

Raptor conservation in the Netherlands

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CENTRE



A photograph of Earth's horizon from space, showing a thin blue atmosphere layer against the black void of space. The planet's surface is visible with various green and brown landmasses and white cloud formations.

<https://vimeo.com/85808414>

Organisational structure of bird of prey conservation in the Netherlands

- ▶ Legal: Dutch legislation to implement the EU legislation: the Bird Directive
- ▶ Law enforcement, including Intervention Strategy Raptors + Task Force for persecution
- ▶ Measures on different spatial levels:
 - ▶ (a) National Nature Network
 - ▶ (b) Specific sites (Special Protected Areas of the EU Bird Directive) designated for raptor protection
 - ▶ (c) Nest protection
 - ▶ (d) Code of Conduct Forest Management
- ▶ Scientific research

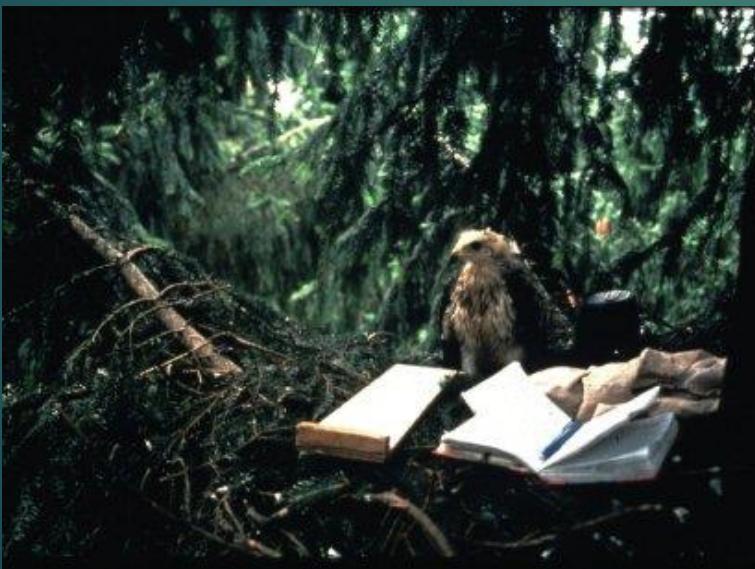
Monitoring long- and short term trends in population size and distribution

- ▶ SOVON Dutch Centre for Field Ornithology - **since 1973, Sovon has coordinated national surveys of wild bird populations in the Netherlands**
- ▶ **Netherlands Statistics** for independent verification of trend analysis
- ▶ Dutch Raptor Working Group – **breeding raptor surveys**
- ▶ Montagu's Harrier Foundation
- ▶ Peregrine Falcon Working Group

Raptor surveys

- Breeding bird surveys
- Nest success
- Prey remains
- Age of breeding birds





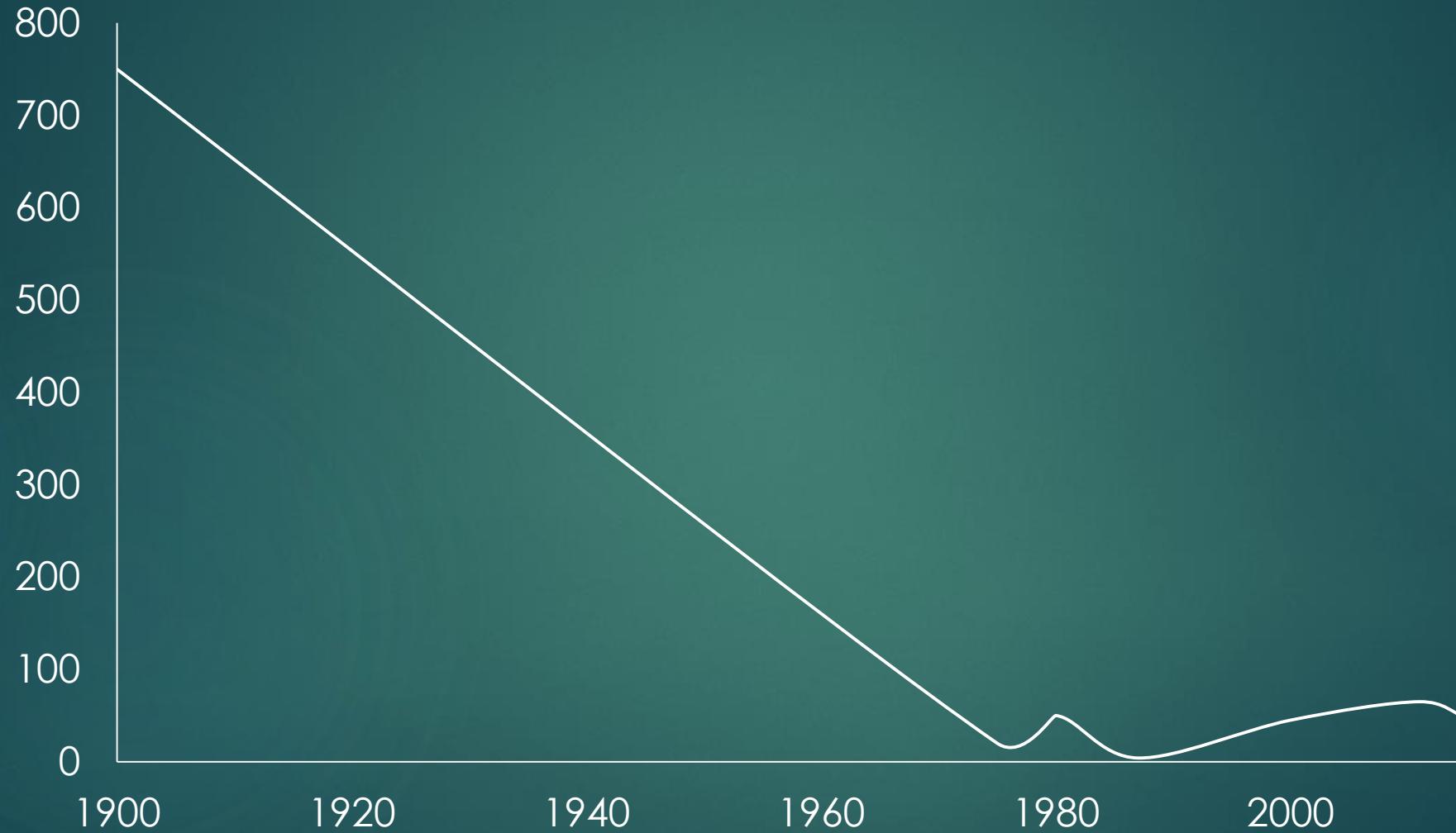
Species	Number (bp)	Trend past 10 years
Honey Buzzard	500-600	Declining
Red Kite	0-2	-
Black Kite	0-1	-
Marsh Harrier	1150-1250	Declining
Hen Harrier	4-6	Very strong decline
Montagu's Harrier	35-45	Stable
Goshawk	1800-2000	Declining
Sparrowhawk	3500-4500	Declining
Common Buzzard	8000-10.000	Stable
Common Kestrel	5000-7500	Declining
Hobby	750-1000	Stable
Peregrine Falcon	125-140	Strong increase
White-tailed Eagle	4-5	Increase

Montagu's Harrier

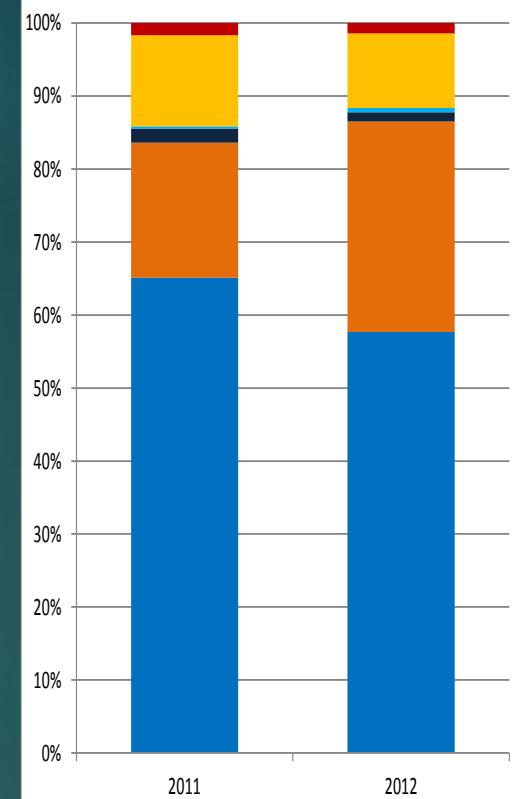
- ▶ Nest protection and land management for sufficient food resources
(field voles, small birds)



Montagu's Harrier population trend



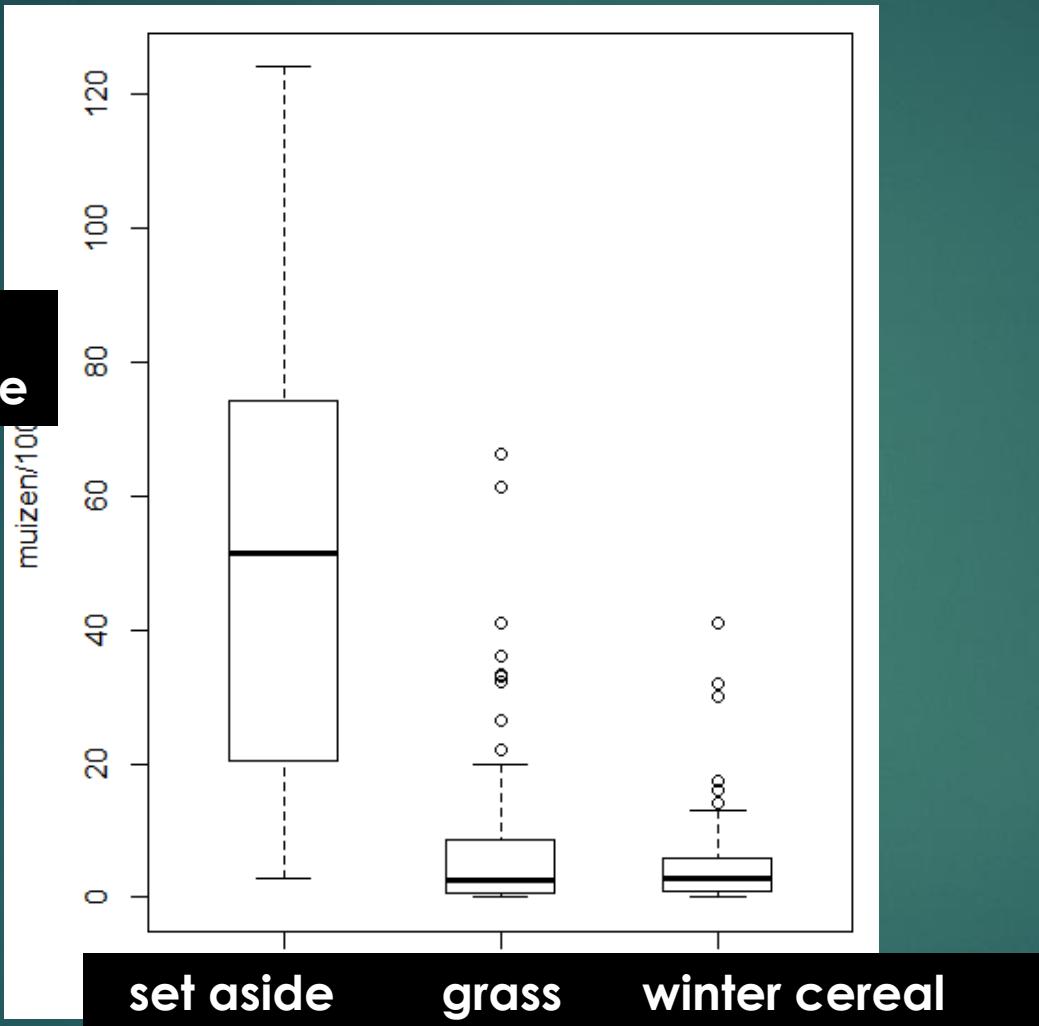




More voles in set-asides



Vole
abundance



Voles: 60% of prey

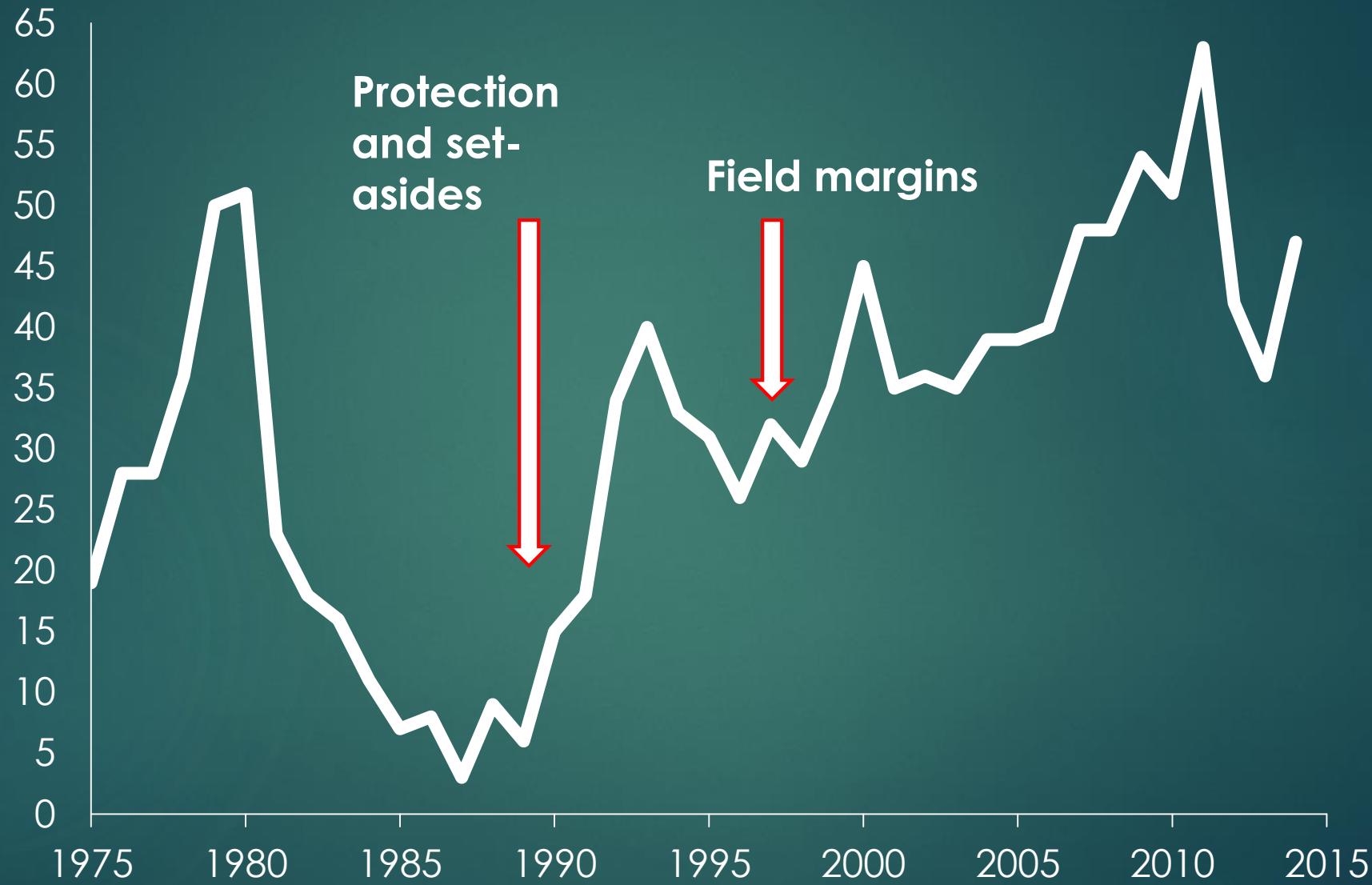




Volunteers and farmers help out



Breeding pairs

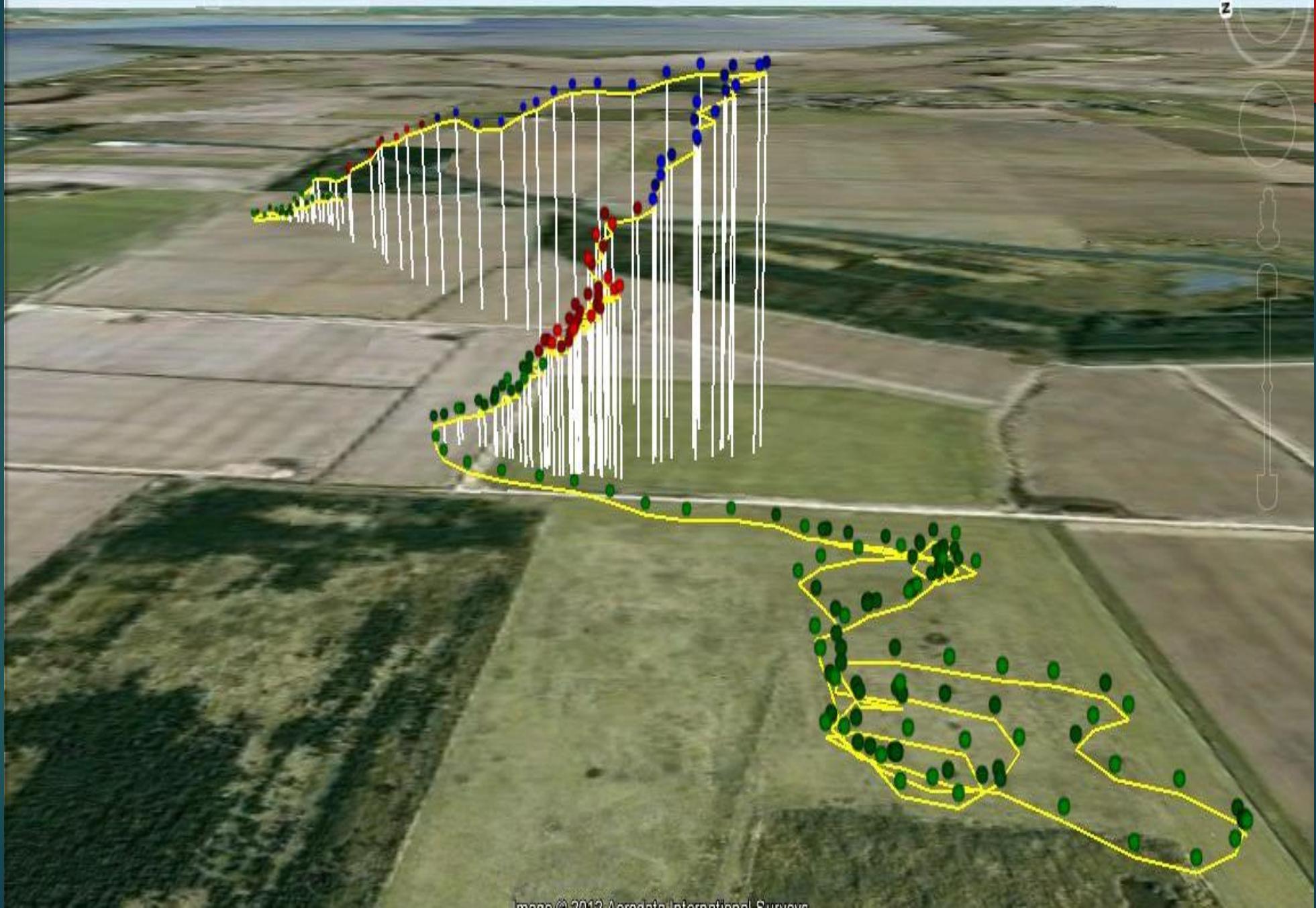


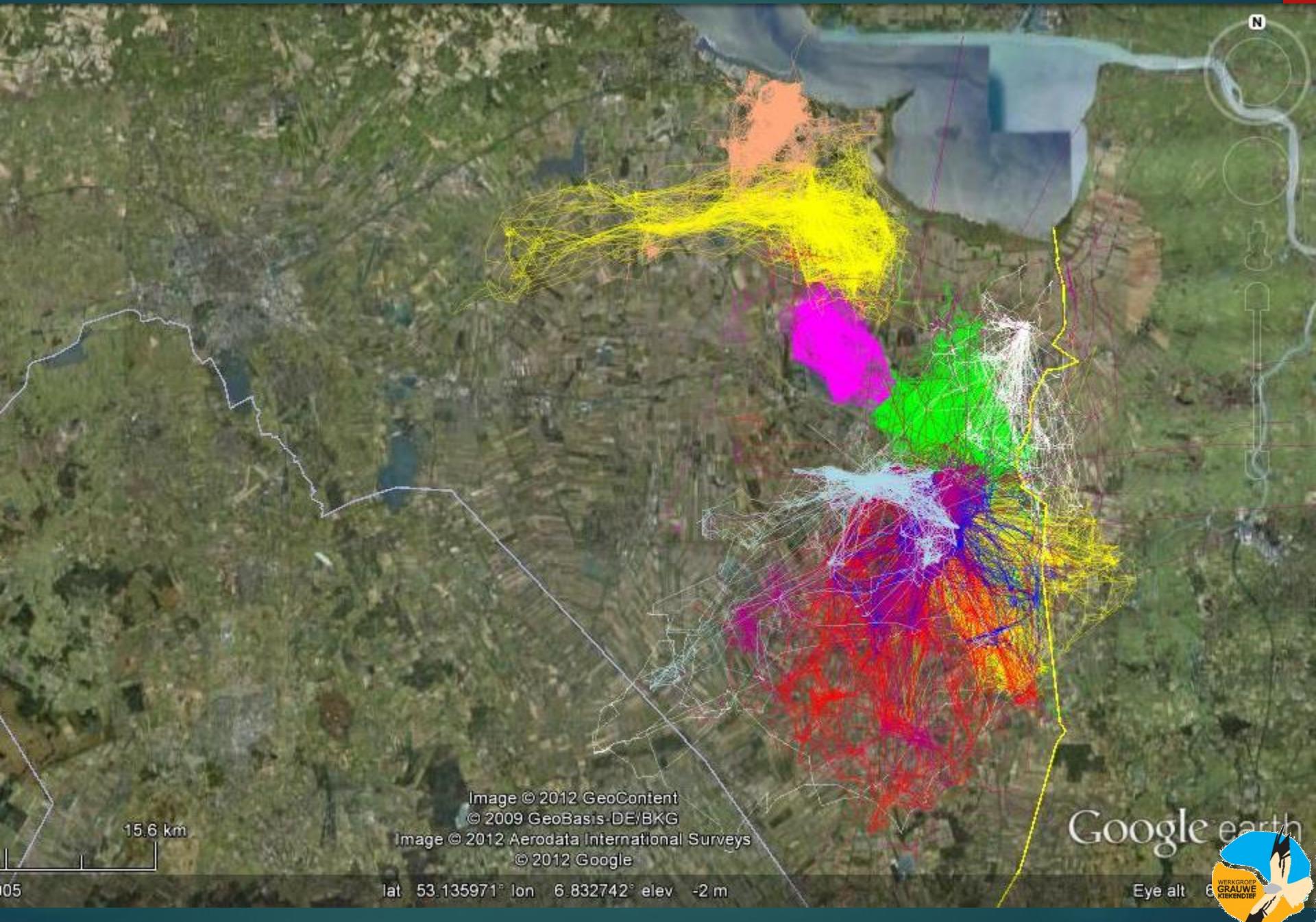


© Harold van der Meer

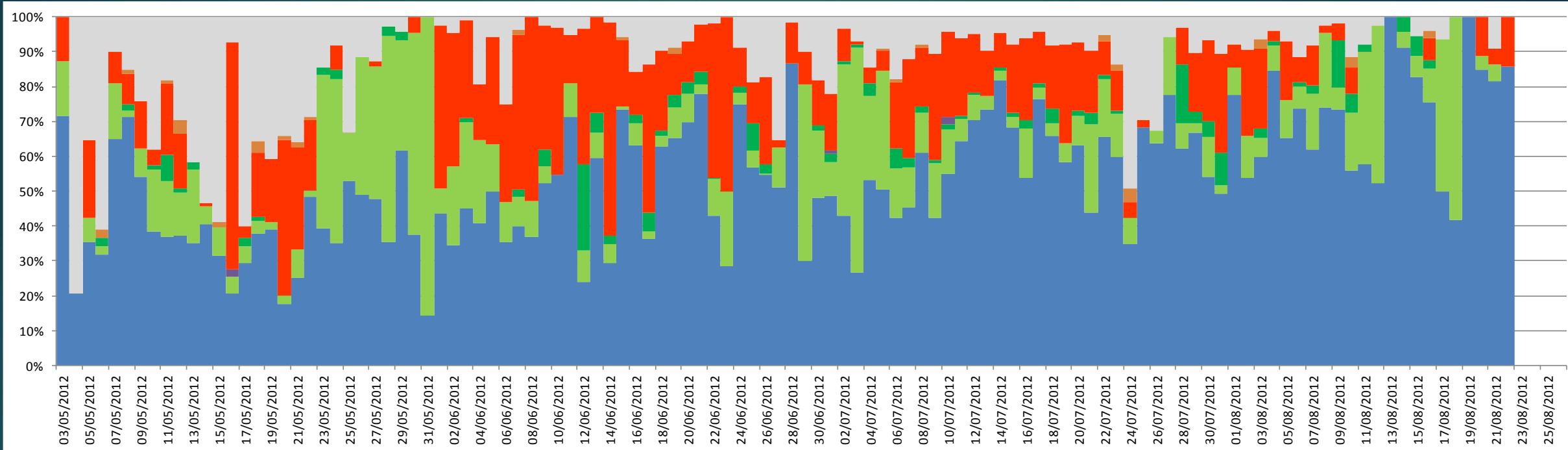


7/11/2011 11:37:16 am



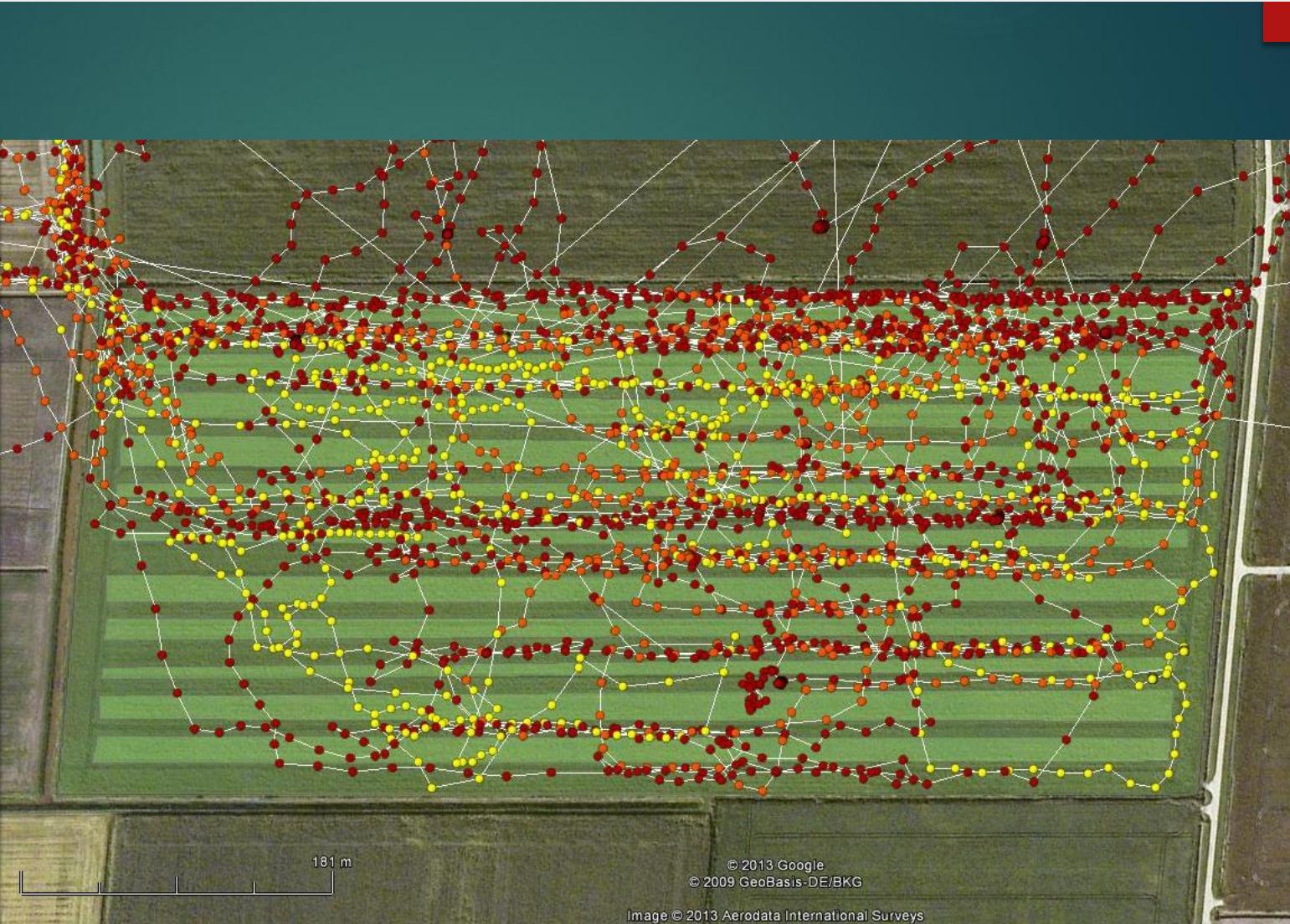


Habitat use



Blue = cropland, Green = grass/lucern, red = set-aside,
grey=unknown

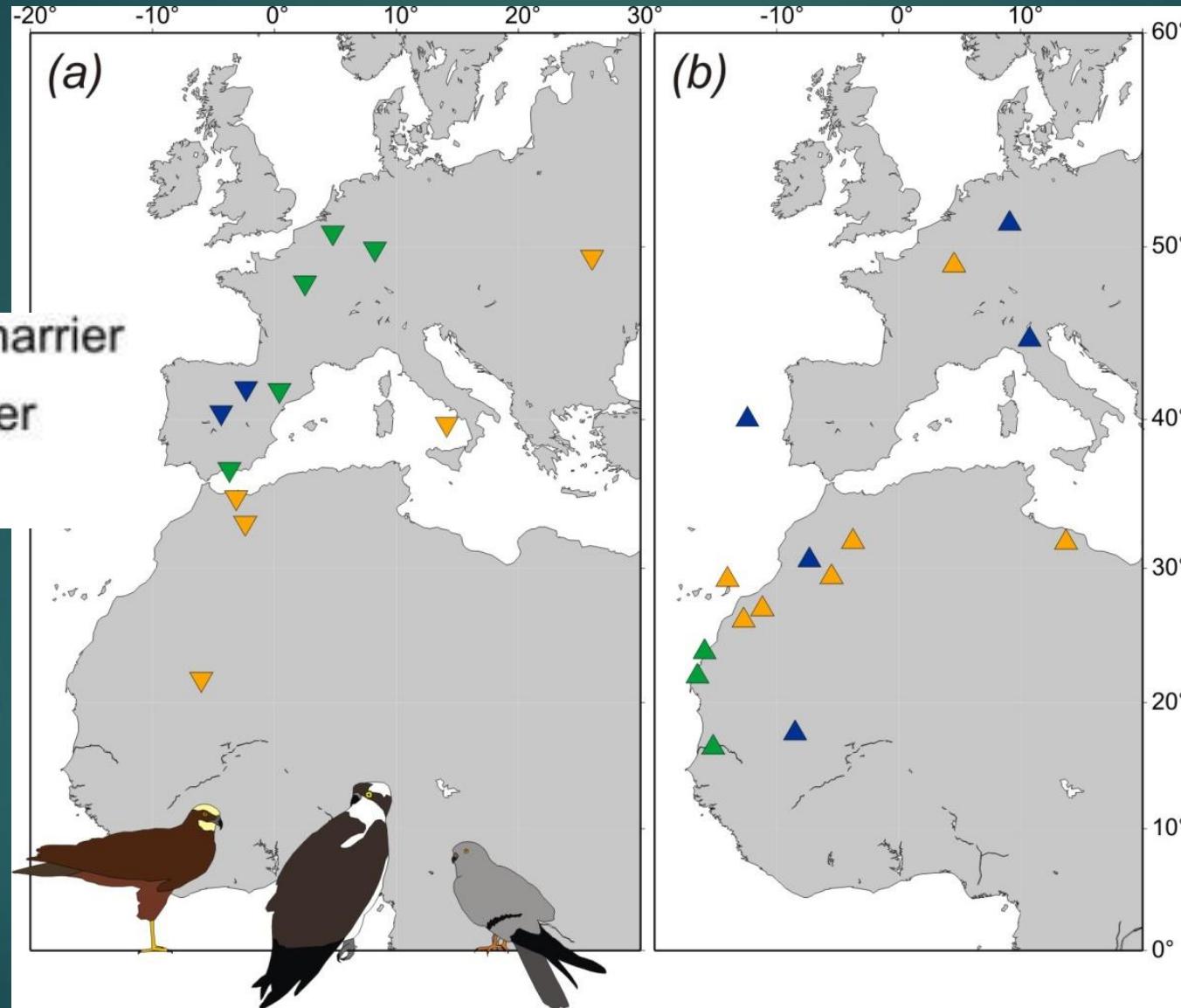








Mortality during migration



Klaassen et al. 2013
Daily mortality rates were about six times higher during migration than during stationary periods (breeding and wintering)

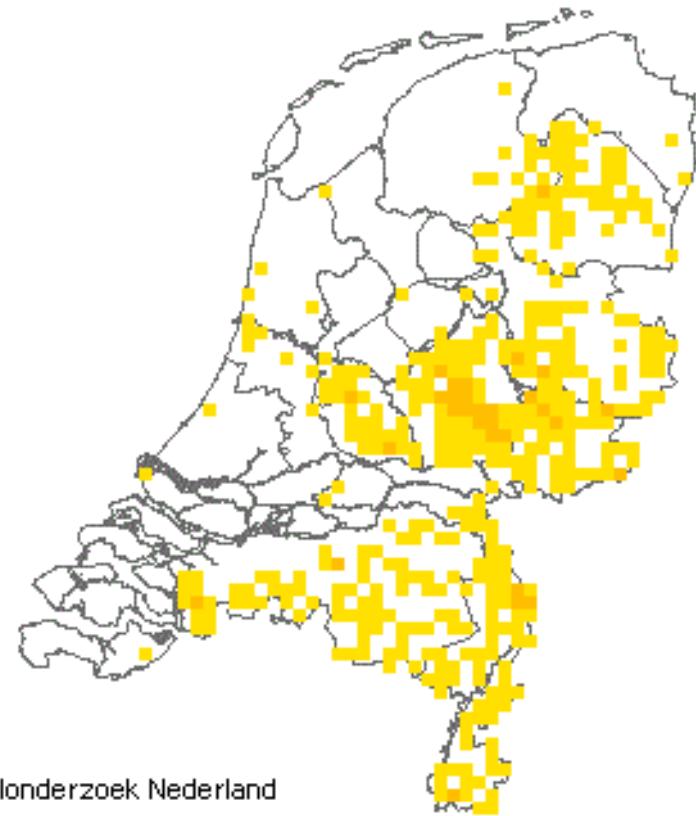
Honey Buzzard



Wespendief

broedvogels
verspreiding
1998-2000

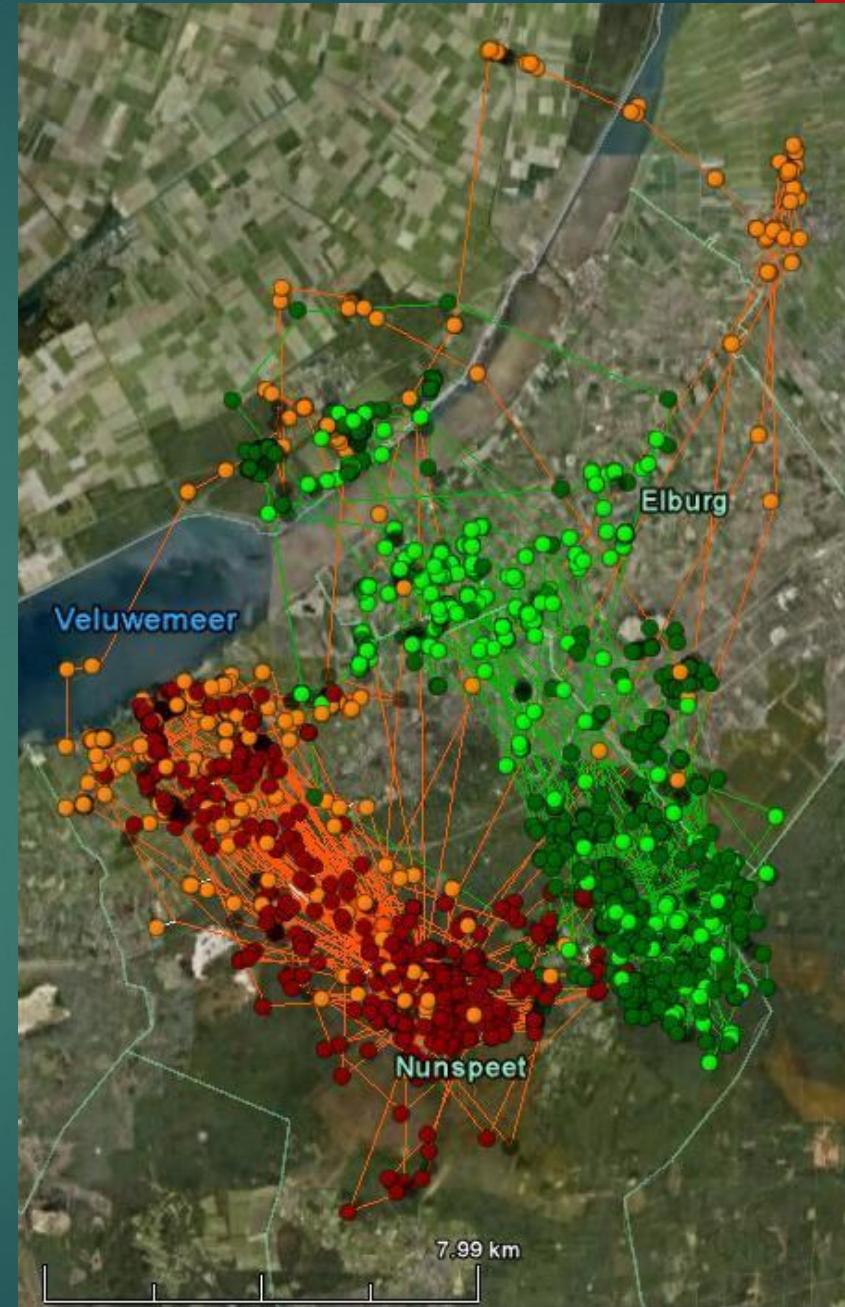
- 1 - 3
- 4 - 10
- 11 - 25
- 26 - 100
- 101 - 500
- > 500



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Honey Buzzard

- ▶ Forest management is important





White-tailed Eagle

- ▶ From zero to five pairs the past decade



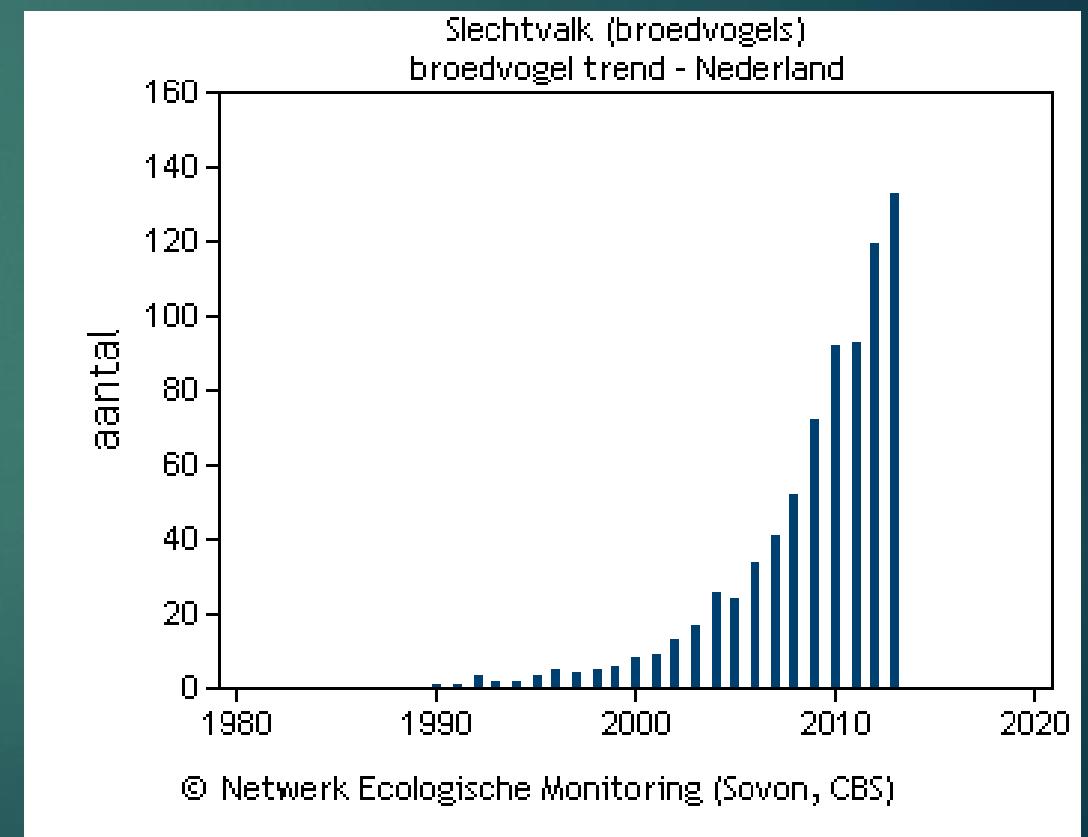


White-tailed Eagle wind turbine victim 2008



Peregrine falcon

- ▶ From zero to 140 pairs since 1990



Peregrine falcon

- ▶ Hybridization
- ▶ Disturbance
- ▶ Persecution



Persecution

- ▶ Persecution is on the rise the past decade
- ▶ More than 200 raptor nests disturbed per year (0-3% of total per species)
- ▶ Mainly by hunters (87% of police reports)
- ▶ Meadow bird conservationists, pigeon keepers, falconers also involved
- ▶ Very few cases solved – low fines
- ▶ Difficult to catch perpetrators

Persecution

Source: CVI, WRN

	poison	trap/killed	shot	nest disturbance	TOTAL
1975-1988	621	2	69	145	837
1995-1999	518	27	55	403	1003
2000-2005	195	4	6	433	638
2005-2010	168	3	23	578	772
2011	16	0	4	93	113
2012	2	0	0	93	95
2013	11	1	9	60	81
2014	6	0	7	30	43

Persecution

Task Force

- ▶ Sovon, Dutch Raptor Working Group
- ▶ Central Veterinary Institute
- ▶ Police force
- ▶ Local informant networks
- ▶ Nature conservation societies
- ▶ Royal Dutch Hunting Association











Consequences of persecution:

- Lower breeding success
- Local decline



Gezocht:torenvalk

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enz. (en ook eventueel een handschoen)

Prijs in overleg

koppel torenvalken

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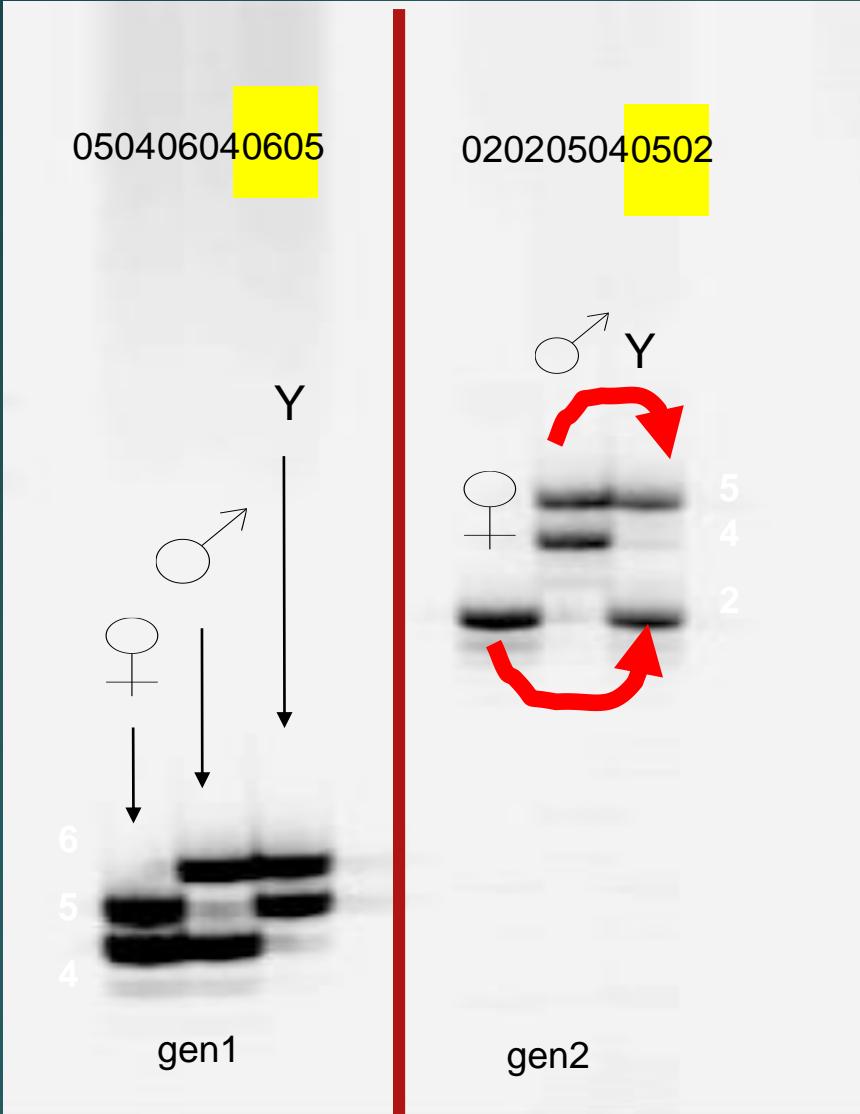
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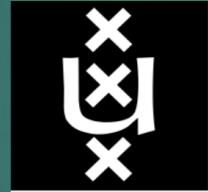
zeer mooi broed koppel torenvalken groot soort de tarsel is 5 en wijf 4 jaar oud
heb meerdere jongen gehad



Important impacts and focus of future strategy

- ▶ Persecution/poisoning (aldicarb, carbofuran) – intervention strategy + task force
- ▶ Intensification of agriculture – agricultural land management for species conservation
- ▶ Wind turbines – future risk?
- ▶ Forest management – Code of Conduct

Acknowledgements



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