

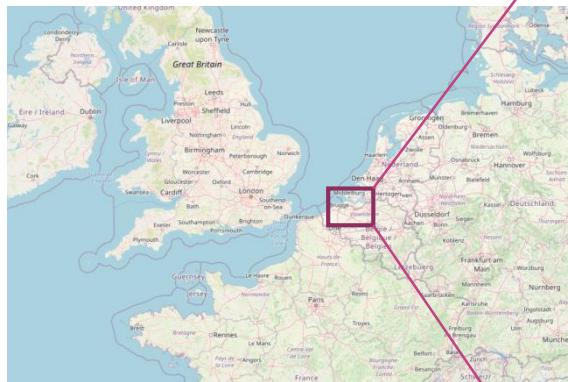
Een jaar in het kielzog van de fint



Pieterjan Verhelst
Team Aquatisch Beheer
INBO

They're back!

1905
Vervuiling



Akoestische telemetrie



Akoestische telemetrie

Jaar	External of internal	Aantal	Overlevin g (%)	Returns (% van overlevers)
2015	External	8	5 (62%)	0
2016	External	26	23 (88%)	0
2017	External	5	4 (80%)	0
2018	External	2	1 (50%)	0
	Internal	3	0 (0%)	0
2019	External	1	0 (0%)	0
	Internal	4	4 (100%)	2 (50%)
2020	Internal	19	16 (84%)	7 (44%)
2021	Internal	37	29 (78%)	11 (38%)
2022	Internal	52	49 (94%)	TBD
2023	Internal	92	TBD	TBD

Settings:

69 kHz

Ø 9 mm

Lengte: 24 mm

Gewicht: 4 g

30 – 60 s

Ca. 20 maanden



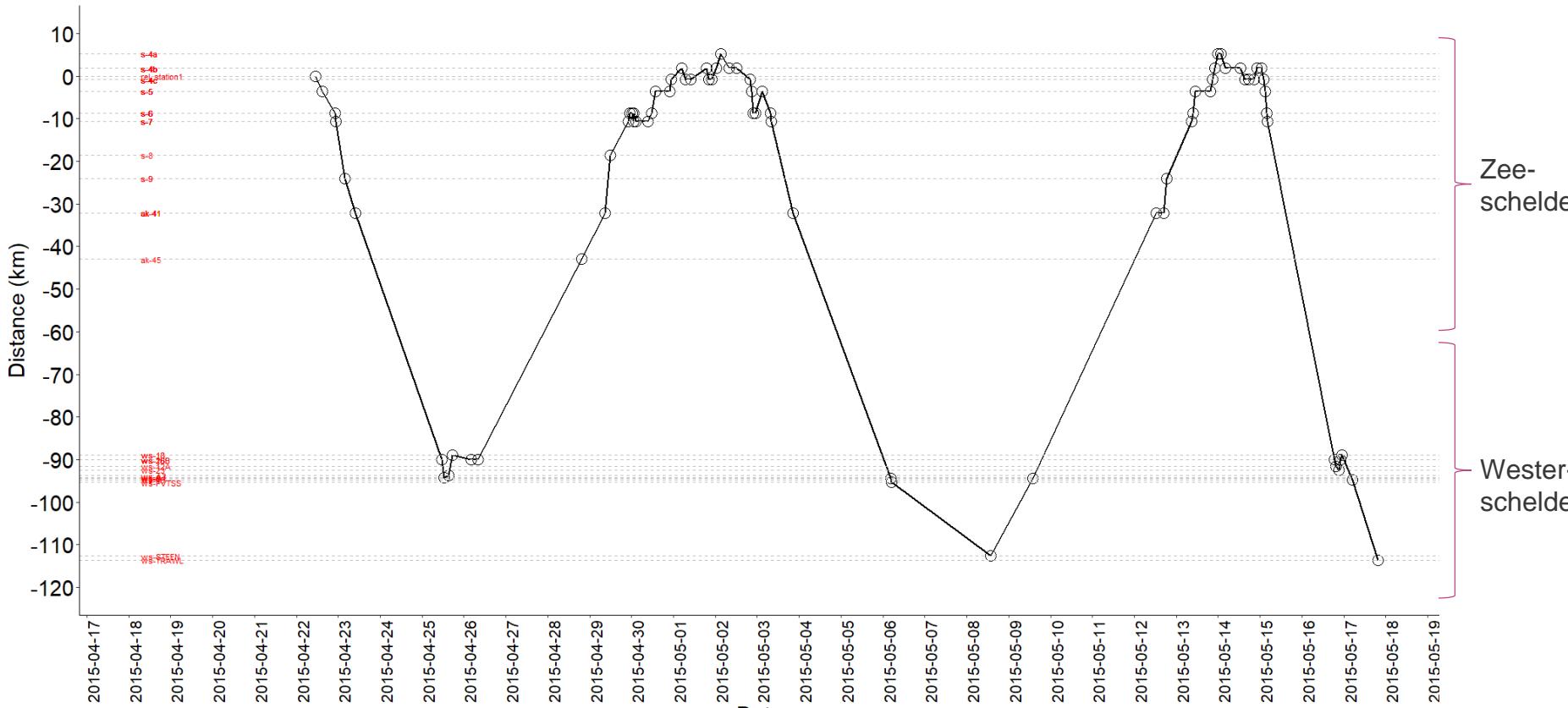
Akoestische telemetrie



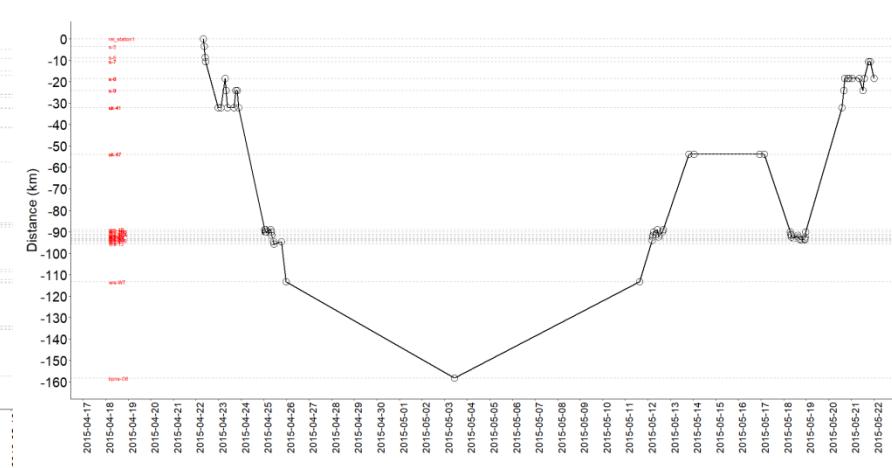
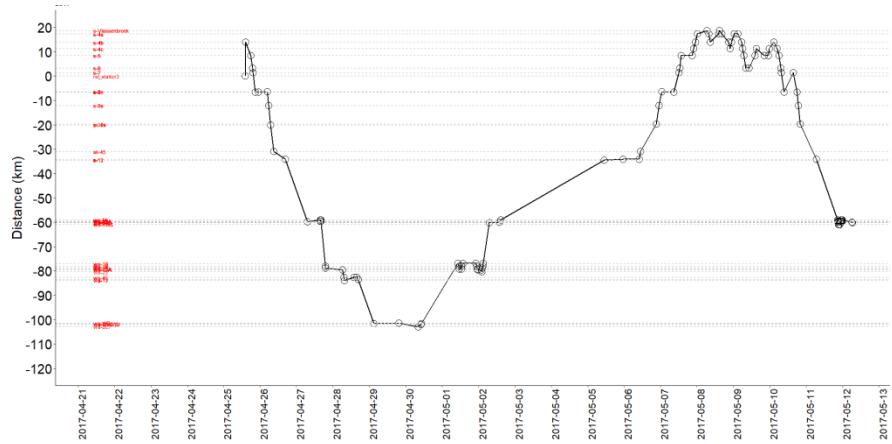
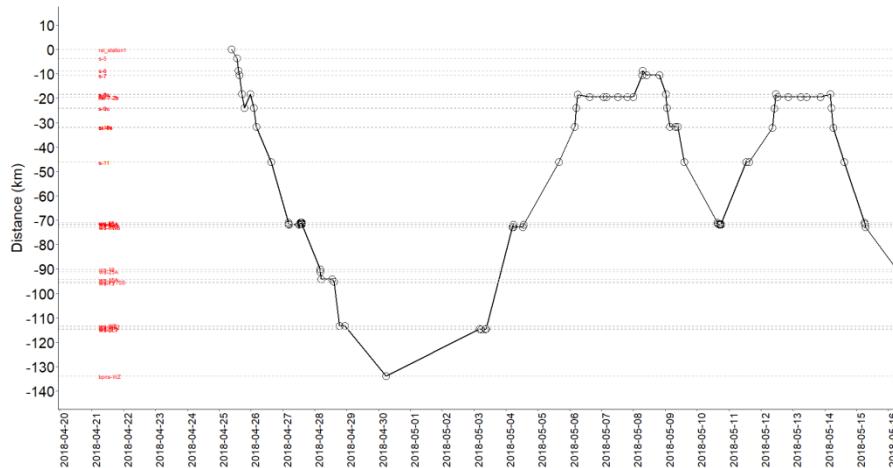
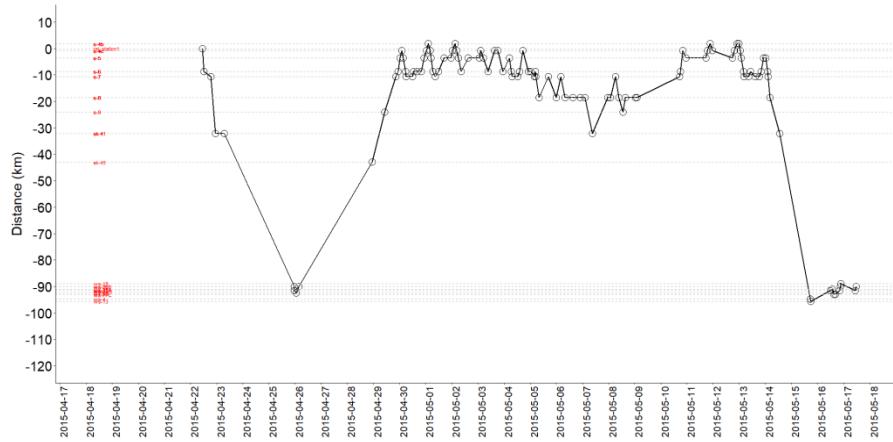
Akoestische telemetrie



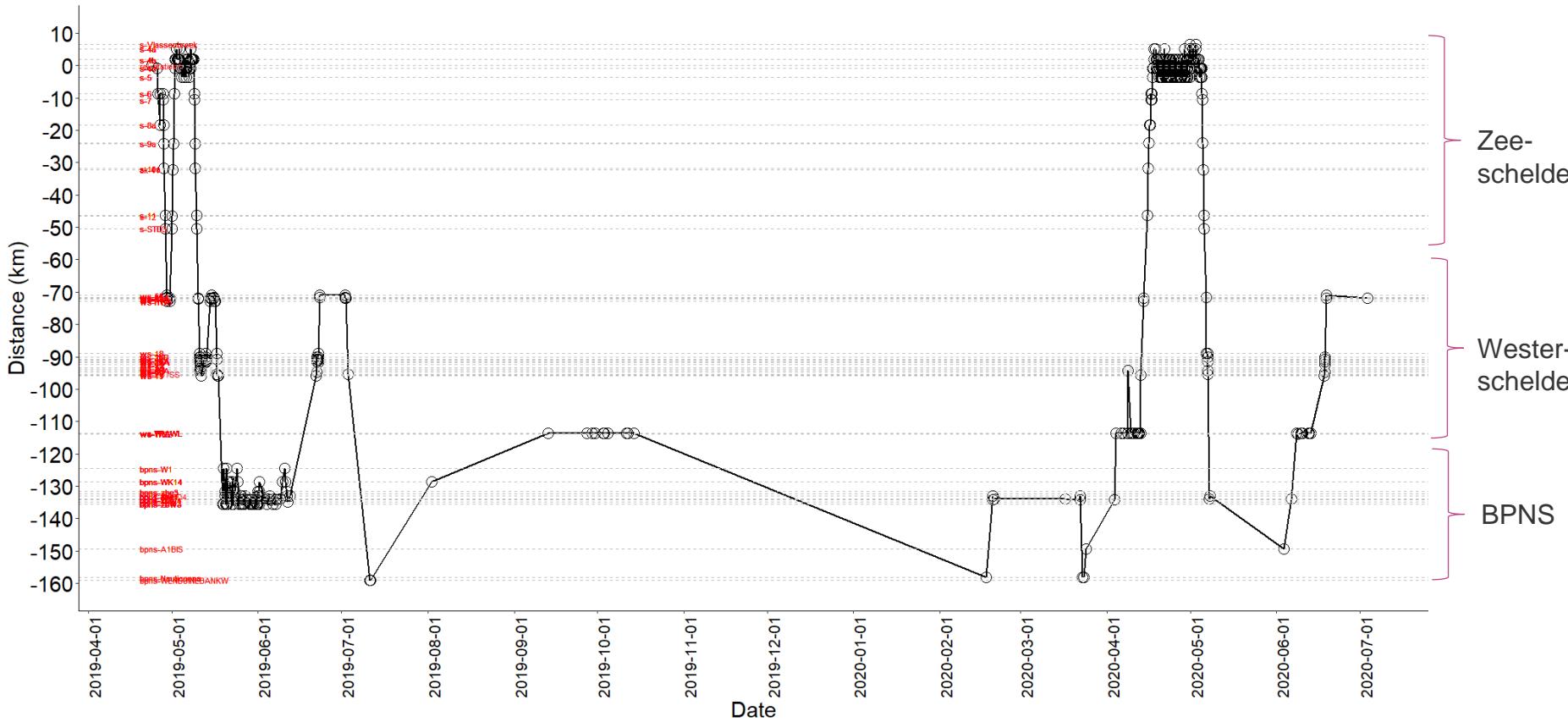
'In den beginne'



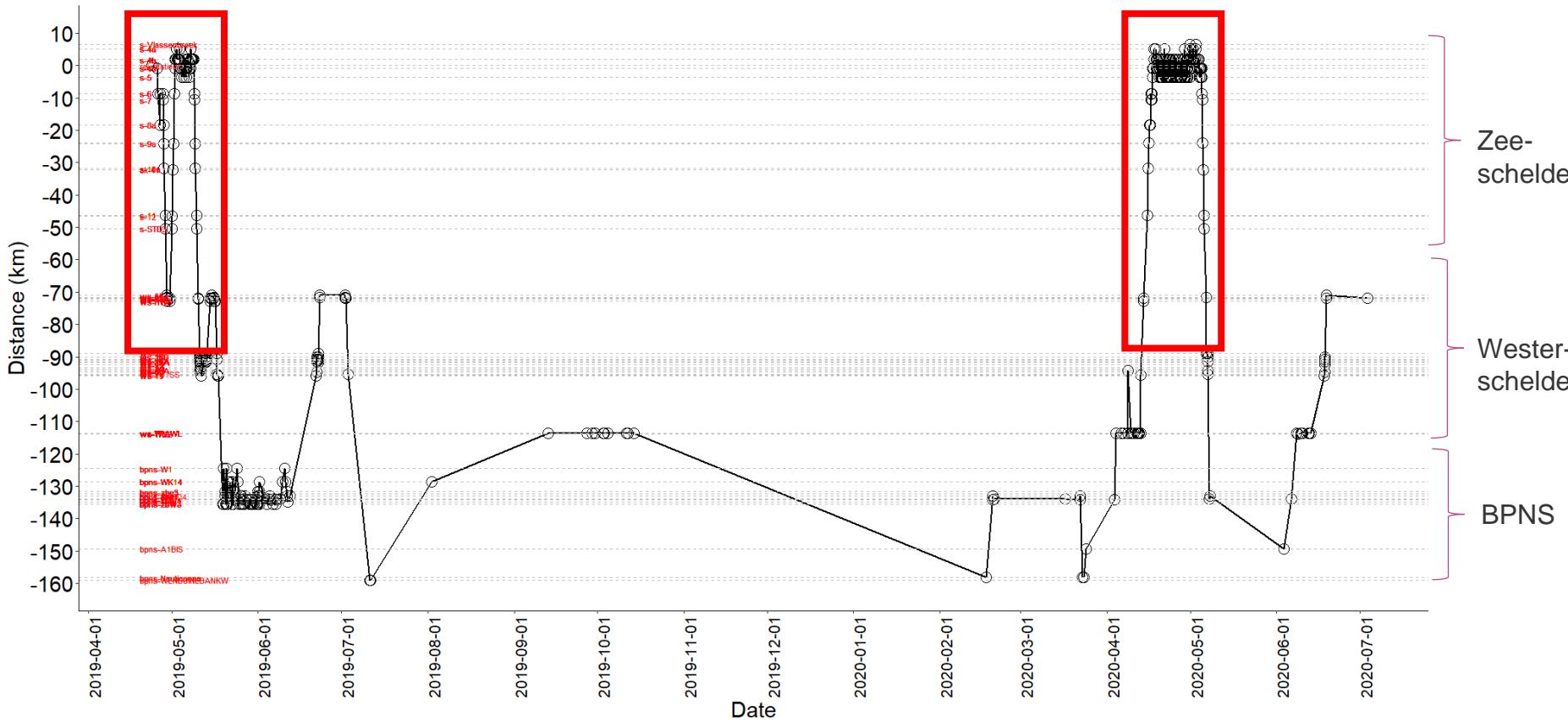
‘In den beginne’



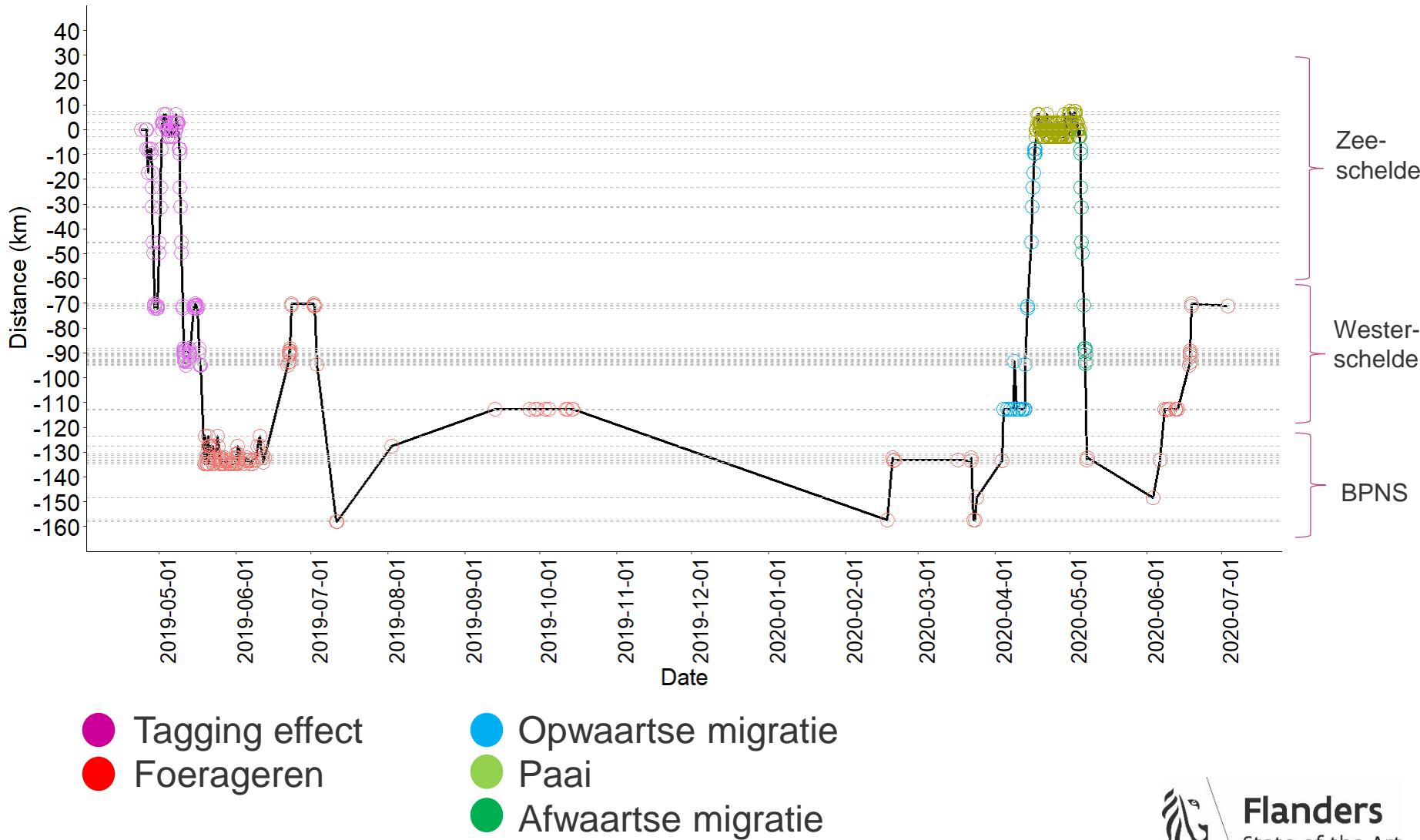
Returners



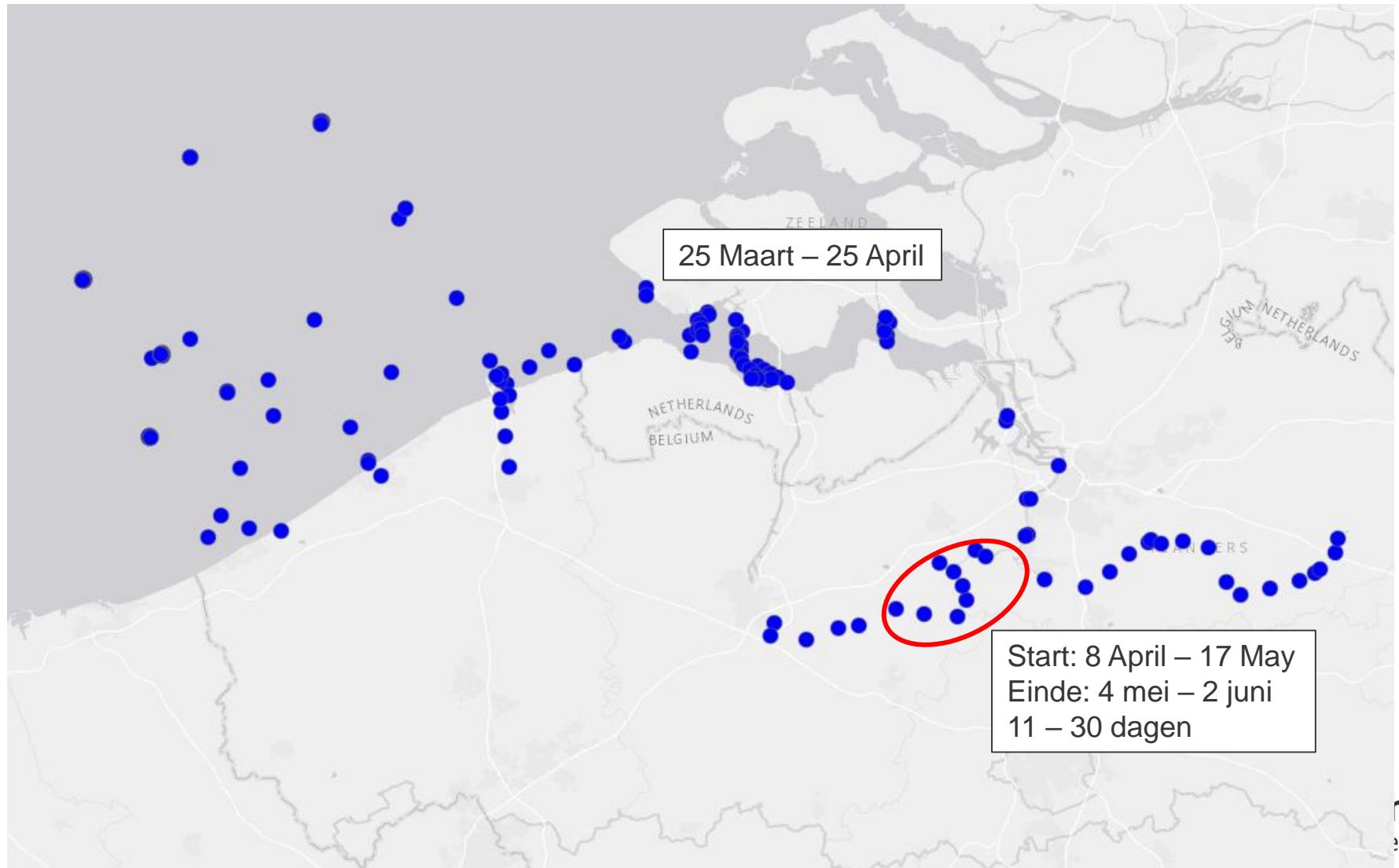
Returners



Returners



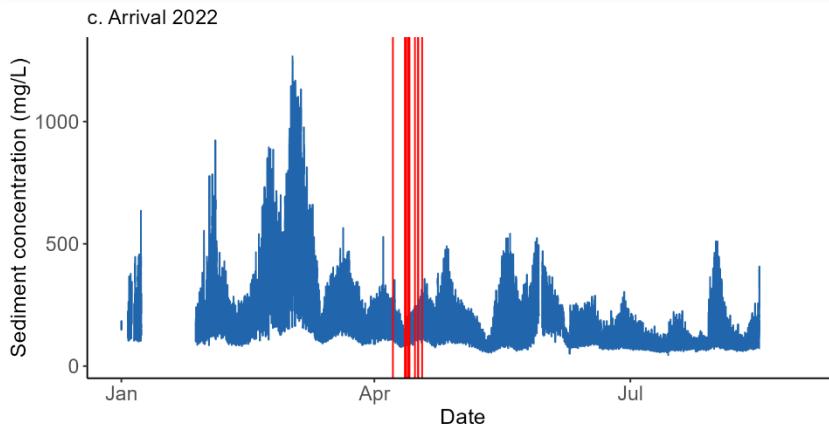
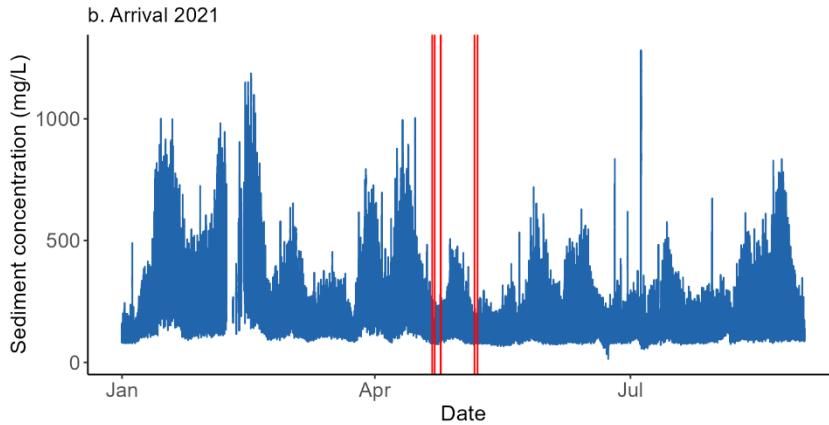
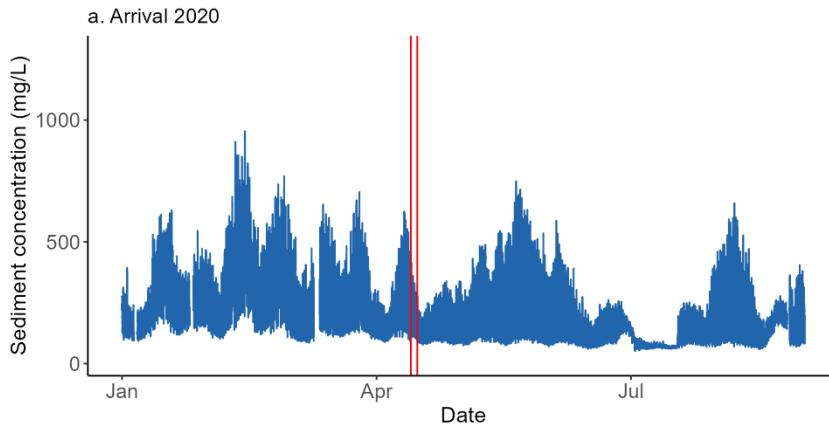
Returners – paaimigratie



Returners – paaimigratie

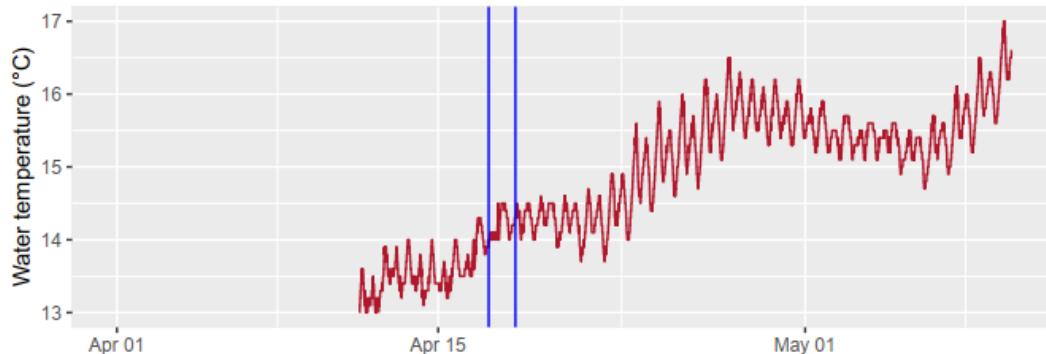
Sediment concentratie

< 250 mg/L



Returners – paaimigratie

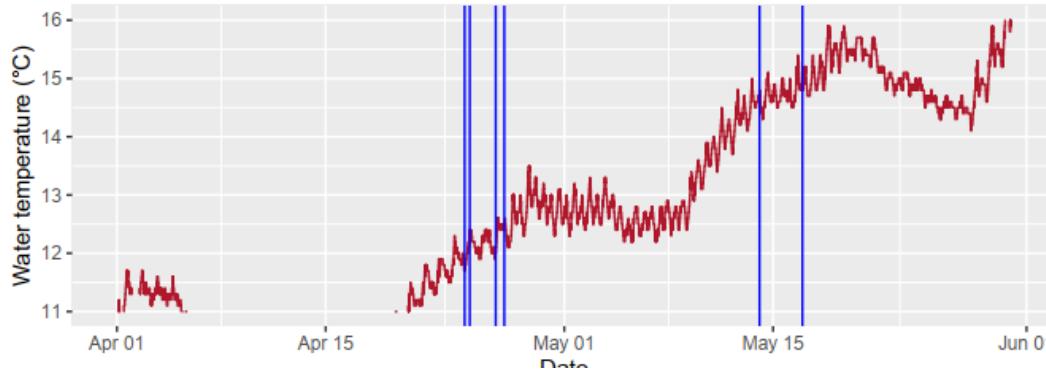
2020



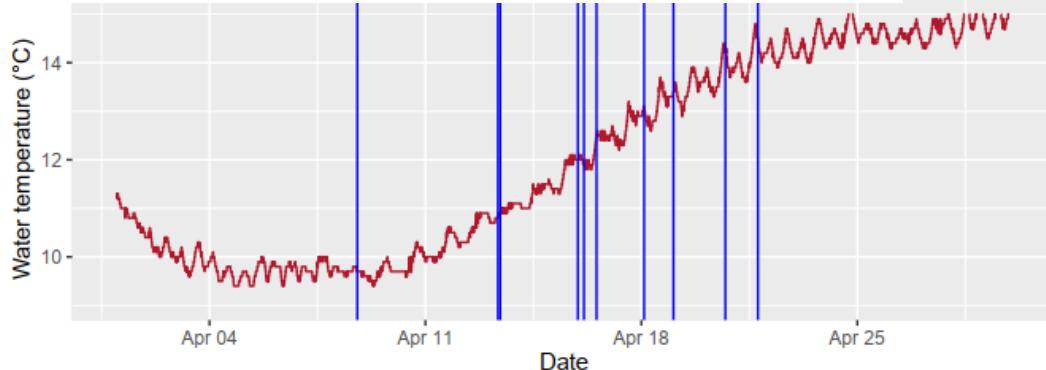
Watertemperatuur

9.80 - 14.80 $^{\circ}\text{C}$

2021

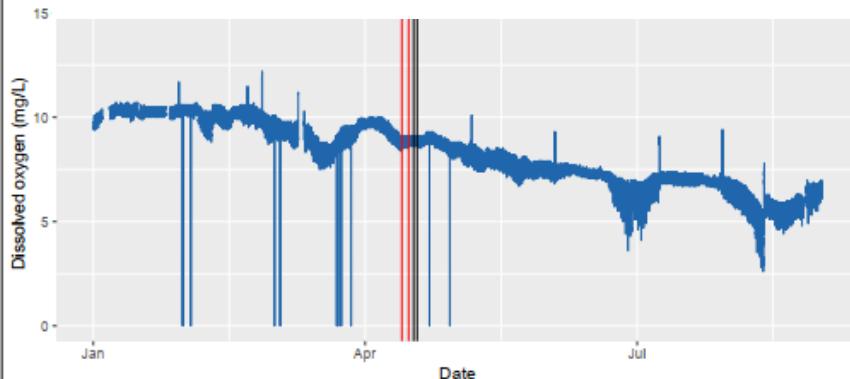


2022

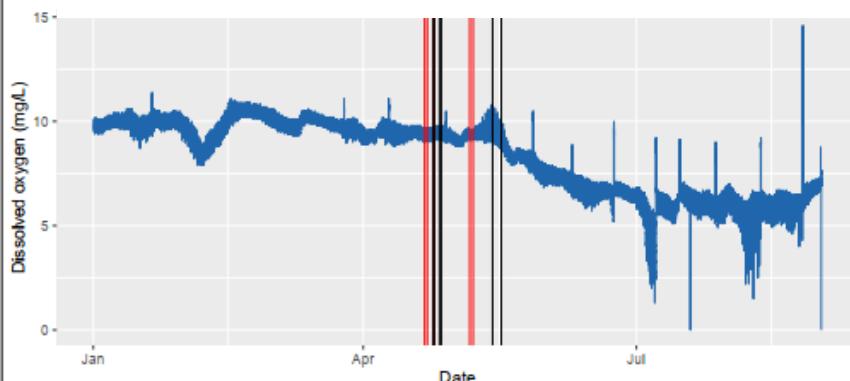


Returners – paaimigratie

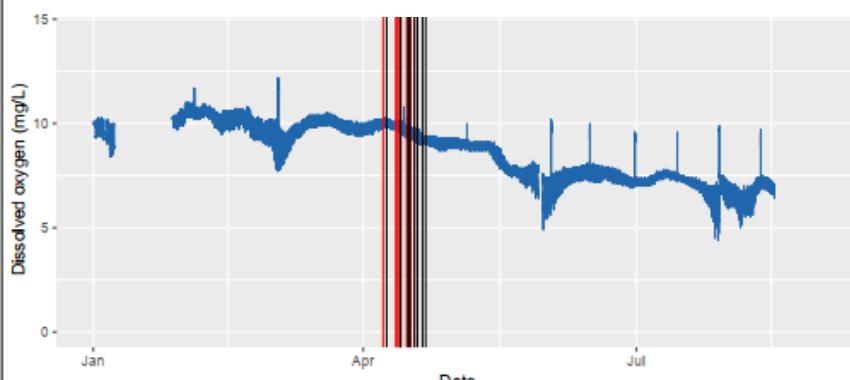
2020



2021



2022

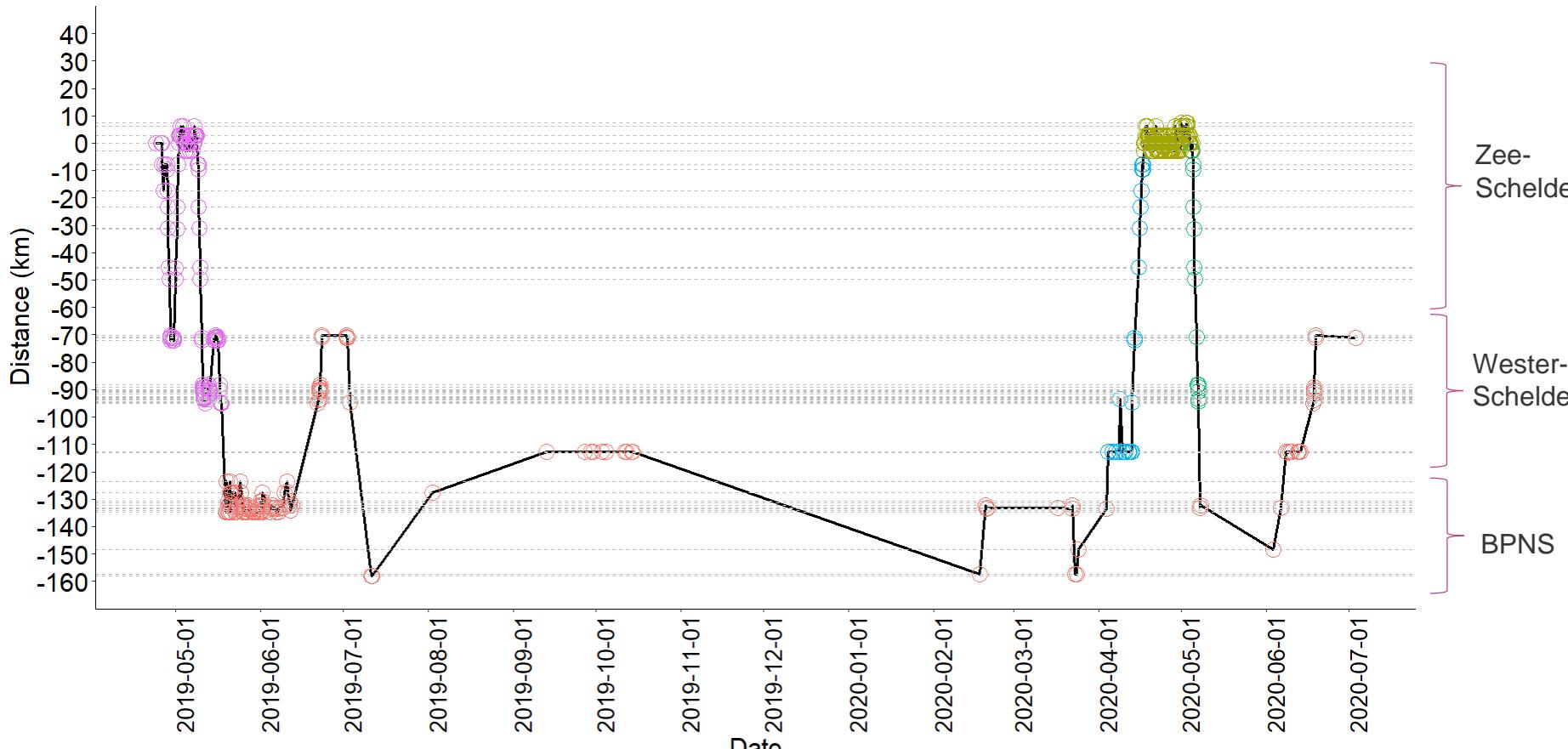


Opgeloste zuurstof

6.90 - 9.80
mg/L

Life @ sea

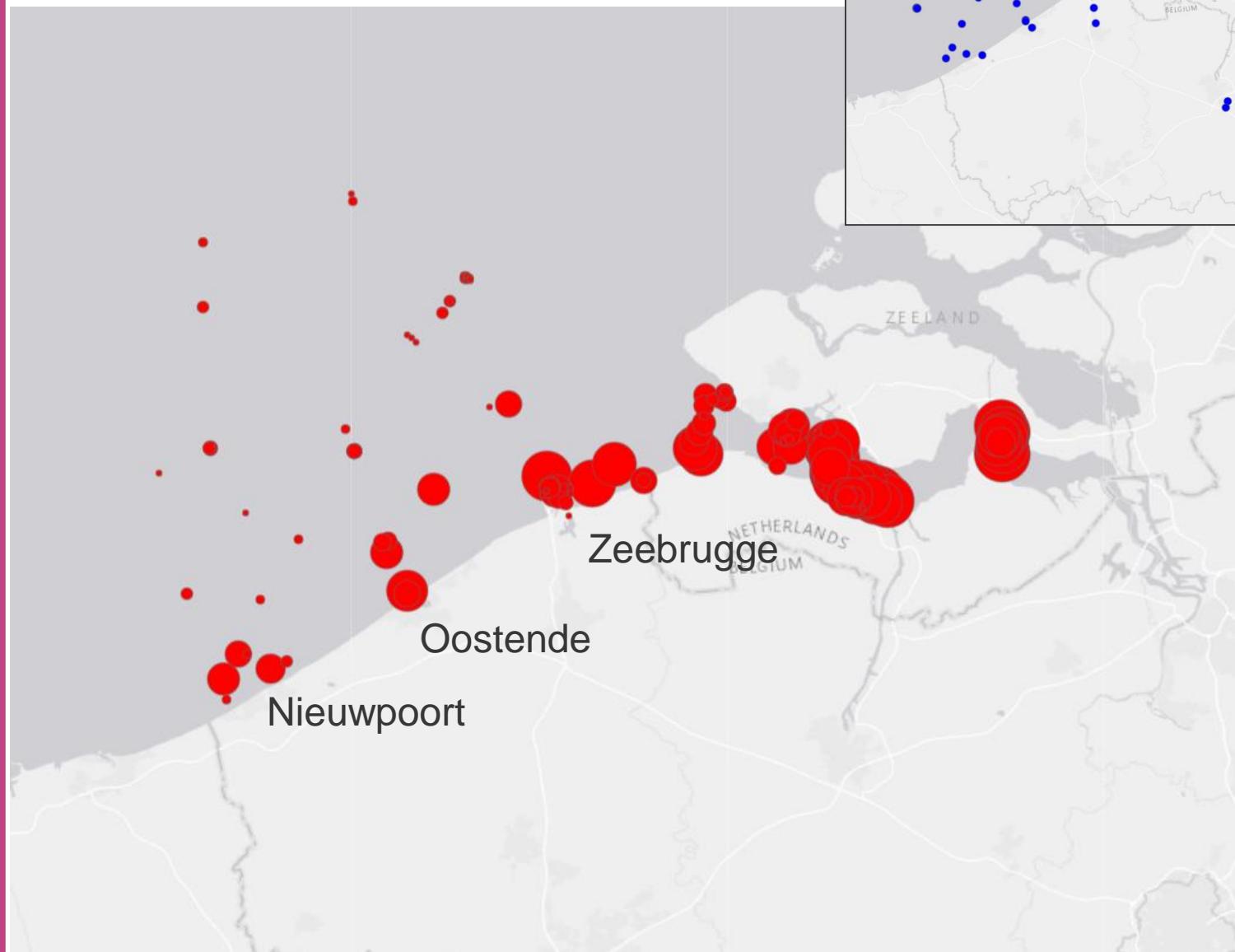


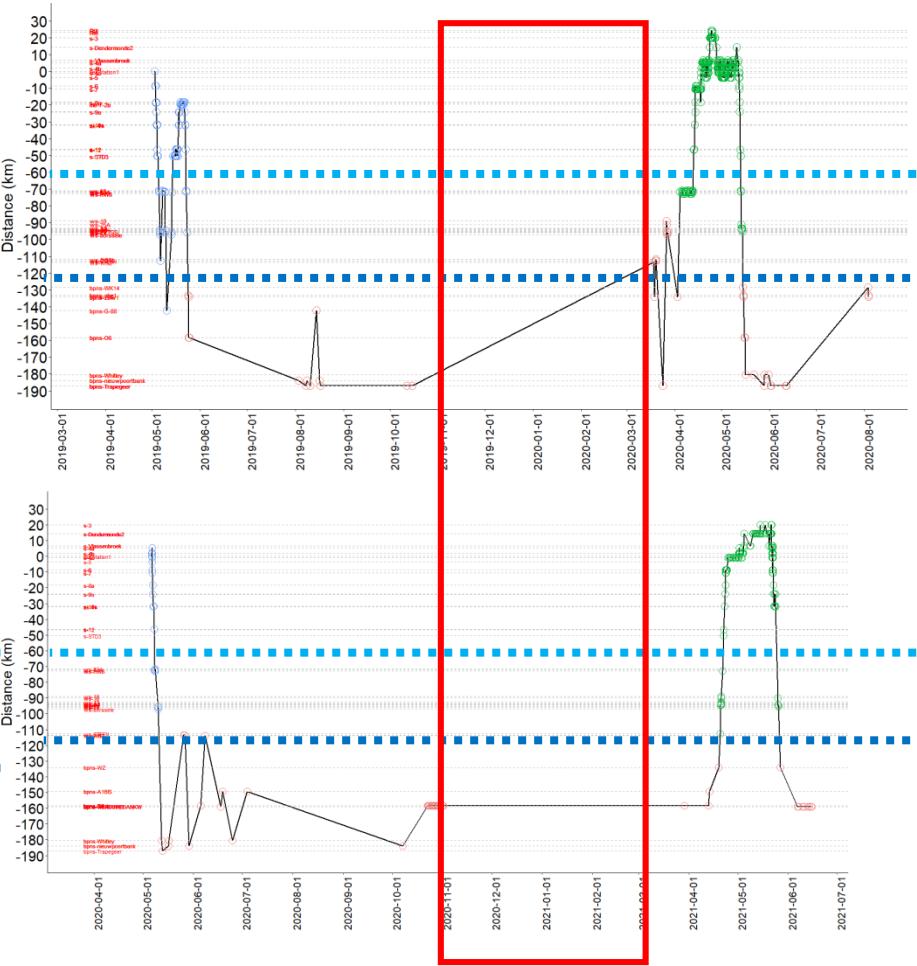
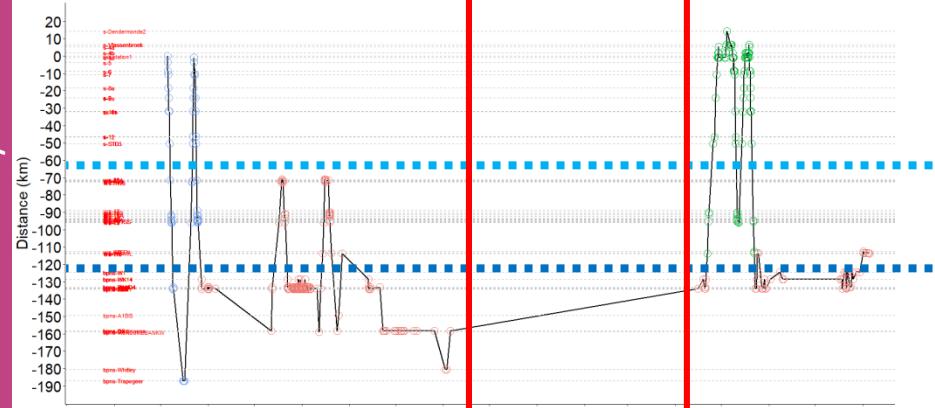
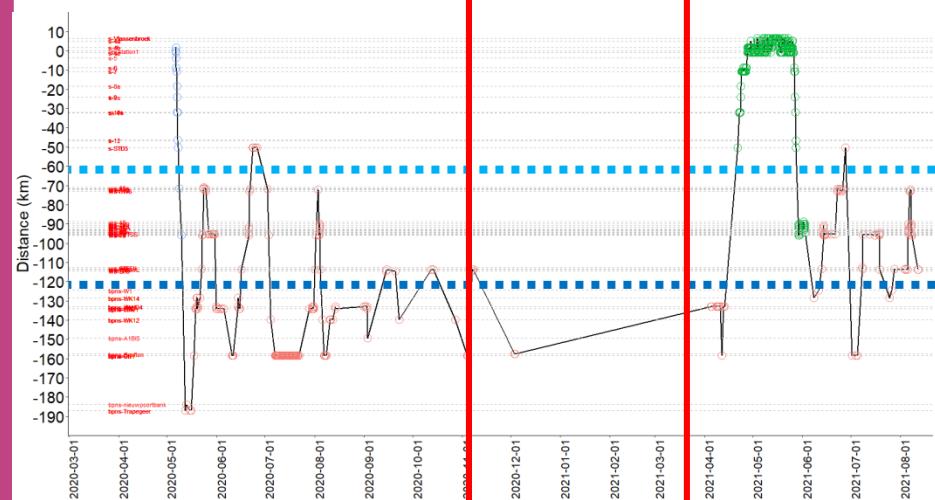
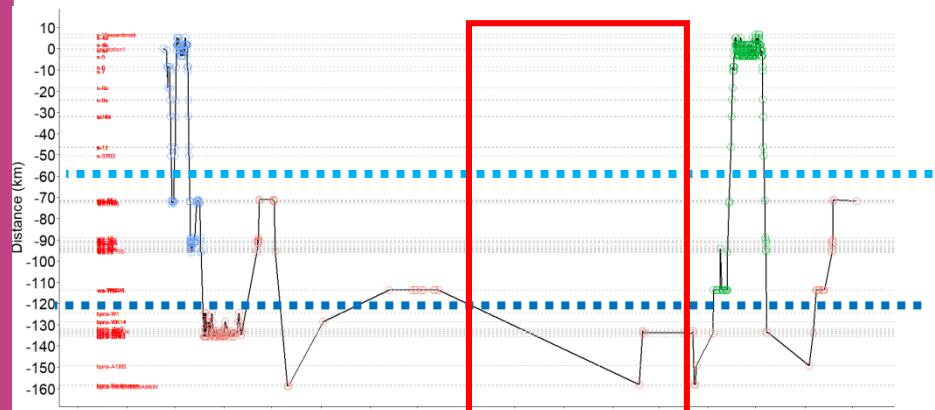


Tagging effect
Foerageren

Opwaartse migratie
Paai
Afwaartse migratie

Life @ sea

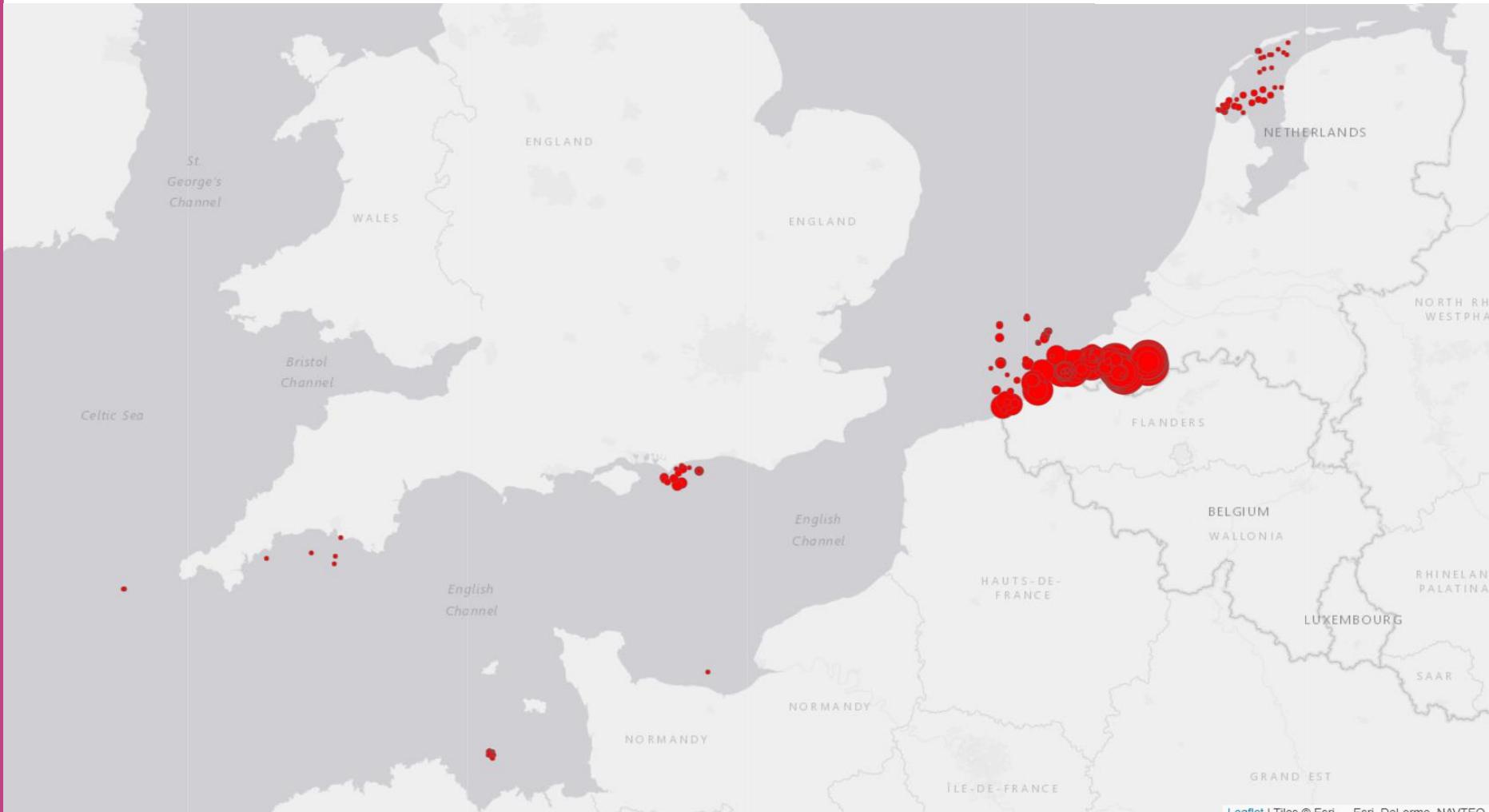




November – March ??



Life @ sea





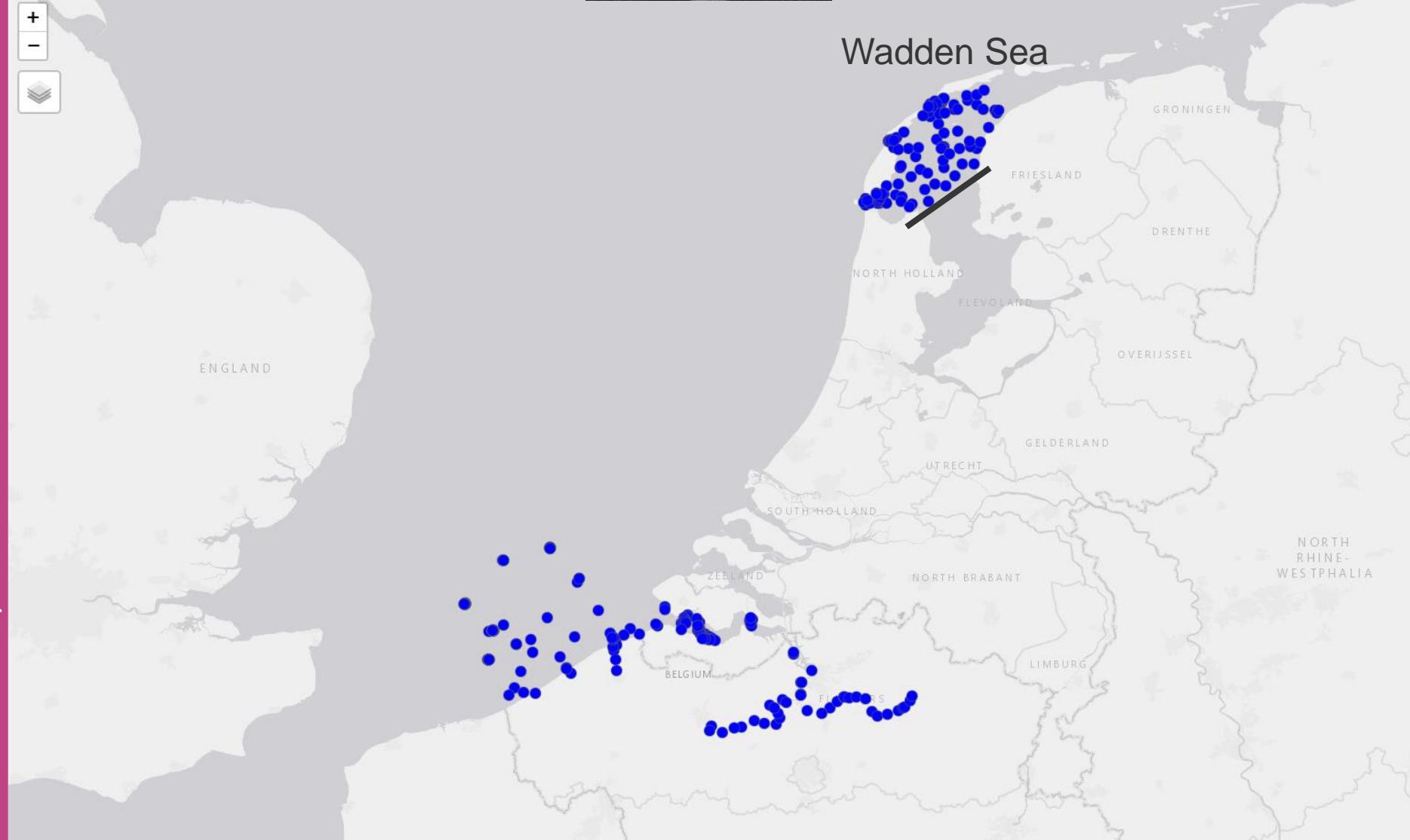
Jena Edwards



Erwin Winter

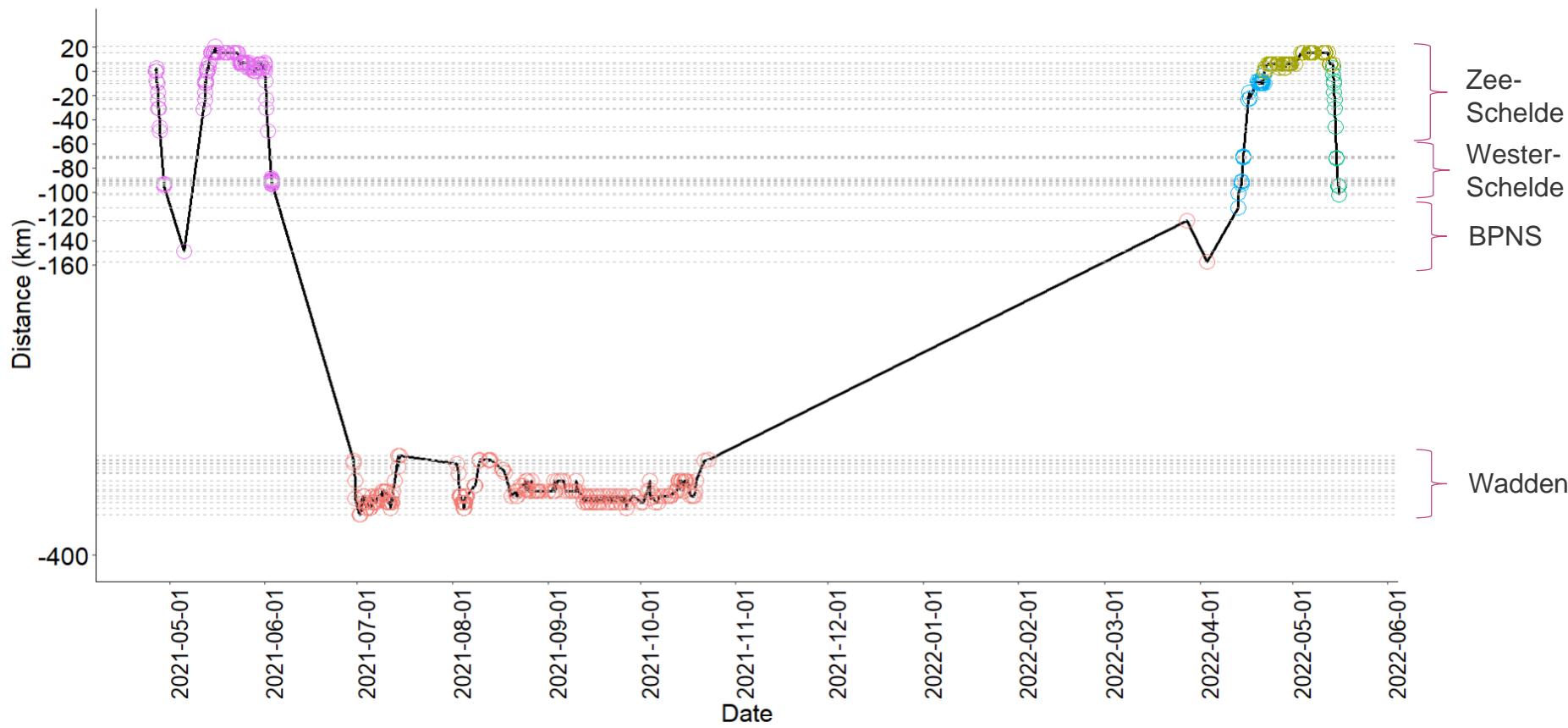


Allert Bijleveld





Wadden-fint



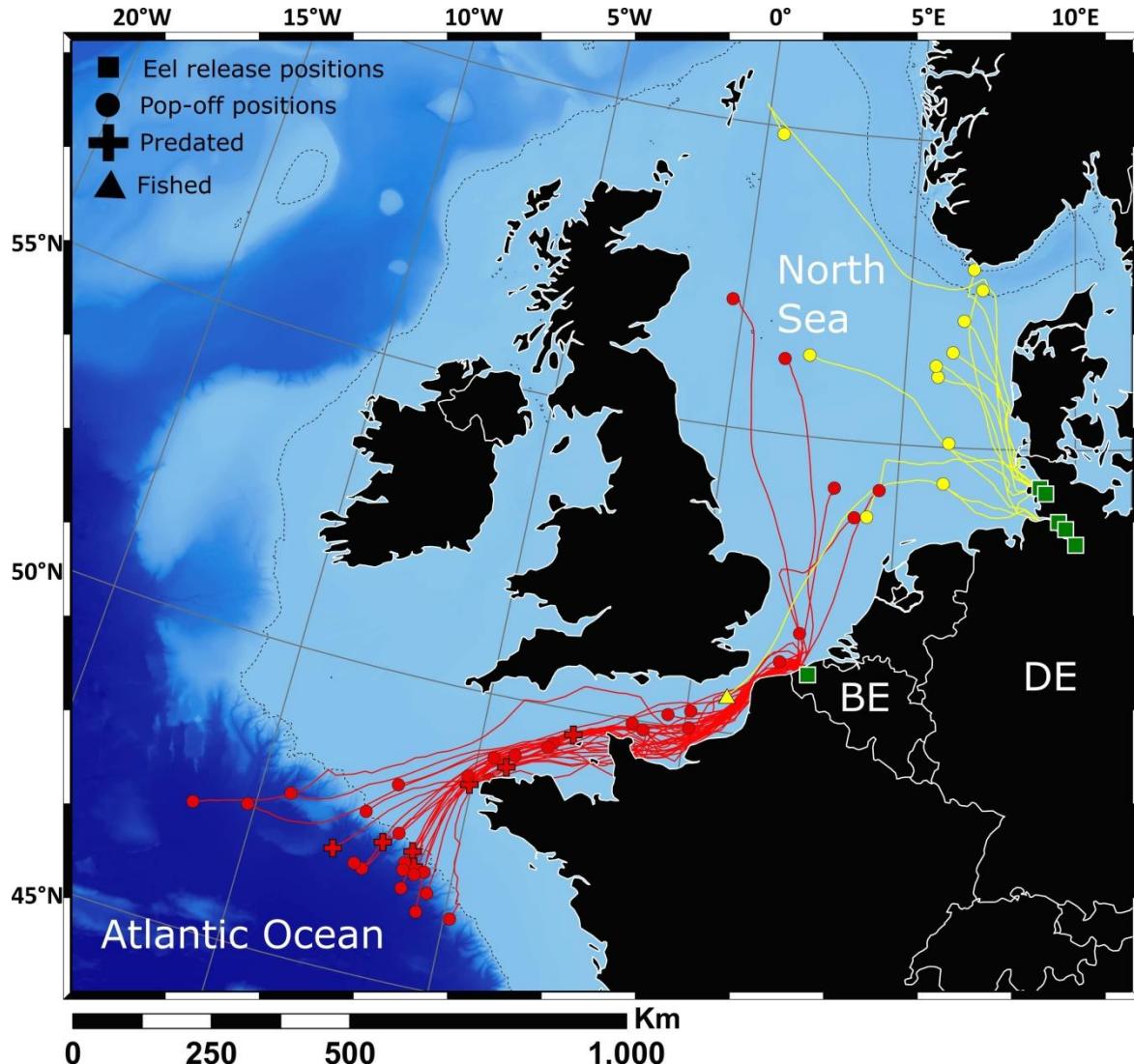
● Tagging effect
● Foerageren

● Opwaartse migratie
● Paai
● Afwaartse migratie



AND NOW FOR SOMETHING
COMPLETELY DIFFERENT.

Paling migratieroutes



Verhelst et al. (2022). Mapping silver eel migration routes in the North Sea. *Scientific Reports* 12, 1-10.

Data storage tags



G5 Standard (Cefas Technology Ltd.)



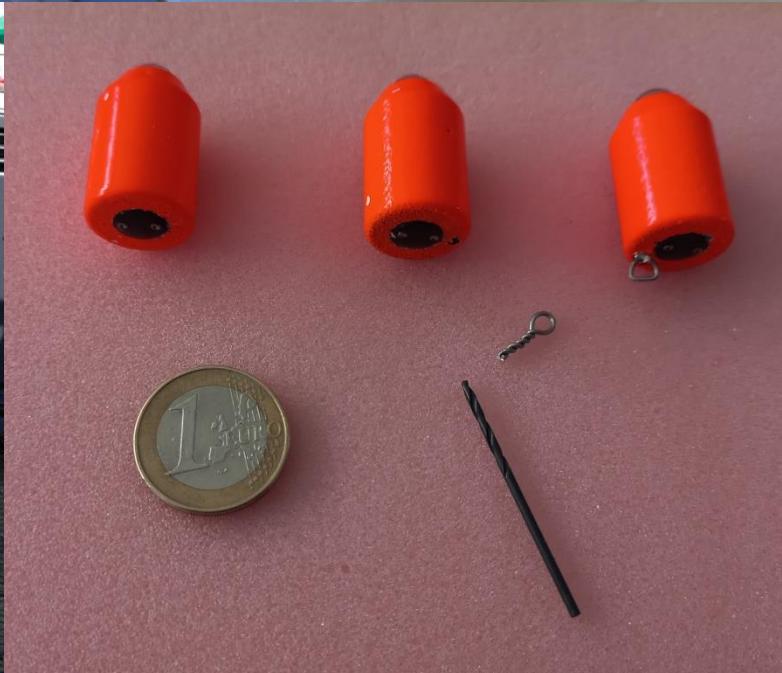
2 Mb memory
➤ Temperatuur
➤ Diepte
12 maand recording
Floatation collar
2.7 g (zonder FC)

Data storage tags



G5 Standard (Cefas Technology Ltd.)

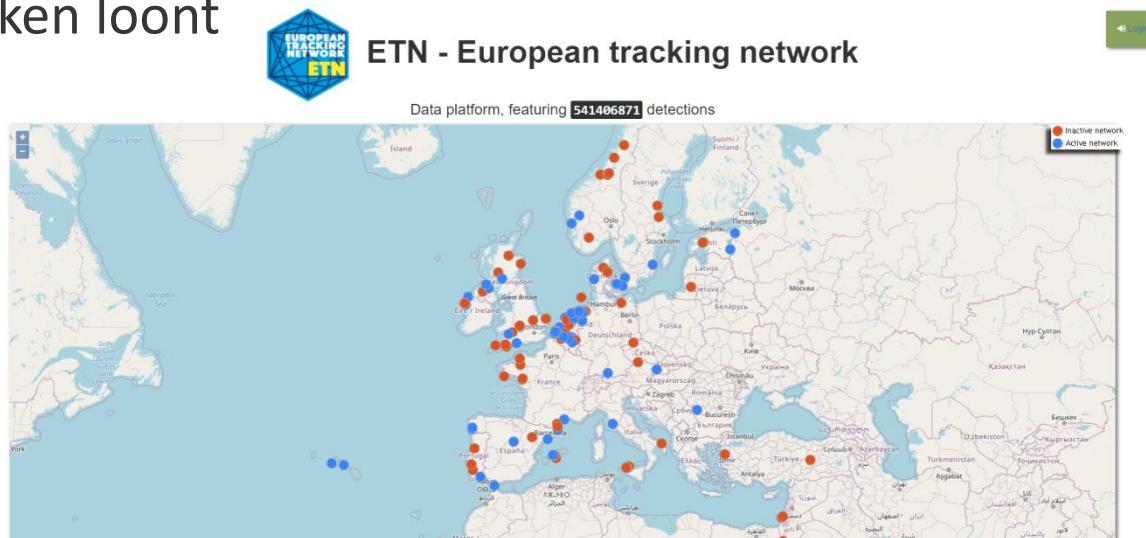
110 finten min. 40 cm TL



Conclusie



- ▶ Kustgebonden en estuariene soort (?)
→ Habitatrichtlijnsoort maar we kennen niet het habitat...
- ▶ Kan 100den kilometers weg van geboorteplek foerageren
- ▶ Over administratieve grenzen → adequaat management
- ▶ Schoolgedrag? Populatiestructuur?
- ▶ Samenwerken loont





Een werk van een heel team, vrijwilligers en
studenten!

pieterjan.verhelst@inbo.be

