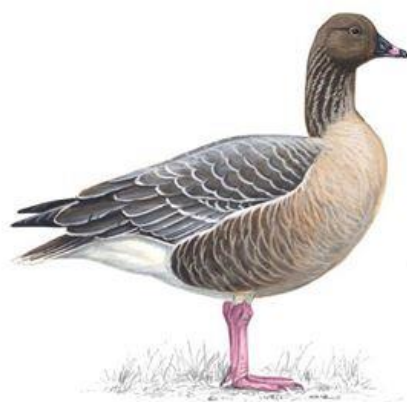


WATERBIRD COUNTS IN DENMARK

WITH SPECIAL EMPHASIS ON EGMP GOOSE MONITORING



AEWA



AEWA European Goose
Management Platform

WHERE IT ALL BEGAN



INTERNATIONAL
WATERBIRD CENSUS
LET'S MAKE IT COUNT

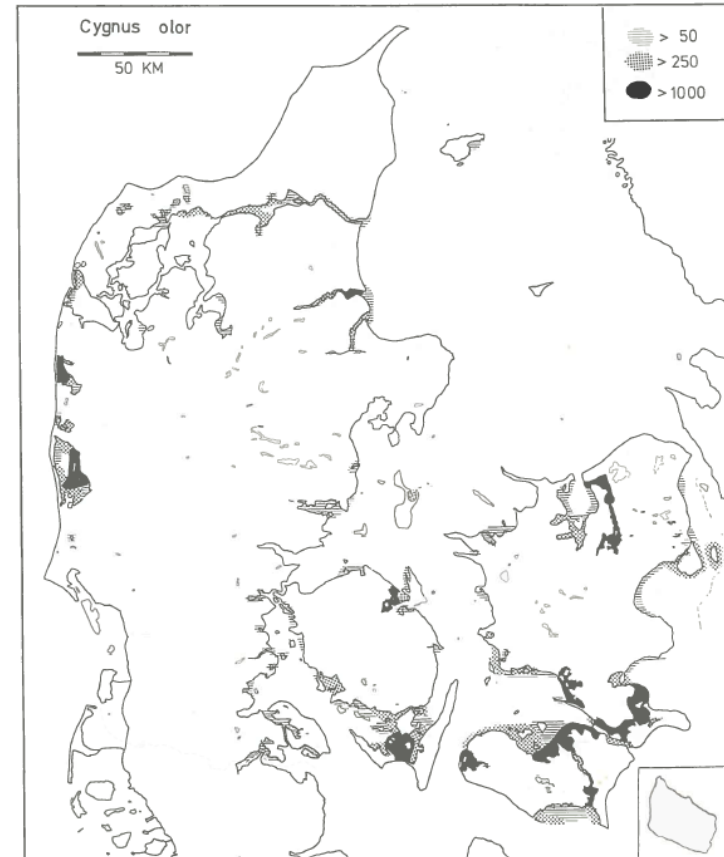
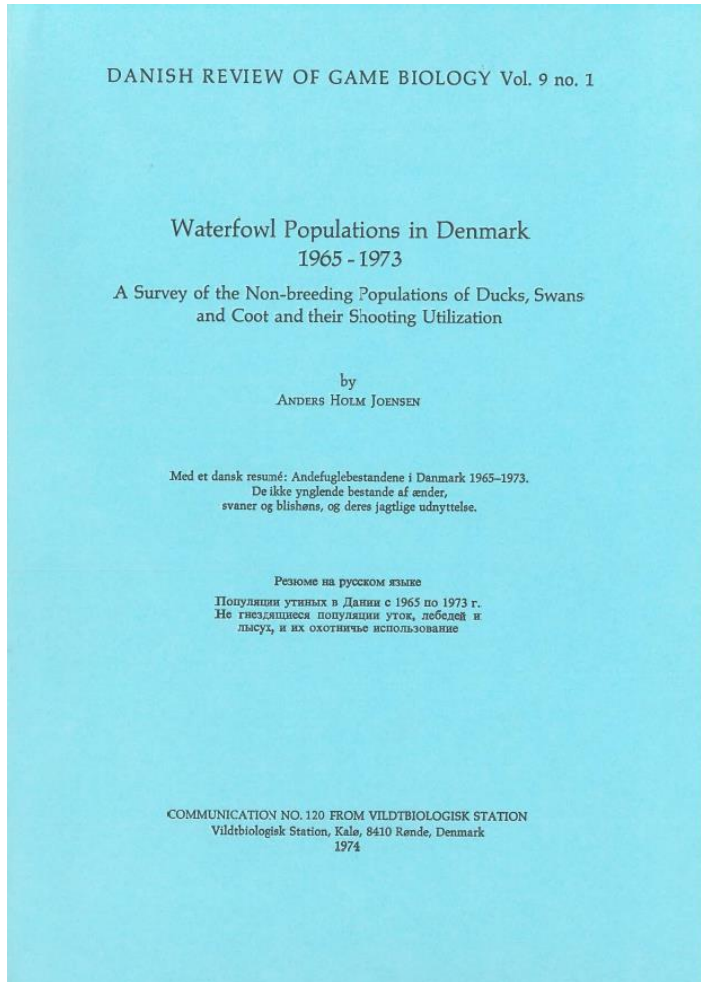


Fig. 64. Summary map for *C. olor* showing areas where flocks of more than 50, 250 or 1,000 birds respectively are found regularly during autumn, winter and spring.

WATERBIRD COUNTS IN DENMARK NOW

- › Under the NOVANA programme (National Monitoring and Assessment Programme for the Aquatic and Terrestrial Environment) since 2004
- › Multiple purposes, on request from :  **Ministry of Environment of Denmark**
- › Covering 48 species of breeding birds – listed in Annex 1 of the EU Birds Directive
- › and 68 species of passage/wintering waterbirds

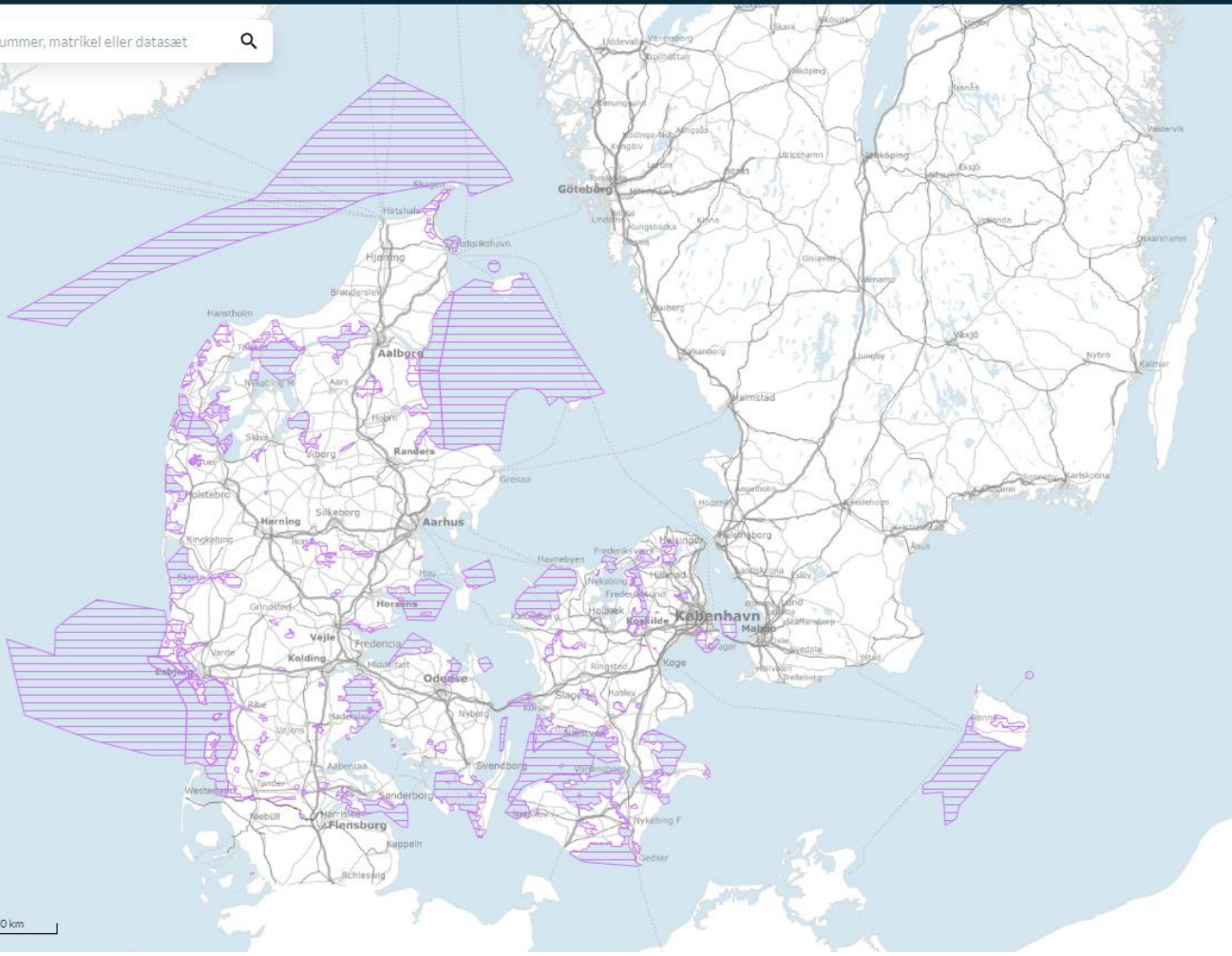
MONITORING 125 EU SPA'S

Arealinformation
Danmarks Miljøportal

Søg adresse, BFE-nummer, matrikel eller datasæt

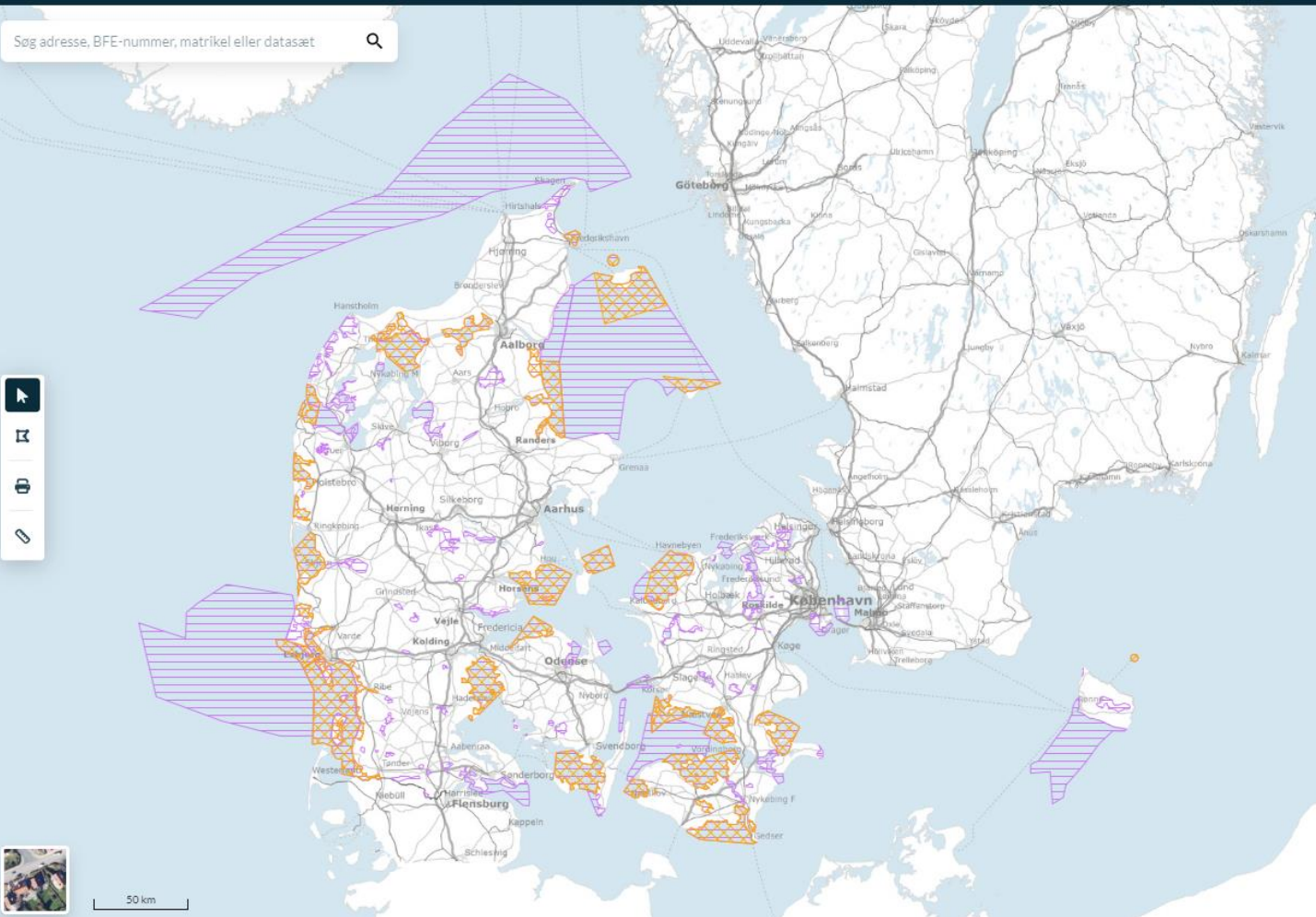


50 km

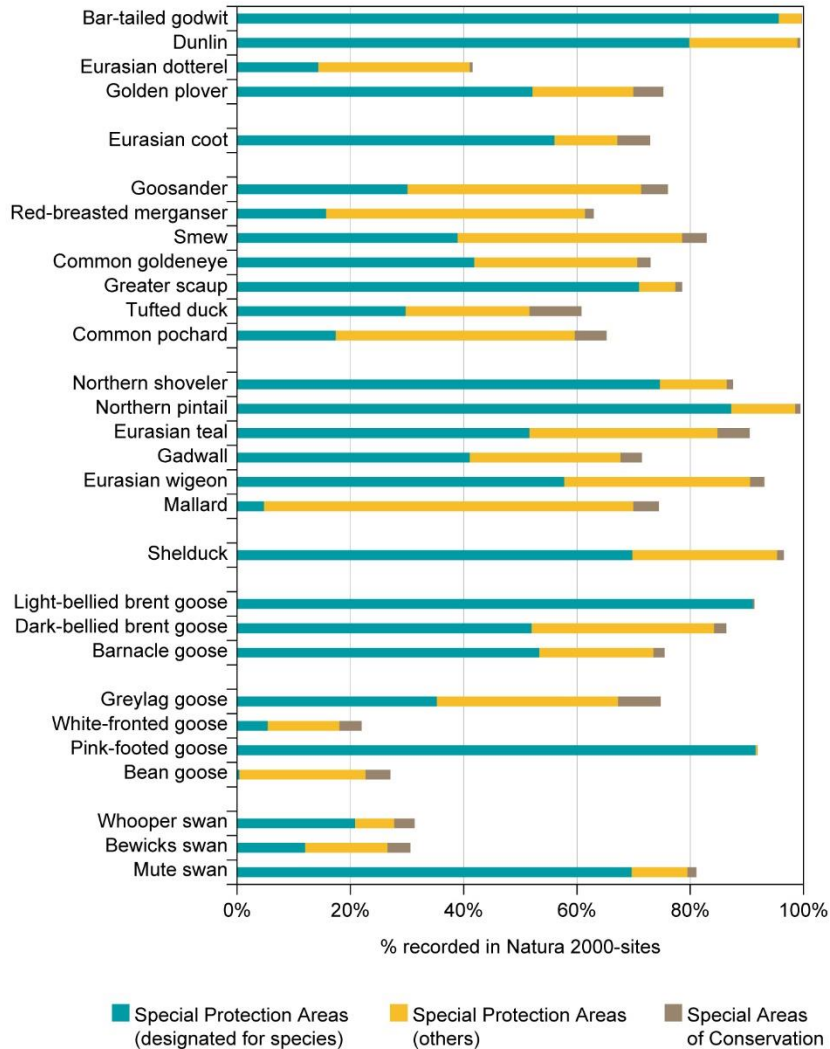


... AND 28 RAMSAR SITES

Arealinformation
Danmarks Miljøportal



EU BIRDS DIRECTIVE ARTICLE 12 REPORT



> National population estimates

> Trends of these

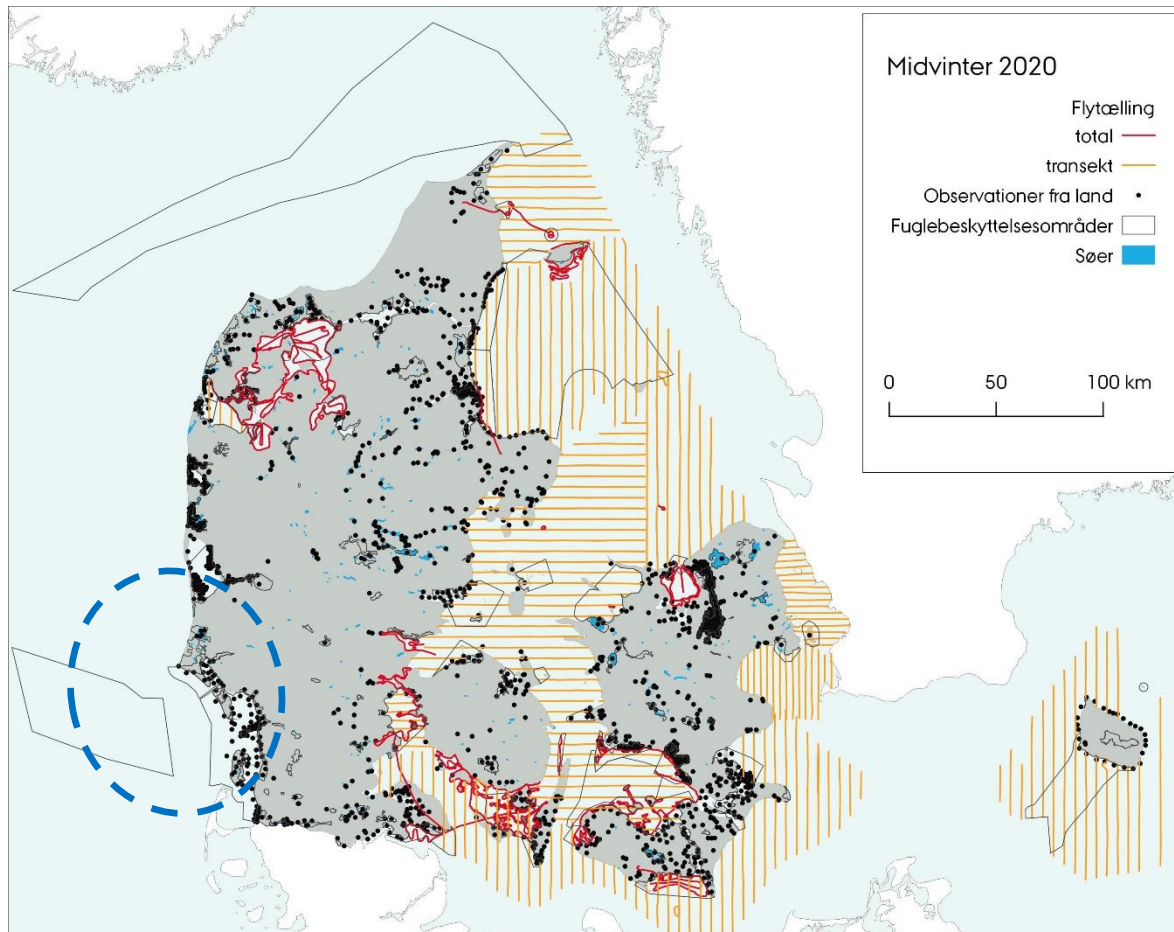
> % of these in SPA's

> Dataflow -> AEWA CSR



COMPLETE NATIONAL CENSUSES

› Regular – but not annual complete censuses



Midwinter 2020 census map:

Dots: Landbased count sites

Red lines: Aerial total count sites

Orange lines: Aerial transect survey lines (Distance sampling)

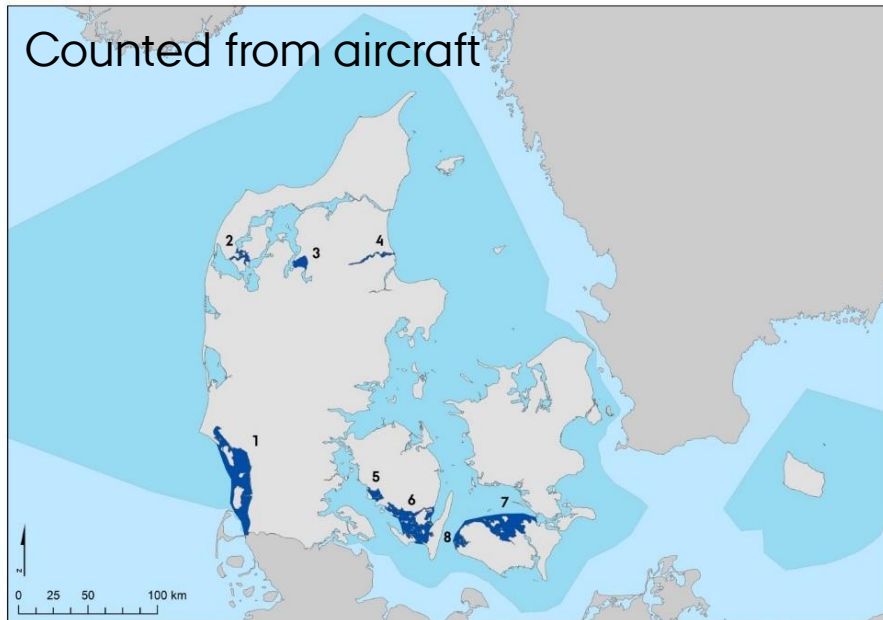
Midwinter 2023 census map:

Would be almost similar – but with aerial surveys also in the Wadden Sea and transects offshore SW of Denmark

Black Scooters!!

WATERBIRD TRENDS IN DENMARK

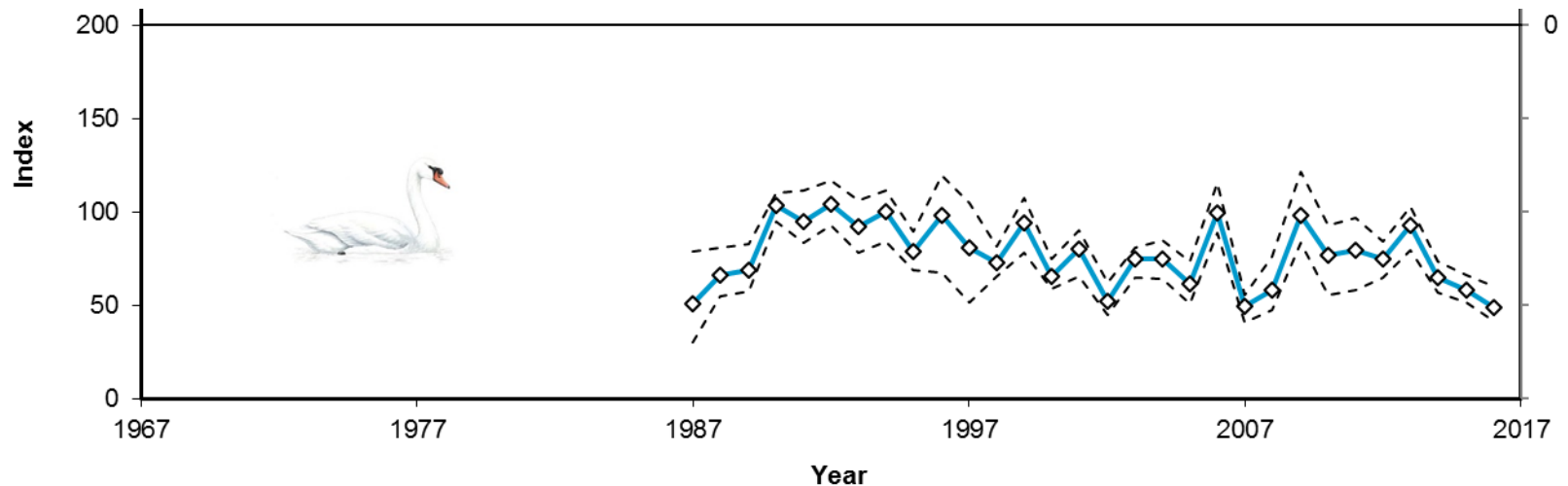
- › Since 1987 annual 'reduced site network'
International Waterbird Census counts in 49 sites now 118
- › These are the IWC sites -> Wetlands International



IWC SITES TRENDS

> example Mute Swan

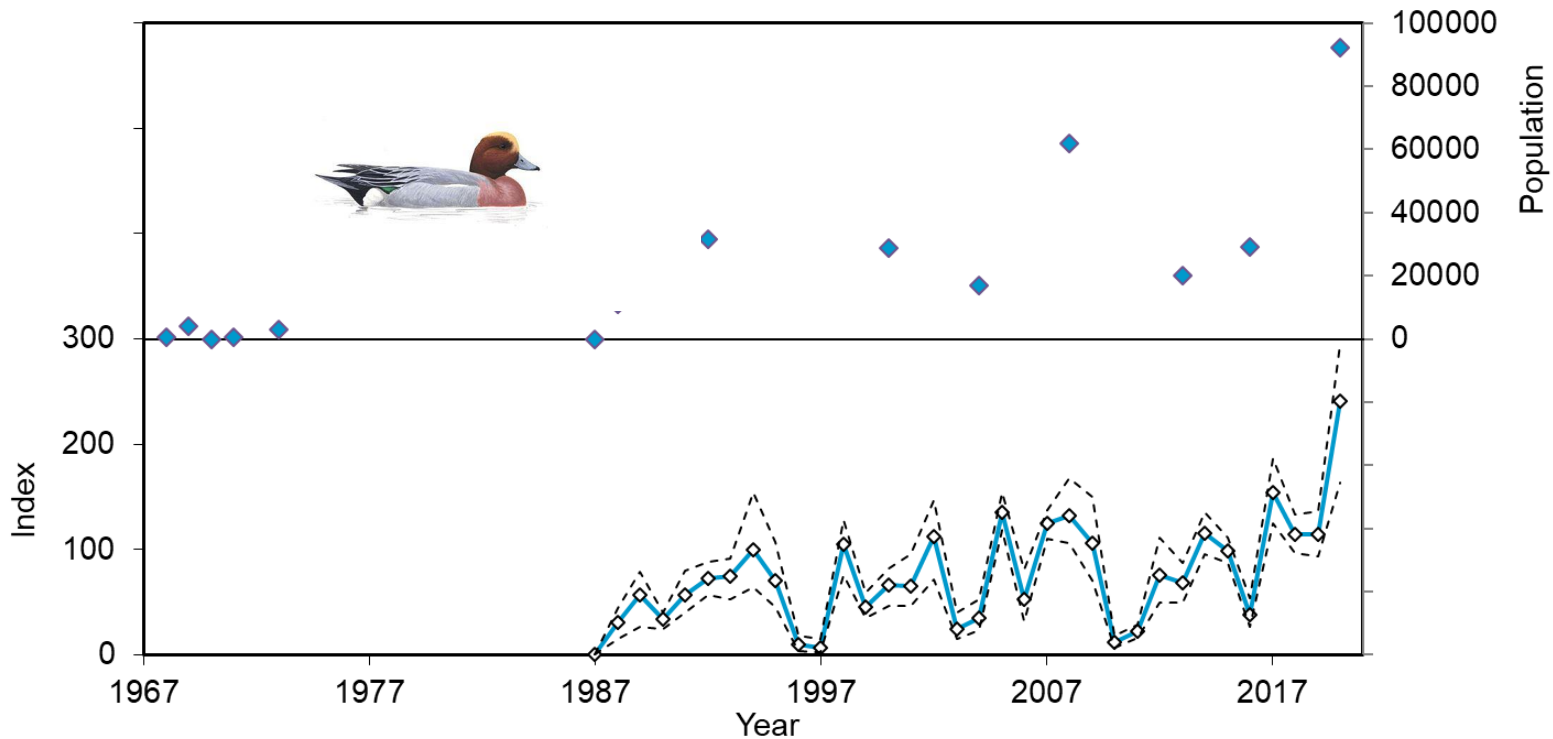
> Stable population, with smaller numbers following severe winters in the early-mid 1980's and some relatively cold winters recently



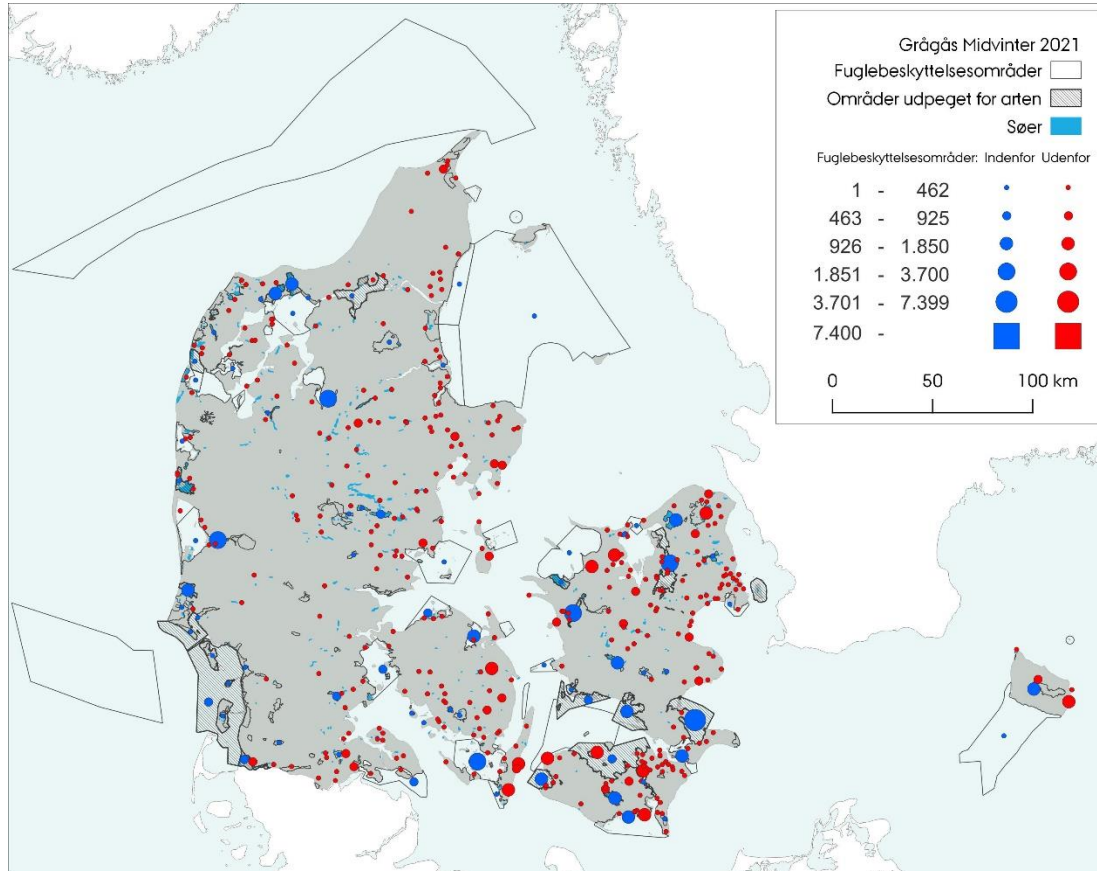
COMPLETE NATIONAL CENSUSES

> example Wigeon

> Increasing population – in 2023 more than Mallard!

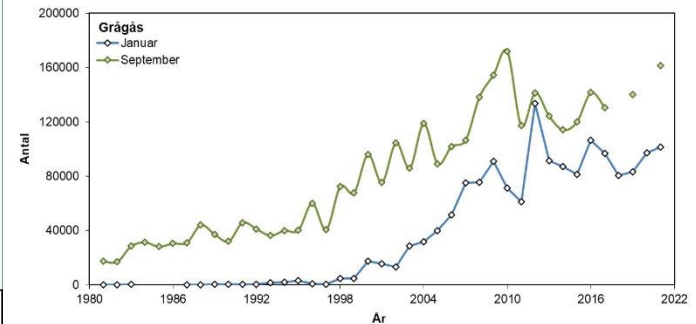


BUT FOR GEESE – ANNUAL COMPLETE NATIONAL CENSUSES



> Starting in 1981

> IWC network not sufficient coverage



Fugle talt i alt:	101.515	Procentandel:	Firkantet signatur: Antallet overstiger
Heraf talt i fuglebeskyttelsesområder:	43.796	43,1%	gældende 1%-bestandskriterium
Heraf talt i fuglebeskyttelsesområder udpeget for arten:	21.476	21,2%	(Vandfugleaftalens CSR8)
Fugle talt i fuglebeskyttelses- og habitatområder (Natura 2000)	51.351	50,6%	Kriteriet for bestanden er: 7.400

GEESE – SCHEDULES FOR COMPLETE NATIONAL CENSUSES

> Current 2022-2027 NOVANA 6 year period

NOVANA count months by year								
Month	2022	2023	2024	2025	2026	2027	Focal species	Note
January							All goose species (all waterbirds)	
February								
March							Barnacle and Pink-footed Goose	
April							Light-bellied Brent Goose	(almost Dark-bellied because of mandatory sites)
May							Dark-bellied Brent Goose	(also Light-bellied because of mandatory sites)
Juni								
Juli								
August							Greylag Goose	replacing September count
September								
October							All goose species (all waterbirds)	Greylag, (Barnacle), the two Brent Geese
November							Pink-footed Goose	
December								

- > October new annual – all waterbird species count
- > August new "every second year" count

AD HOC - NATIONAL CENSUSES OF PINK-FOOTED GOOSE (NOVEMBER AND MAY)

› "Live transmission"

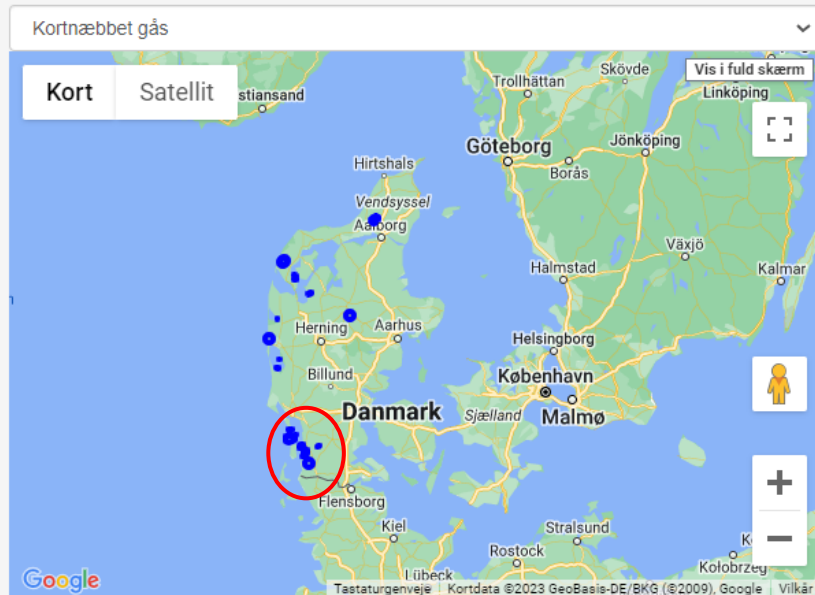
Count this weekend

2023 november vandfugletælling

11. november 2023 - 19. november 2023

NOVANA programmets novembertælling af vandfugle er en tælling som omfatter pipesvane, kortnæbbet gås og sædgås (landsdækkende) samt målrettede regionale tællinger af hvinand og toppet skallesluger.

I Vadehavet udføres tællingen dog som en totaltælling af alle vandfuglearter i perioden 8. - 15. november pga. tidevandet.



Tilmeldt

So far 26,500 Pink-footed
Geese typed in

20,035 north of the Wadden Sea

Bean Geese coming in

But these are day-time Wadden
Sea counts – will be replaced by
night-roost counts

ORGANISED THROUGH OUR INHOUSE WWW.FUGLEDATA.DK WEBSITE

Forside / Tællinger / 2023 midvinter vandfugletælling

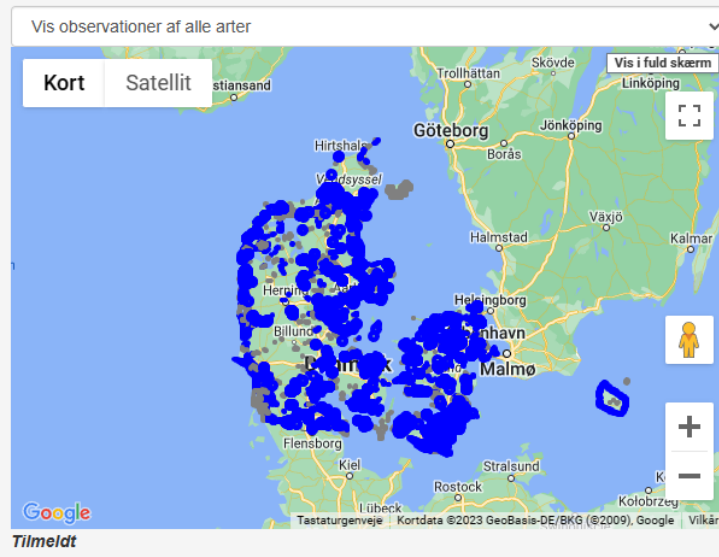
2023 midvinter vandfugletælling

7. januar 2023 - 22. januar 2023

NOVANA programmets midvintertælling er i 2023 en landsdækkende optælling af vandfugle, hvor alle vandfugle optælles. Vi ser også gerne at rovfugle indrapporteres. Kombineret land- og flytælling.

Den udføres i 2023 ideelt i weekenden **14.-15. januar – i Vadehavet dog ved springflod 21.-22. januar.**

Midvintertællingen bidrager til **International Waterbird Census** og dermed til opgørelse af bestandsstørrelser og –udviklinger for vandfuglebestande, der overvintrer i Nordvesteuropa. I 2023 bidrager den også til **East Atlantic Flyway Initiative**.



Egne observationer vises med rødt
 Andres observationer vises med blå
 Områder hvor der endnu ikke er indtastet observationer vises med grå

Arter Observatører

Indtast

Optalt i alt: 1.349.657

- Agerhøne - 10
- Alk - 2.759
- Alk/lomvie - 147
- Allike - 1.552
- Almindelig ryle - 33.393
- Anden art - 1
- Bjergand - 6.542
- Bjergirisk - 1.773
- Bjerglærke - 89
- Blisgås - 20.464
- Blisshøne - 116.938
- Blå kærhøg - 125
- Blåmejse - 50
- Bomlærke - 136
- Bramgås - 253.352
- Brushane - 1
- Canadagås - 8.038
- Dobbeltbekkasin - 64
- Dværgfalk - 3
- Dværgmåge - 48
- Ederfugl - 60.251
- Engpiber - 14

- > Counters sign up (or rarely sign out)
- > 125+ counters are assigned to their specific count units
- > Counters type their data
- > Counters ask for "driving money"
- > 1.4 mio. birds in January 2023

SUPPLEMENTED WITH DATA FROM DOFBASEN.DK

> Focus point announcements

DOFbasen

DOFbasen Observationer Lister Kontakt Links **Bruger**

LOKALITETER MED FUGLEOBSERVATIONER

i dag i går

Klik på d
Kortet opdateres t

OM DOFBASEN

- DOFbasen er [Dansk Ornitologisk Forening](#)s (DOF) database over observationer af fugle
- Alle kan indtaste og udsøge data i DOFbasen ([når man er oprettet som bruger](#))
- Der sker løbende [kvalitetssikring af data](#) i DOFbasen
- DOFbasen er grundlaget for dataindsamlingen i [DOFs projekter](#), og dermed [fugle- og naturbeskyttelse i Danmark](#)
- Der kan indtastes på **20744** lokaliteter i DOFbasen
- Der er **32.916.105** observationer i DOFbasen
- DOFbasen anvender cookies. Dette accepterer du, når du bruger siden. [Læs mere.](#)

Geese and swans November 2023

In and around the weekend 18-19 November a count of pink-footed geese, taiga bean geese, tundra bean geese and Bewick's swans is conducted under the NOVANA programme – all of which support the work with the management plans under the African Eurasian Waterbird Agreement (AEWA). Many localities are covered by permanent observers, but we would like to encourage all DOFbasen contributors to be careful in registering occurrences of the three species in the coming days, preferably with positions.

Distinction between foraging/resting flocks and roosting flocks is important, so use the correct codes of behaviour.

Feel free to indicate the birds' habitat choice in the note field: Maize stubble field, cereal stubble field, cereal unharvested, winter cereal (it is difficult to tell the difference between winter wheat, rye, and barley), grass seeds (field crop), perennial grass (field, typically fenced), meadow (dry), flooded meadow, potatoes - stump, potatoes - unharvested, carrots, beetroot, oil-seed rape, lake, estuary, stream, other (write what).

EGMP GOOSE MONITORING WORKSHOP
DRAGØR, DENMARK

22-23 NOVEMBER
2023

PICKING SUPPLEMENTARY DATA AND DATES FROM DOFBASEN

Januar 2023		
S	1	Nytårsdag
M	2	1
T	3	
O	4	
T	5	
F	6	
L	7	
S	8	
M	9	2
T	10	
O	11	
T	12	
F	13	
L	14	
S	15	
M	16	3
T	17	
O	18	
T	19	
F	20	
L	21	
S	22	
M	23	4
T	24	
O	25	
T	26	
F	27	
L	28	
S	29	
M	30	5
T	31	

Our two week census period

-> dictates DOFbasen data down-load

← IWC census weekend

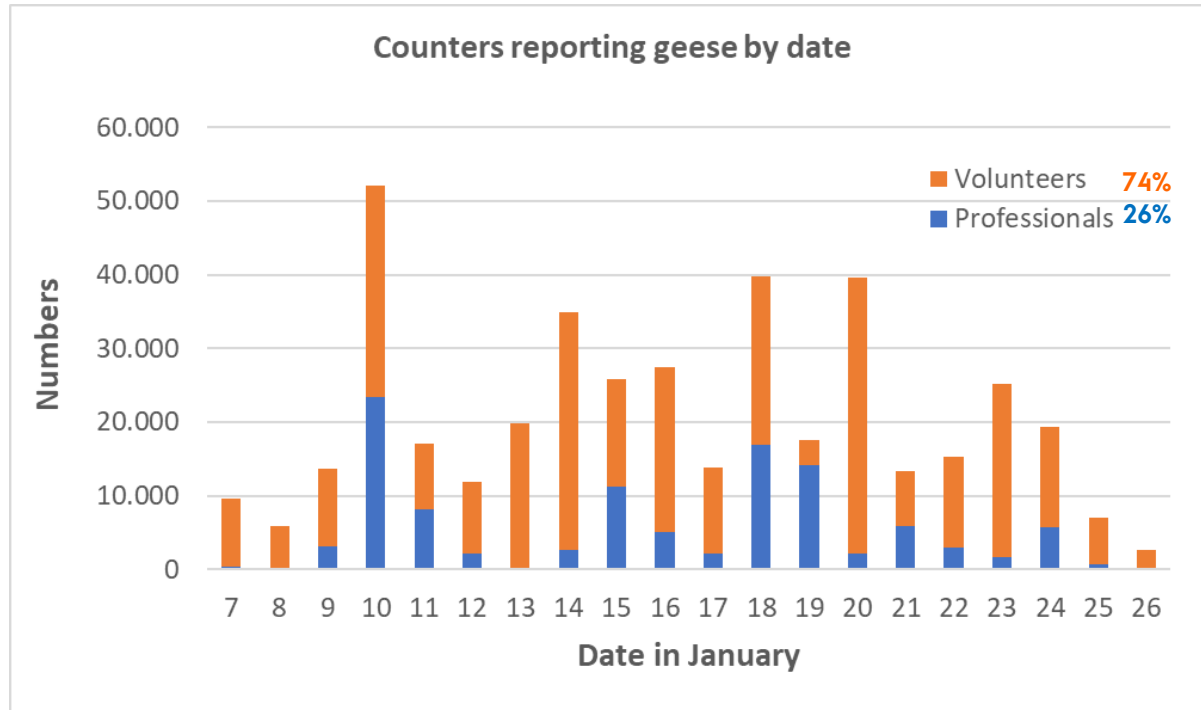
← But Wadden Sea (optimal tides!) ALL covered by our observer network

DOFbasen

DOFbasen	Observationer	Lister	Kontakt	Links	Bruger
SØG I DOFBASEN					
Periode:	<input type="text" value="Datointerval"/>				
Fra dato/til dato:	<input type="text" value="07-01-2023"/>	<input type="text" value="Dato"/> <input type="text" value="22-01-2023"/>	<input type="text" value="Dato"/>		
Observationstype:	<input type="text" value="Observationer"/>				
Fugle/andre dyr:	<input type="text" value="Fugle - alle"/>				
Område:	<input type="text"/>				
Art/artsgruppe:	<input type="text" value="Artsinterval"/>				
Fra art:	<input type="text" value="Lom sp."/>	<input type="text" value="Find art"/>			
Til art:	<input type="text" value="Alkefugl sp."/>	<input type="text" value="Find art"/>			
Antal:	<input type="text"/>				
Adfærd/alder:	<input type="text"/>				
Dragt/køn:	<input type="text"/>				
Bilag 1/rødlisten:	<input type="text"/>				
Summering:	<input type="checkbox"/>				
			Andre indtastere: <input type="checkbox"/> Medobservator: <input type="checkbox"/> Observator: <input type="text"/> Billeder: <input type="checkbox"/> IBA-kriterium: <input type="checkbox"/> Kommentarer: <input type="checkbox"/> Største forekomst: <input type="text"/> Tekststreng: <input type="text"/> Sortering: <input type="text" value="Dato"/>		
SØG					

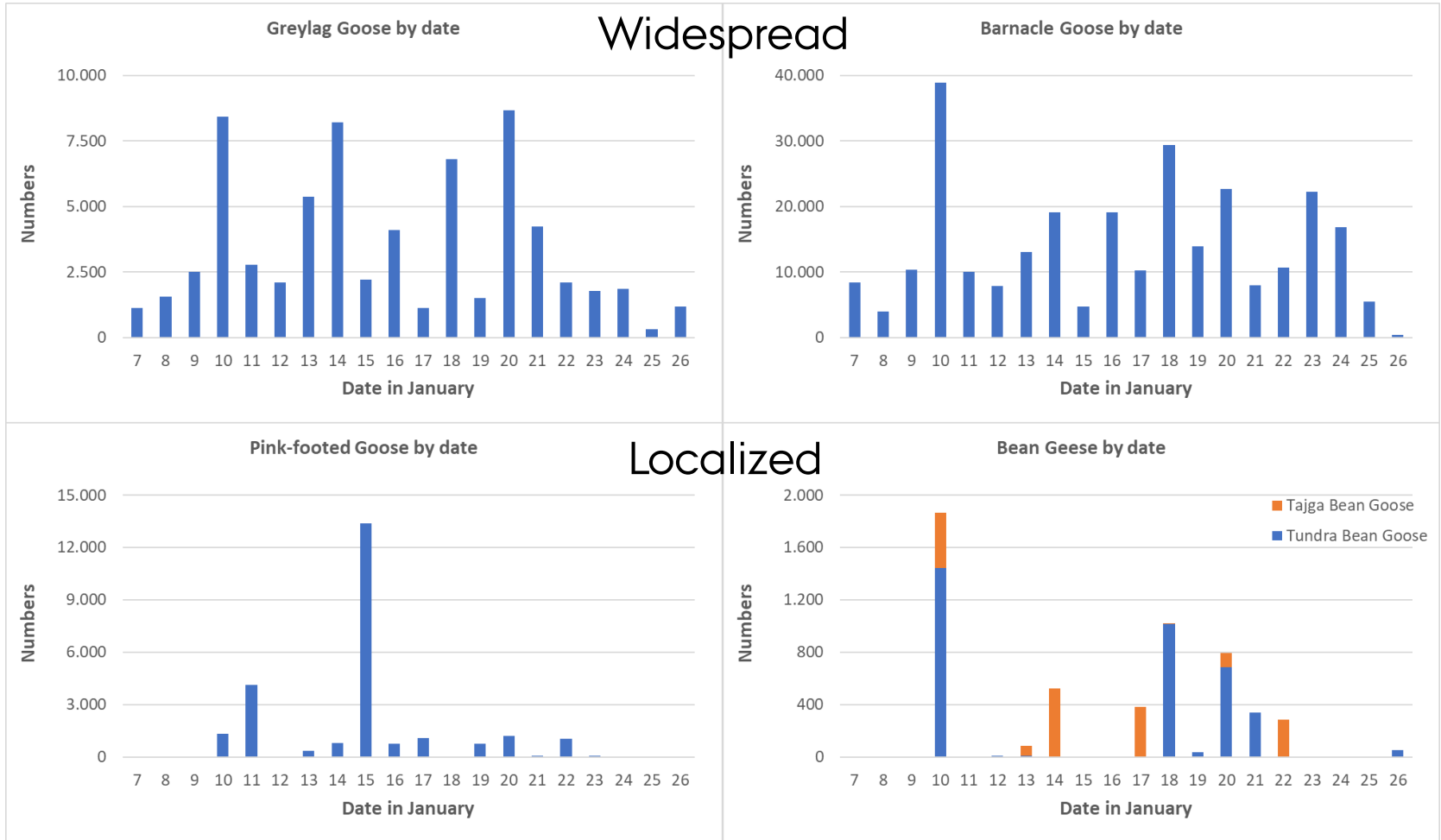
OUR FUGLEDATA.DK DATA FROM JANUARY 2023

Goose species	Totals
Greylag Goose	67.963
White-fronted Goose	21.242
Tundra Bean Goose	3.606
Tajga Bean Goose	1.807
Bean Goose (unidentified)	4
Pink-footed Goose	25.046
Light-bellied Brent Goose	5.516
Dark-bellied Brent Goose	2.029
Brent Goose (unidentified)	140
Barnacle Goose	275.803
Canada Goose	8.038
Goose (unidentified)	42
Totals	411.236



All land-based data typed in by 16 February

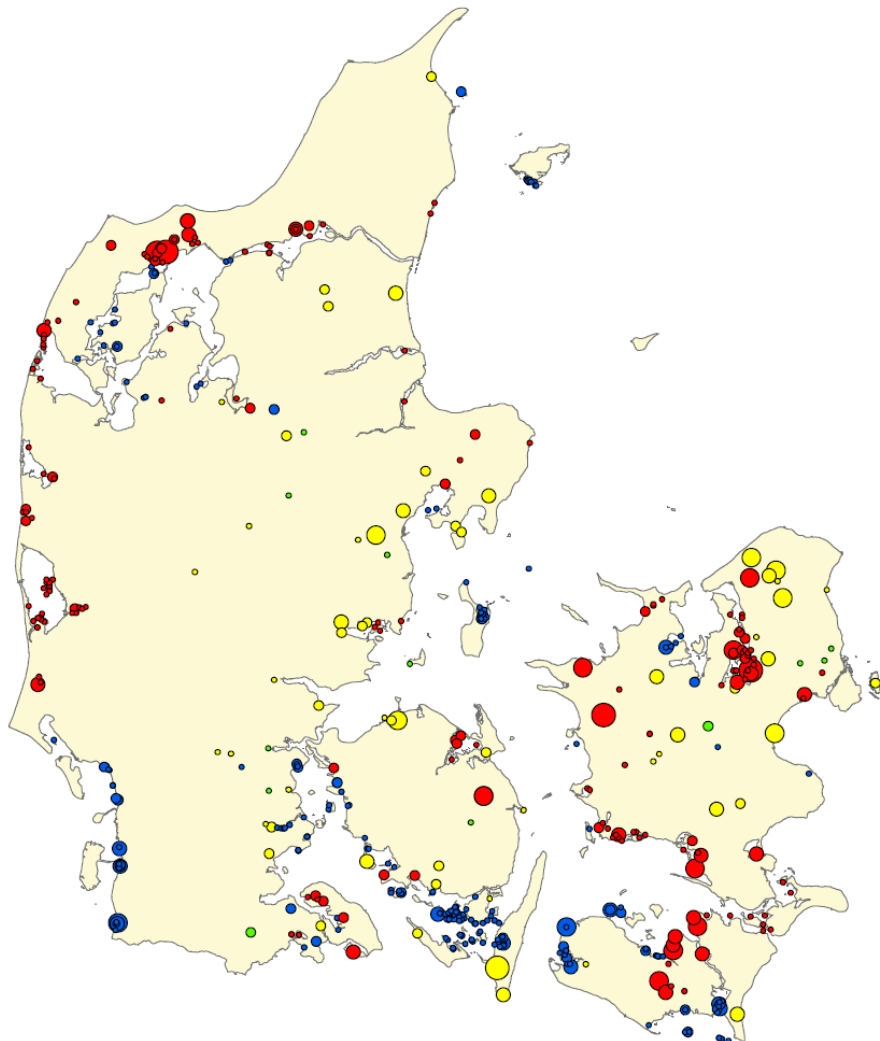
OUR FUGLEDATA.DK OBSERVER NETWORK DATA FROM JANUARY 2023



ADDING DATA TOGETHER

- > Our fugldata.dk observer network data goes in GIS first
- > 10 km buffer around each counted count unit polygon centroid used to assign where DOFbasen data are obvious overlaps, or potential supplementary data
- > Those **outside** buffers inspected manually, to pick "the best additional count data" ... by region, by date, by observer (typically add 10-20% additional Barnacle and Greylag Geese)
- > Those **inside** buffers inspected manually, but primarily for the less numerous species (that is the two Bean Geese and Pink-footed Goose, adds a few %, because major sites are all covered by our observer network)

A WORKED EXAMPLE - GREYLAG GOOSE, SUMMER 2018 SURVEY (SUMMER HOLIDAYS!!!)



Landstotal	2018
Fugledata	54104
Flytal	27029
DOFbase1 (lokaliteter)	29104
DOFbase2 (>10)	1100
I alt	111337

Thanks for your attention!!

