BlightManager

EuroBlight
A potato late blight network for Europe

Two new clones of *P. infestans* fight against a sexual recombining population in Denmark

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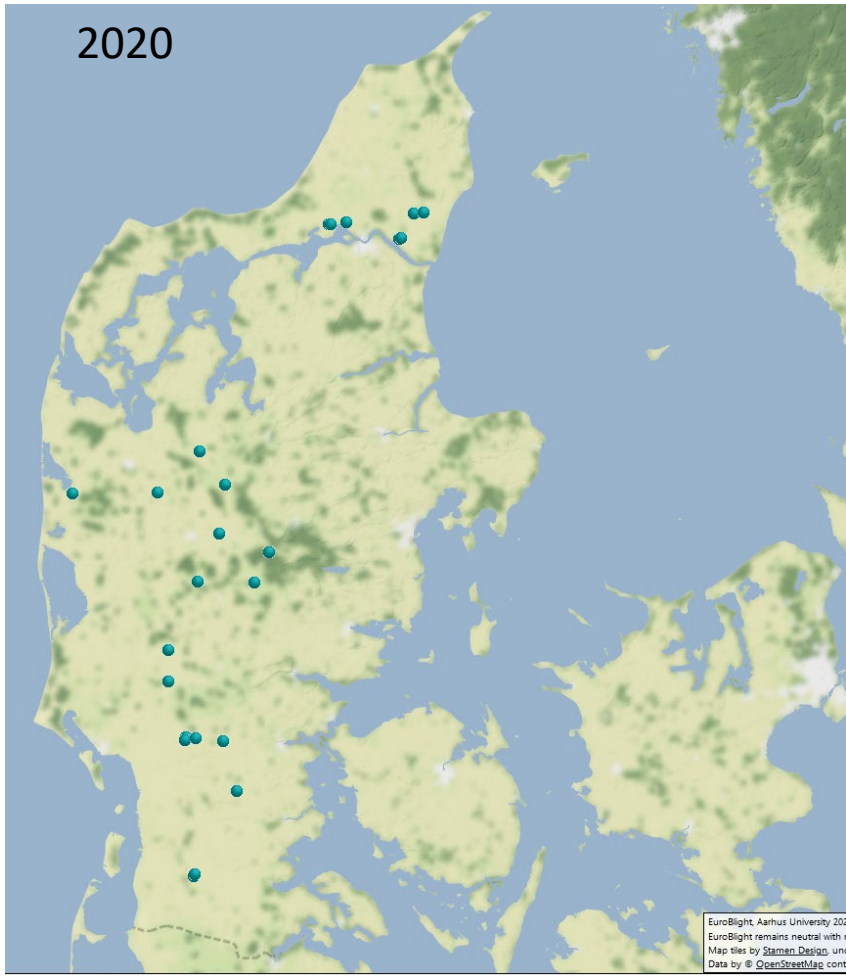
EuroBlight subgroup meeting 16 March 2021

136 isolates sampled from 12 June until October

DK population af *Phytophthora infestans:* *(SSR genotypning)*

Other: 74
EU41: 37
EU43: 25

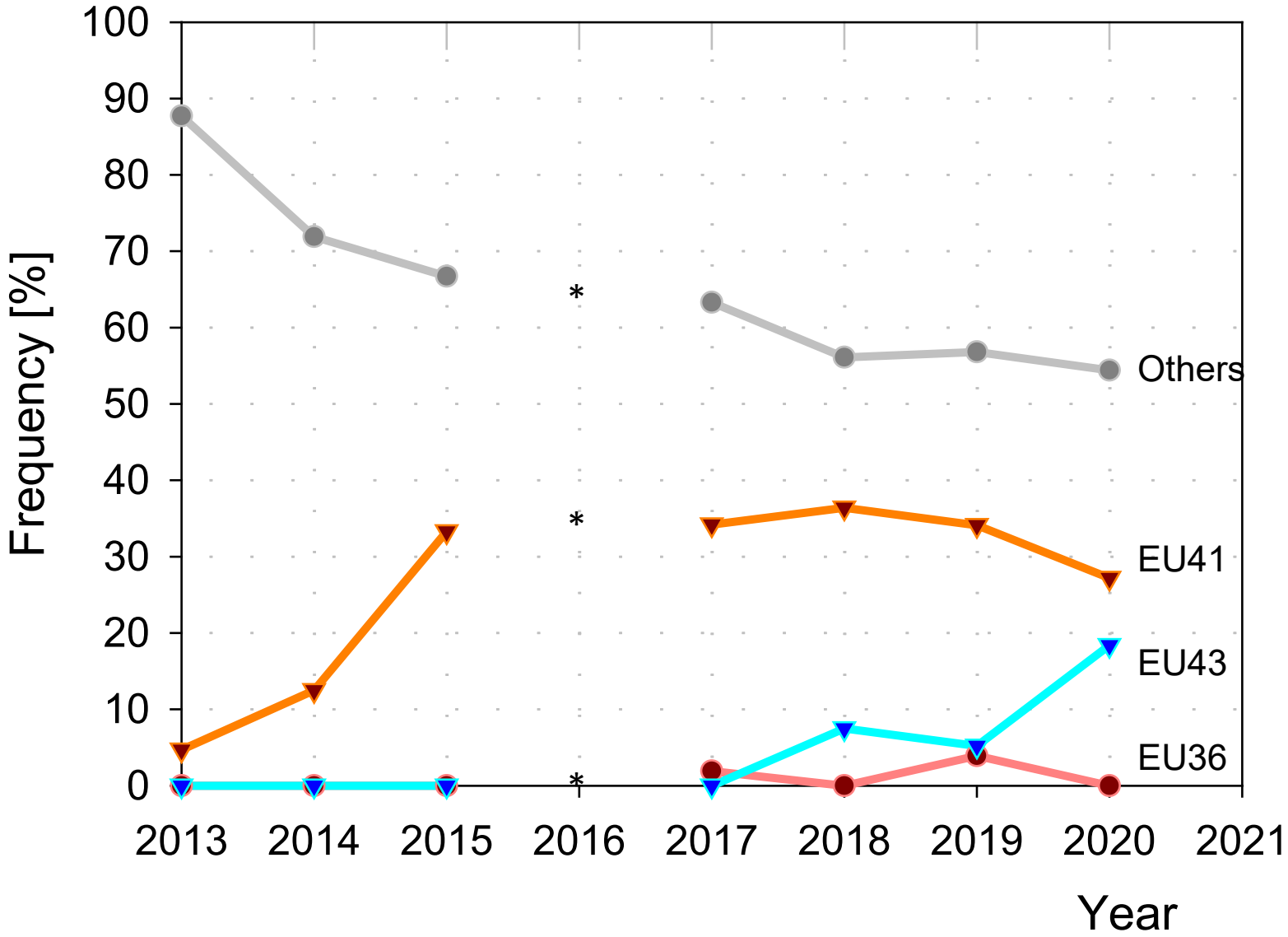
EU43 – a new genotype only found in Denmark. Named in 2020 and recognised via SSR *poppr* analysis in 2018 and 2019 (not earlier)



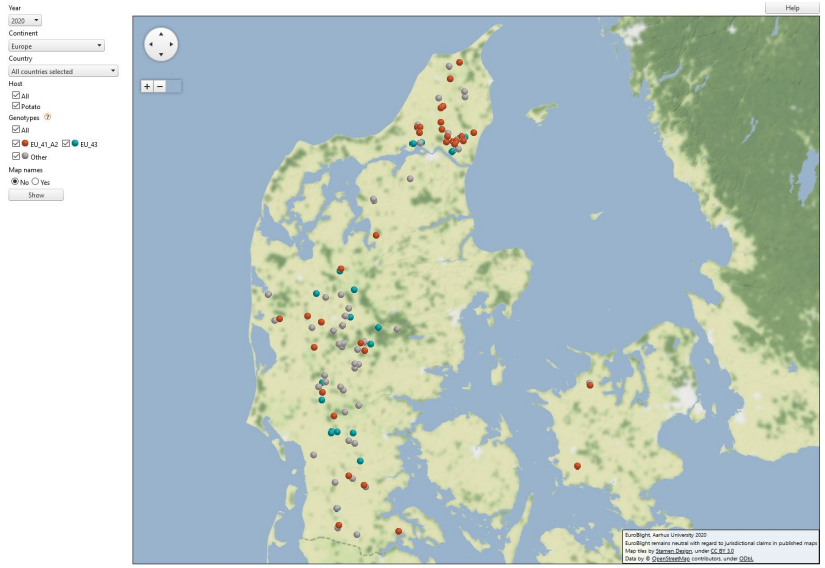
Mid-West Jutland

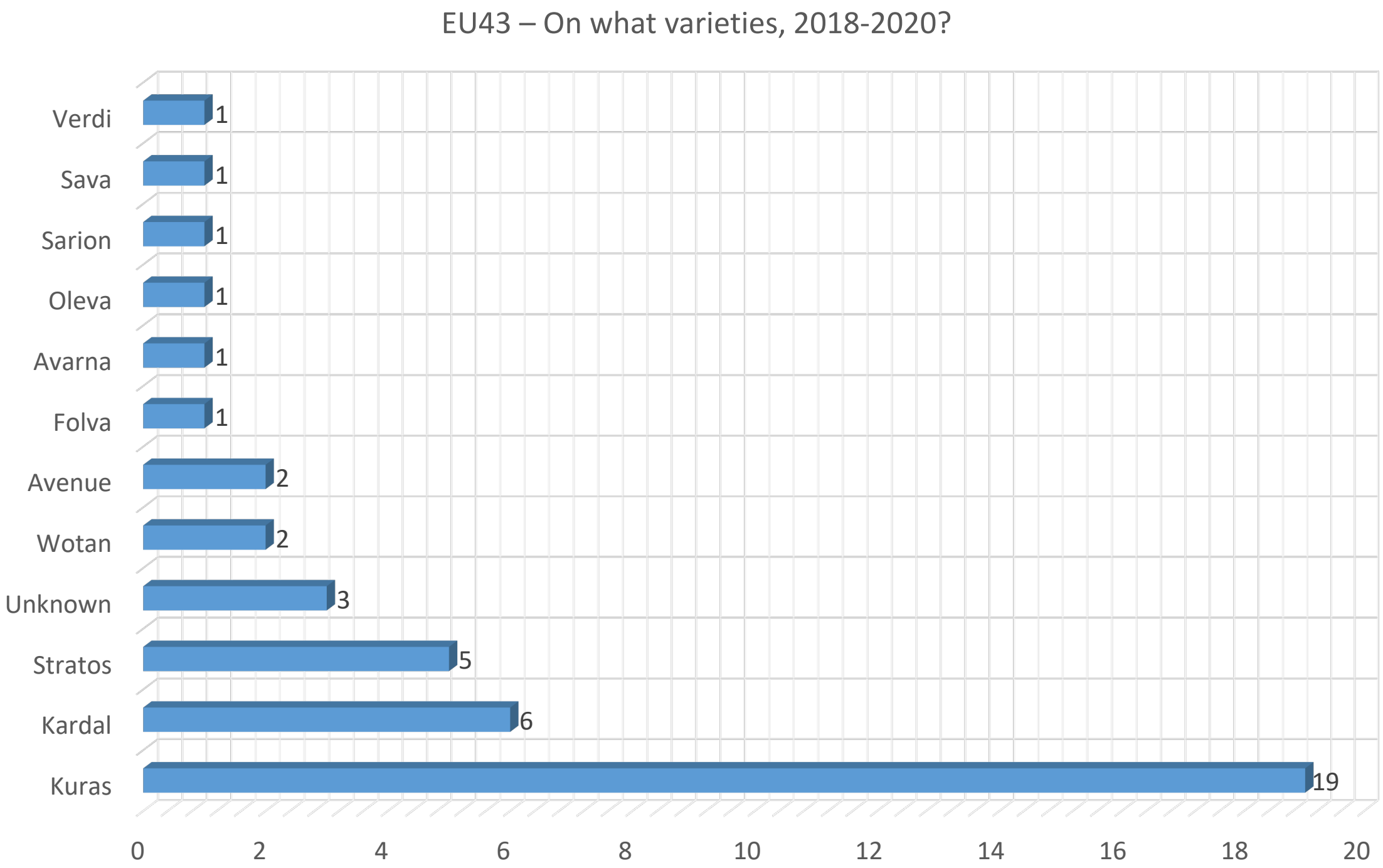
Expand south

More widespread – also in the north



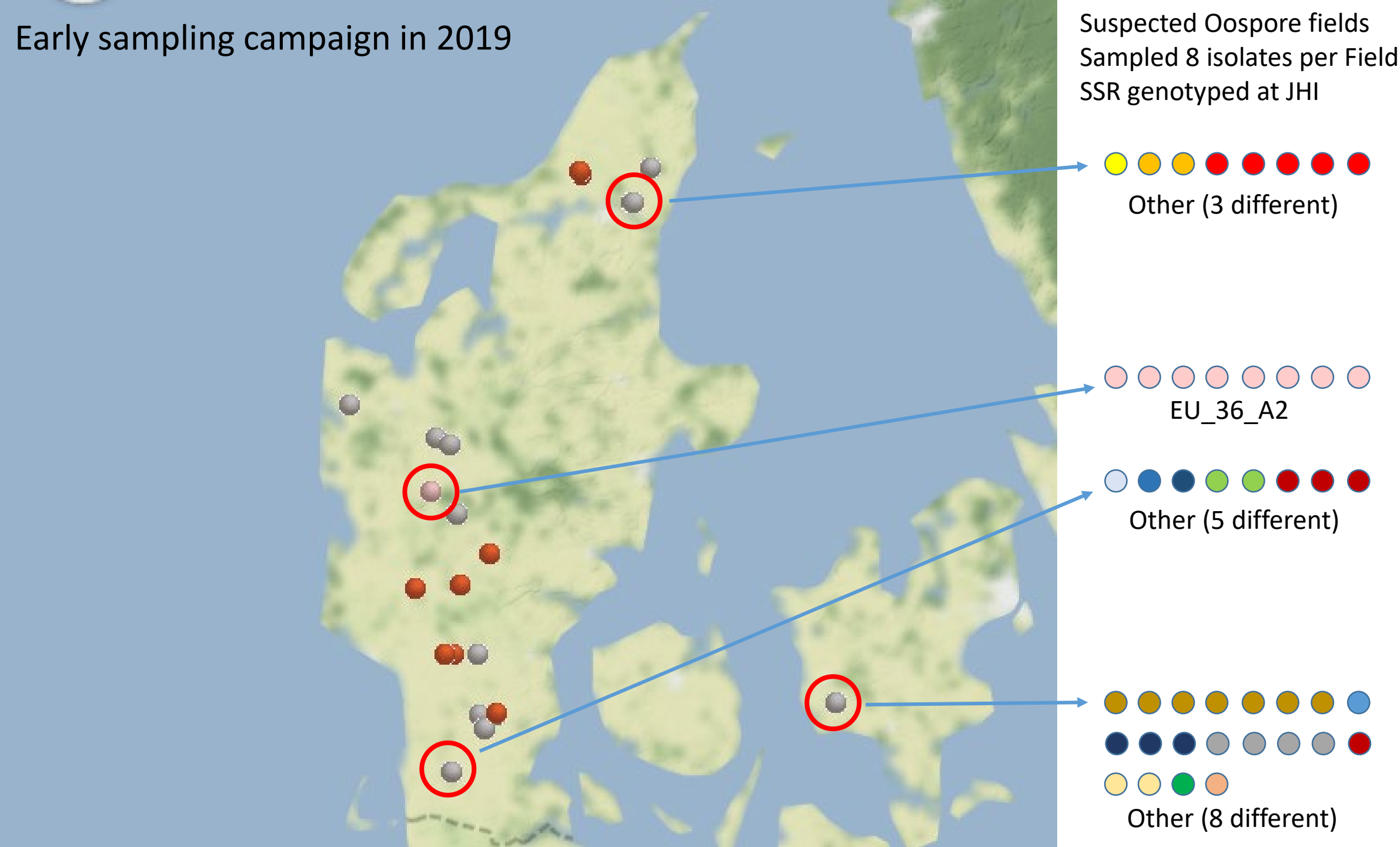
* No data in 2016

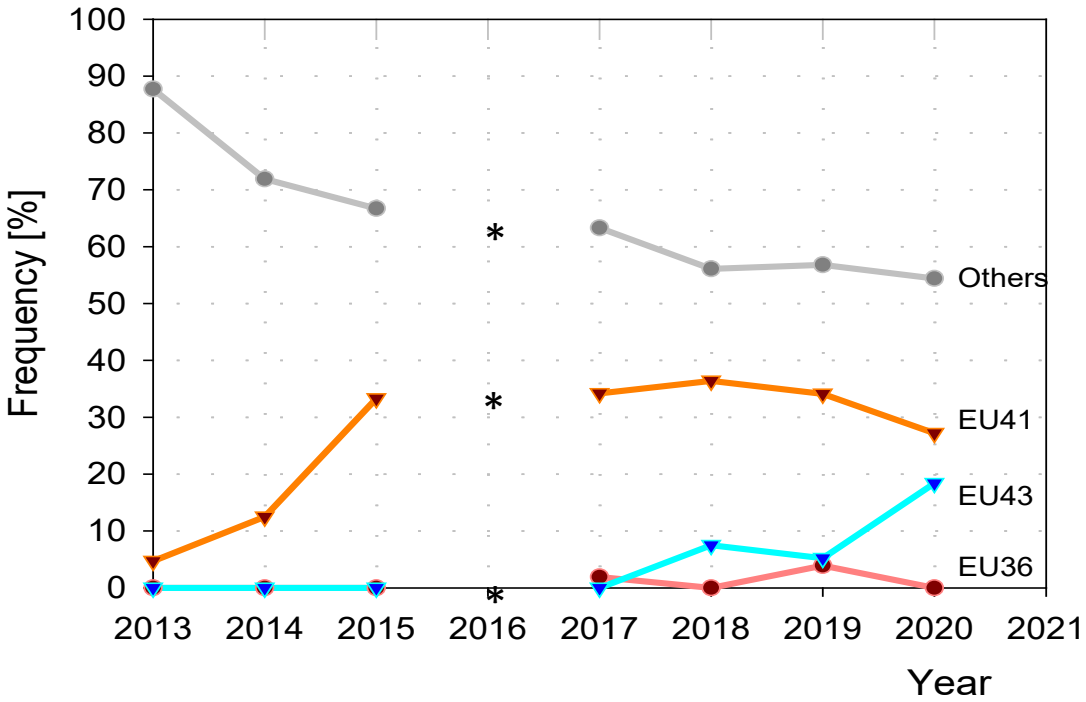



EU43 – On what varieties, 2018-2020?
Verdi
1
Sava
1
Sarion
1
Oleva
1
Avarna
1
Folva
1
Avenue
2
Wotan
2
Unknown
3
Stratos
5
Kardal
6
Kuras
19
0
2
4
6
8
10
12
14
16
18
20

Oospores in Denmark. Documented since 1997

Early sampling campaign in 2019





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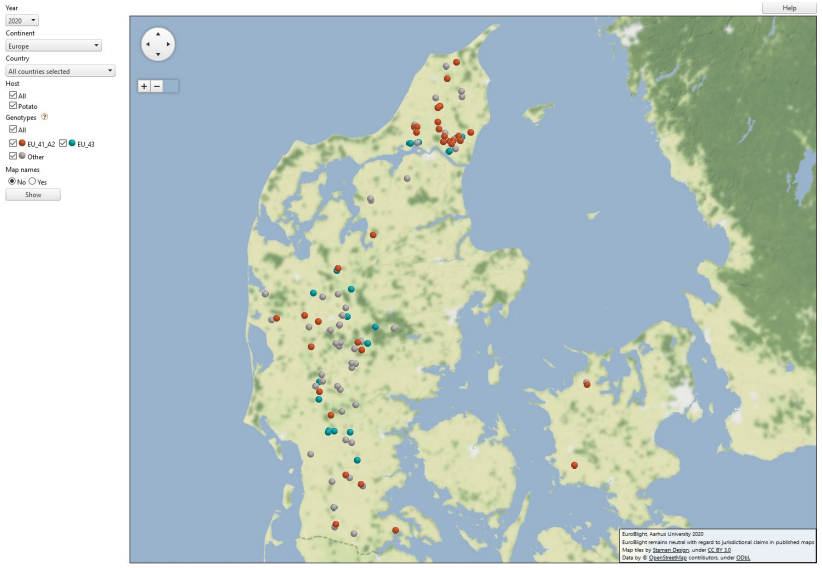

Some conclusions

Aggressive clones survives in infected tubers, The group of “Others” most of these probably survive as oospores.

Due to climate change, we have milder winters. More (infected) plants survive as dumps and as volunteer plants and this might explain the expansion of the clonal population.

Volunteer plants as “false crop rotations”

Increased pathogen diversity from oospore driven epidemics is a threat to a sustainable potato production in Europe

- Host specificity
- Erosion of host resistance
- Risk of fungicide resistance


Thank you for your attention