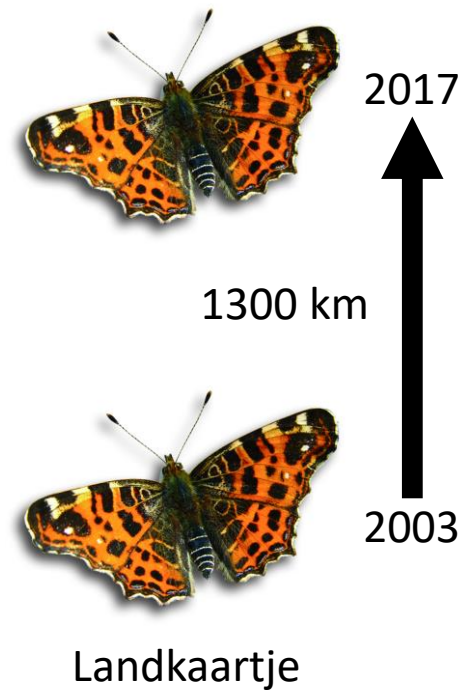
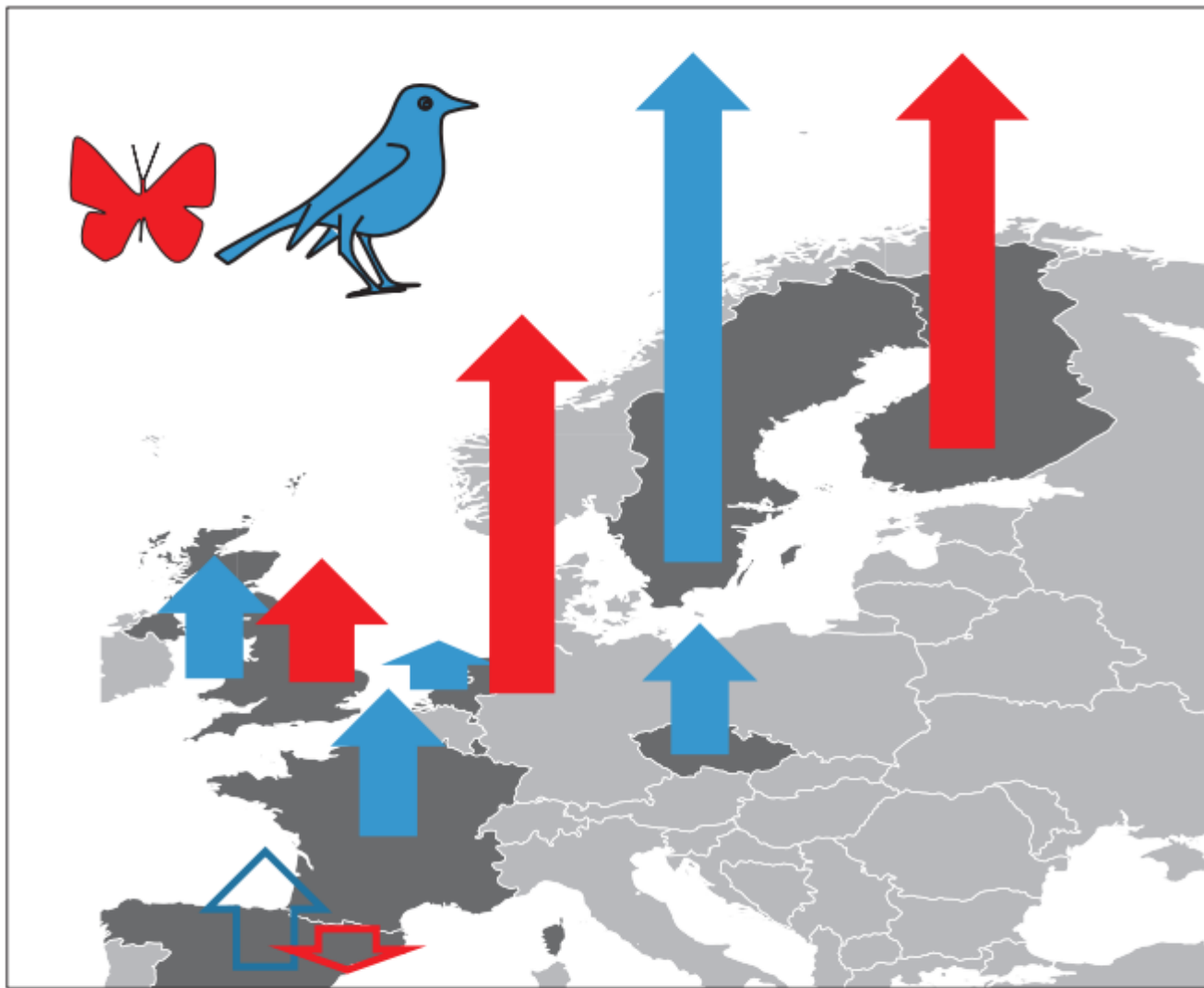
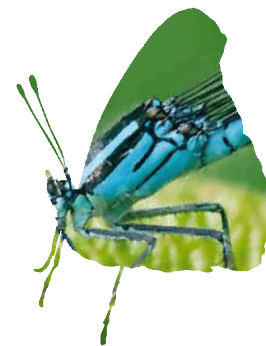
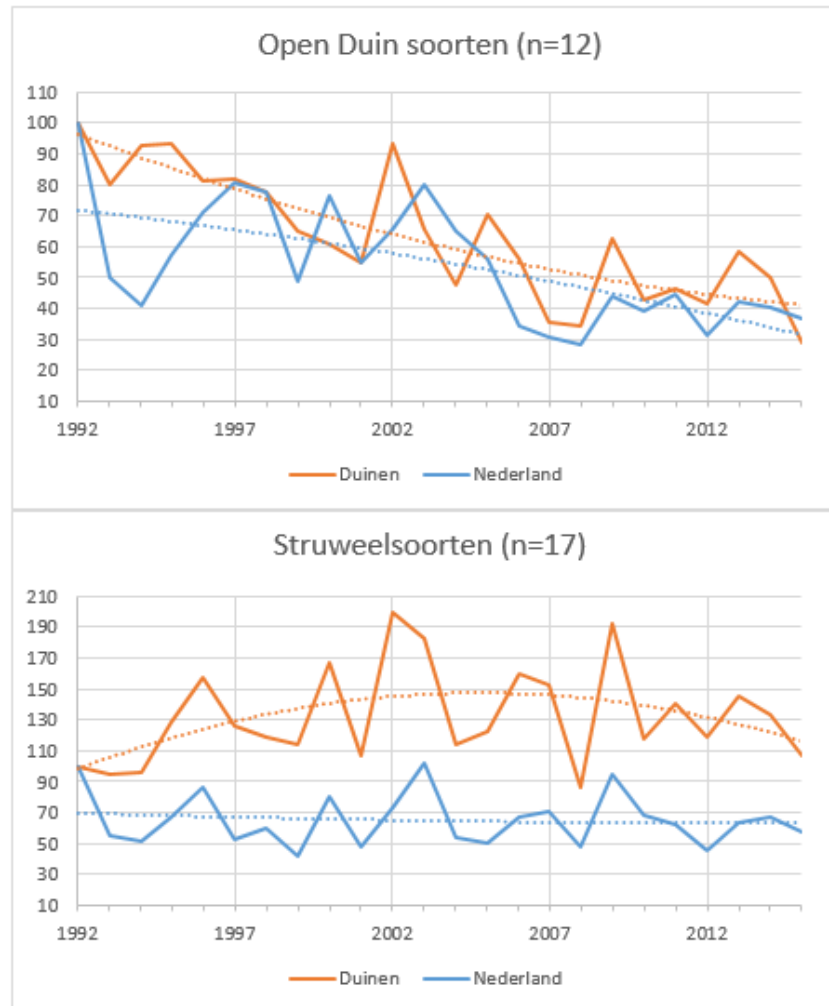


Figure 3 | European variations in the temporal trend of bird and butterfly CTI. The map shows the temporal trend of bird and butterfly CTI for each country. The height of a given arrow is proportional to the temporal trend and its direction corresponds to the sign of the slope (from south to north for positive slopes). The arrow is opaque if the trend is significant.

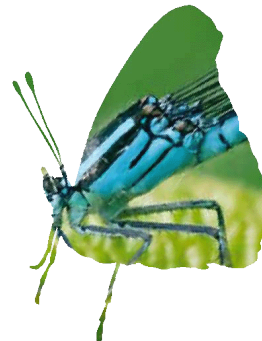


Vlindertrends in de Duinen

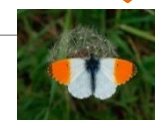
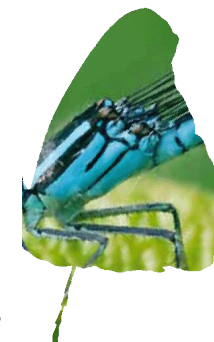
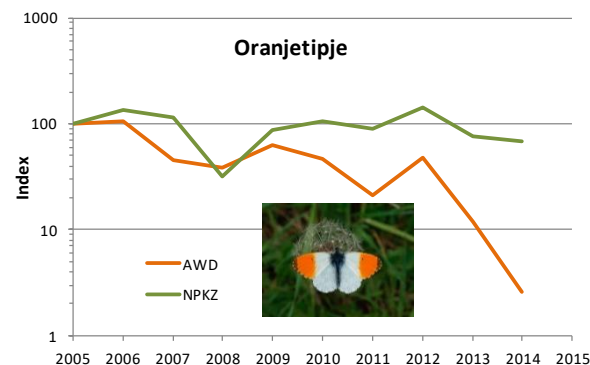
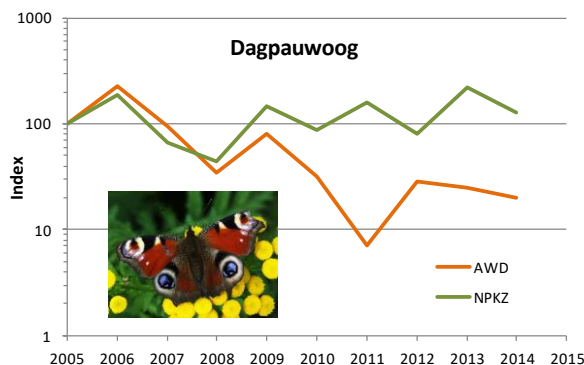
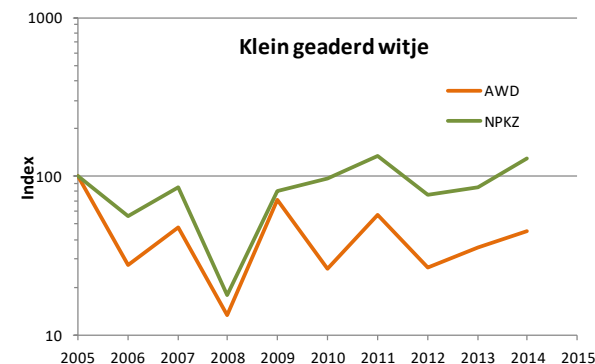
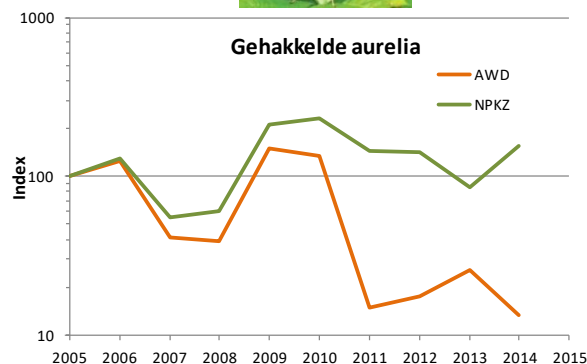
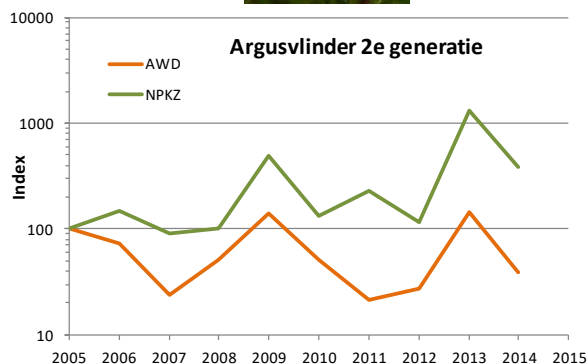
- vooral soorten van struweel(randen) doen het goed



Meetnet Vlinders
(CBS/De Vlinderstichting)

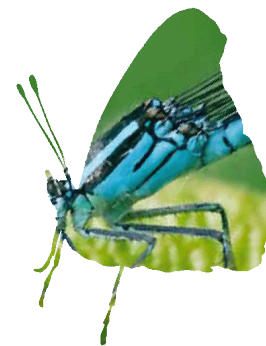


Vergelijking AWD – NPKZ



Vlindermonitoring voor Provincies

- Maatschappelijk draagvlak door vrijwilligers
- Onderdeel van groot netwerk
- Bruikbaar voor duiding, van lokaal tot provinciaal, landelijk en Europees niveau
- Gemeenschapsindicatoren (bijvoorbeeld voor klimaat) heel gevoelig
- Robuust voor de toekomst: eenmalige inwinning, meervoudig gebruik
- Al 28 meetjaren beschikbaar voor gebruik





De Vlinderstichting

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