

VBORNET

"European Network for Arthropod Vector
Surveillance for Human Public Health"

AGM 2012, Riga

WP3: Mosquito distribution and surveillance maps

Period 4

Francis Schaffner

Invasive mosquitoes



Ae. aegypti
Ae. albopictus
Ae. atropalpus
Ae. japonicus
Ae. koreicus

Invasive mosquitoes: surveillance map

Known vector surveillance activities in Europe, including work done in the framework of ongoing control activities, research project or inventory studies

Invasive mosquitoes

Current known surveillance: March 2012

- Yes
- No
- No data
- No information

Ongoing

- Outermost regions
- Azores (PT)
 - Canary Islands (ES)
 - Madeira (PT)
 - Svalbard/Jan Mayen (NO)

Invasive mosquitoes

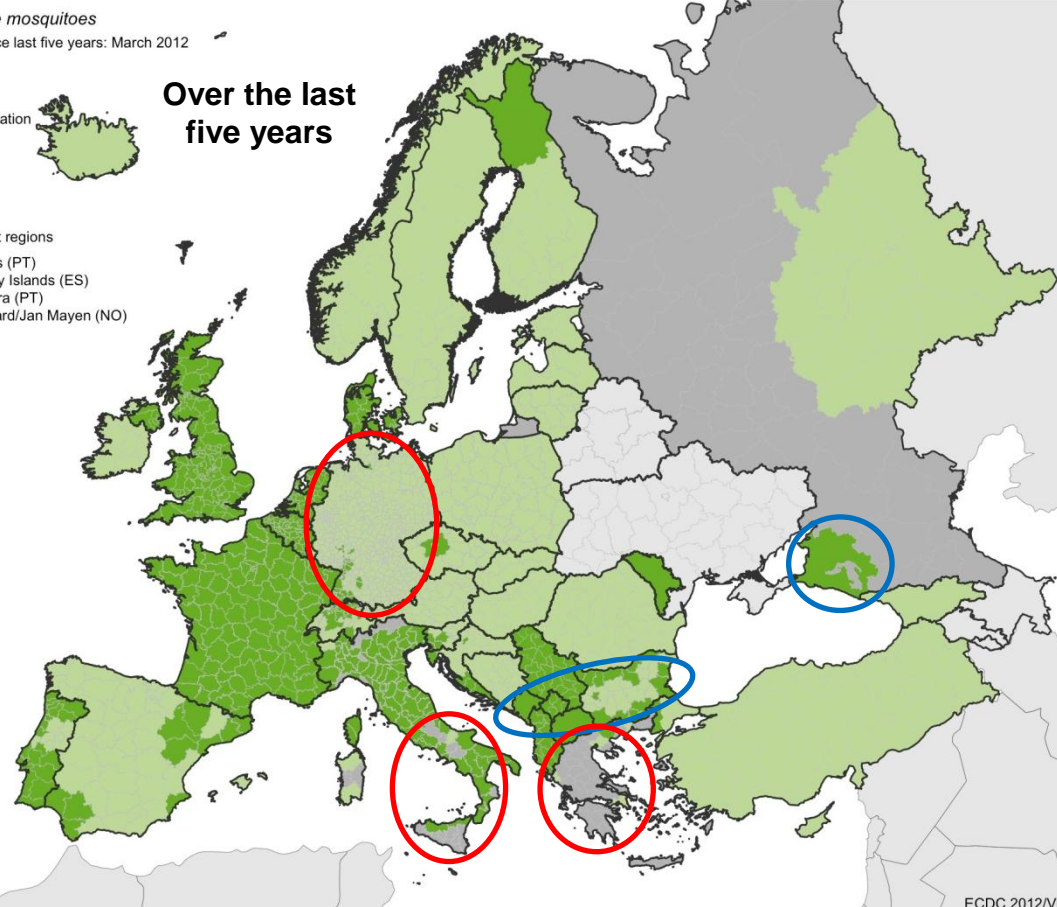
Surveillance last five years: March 2012

- Yes
- No
- No data
- No information

Over the last five years

Outermost regions

- Azores (PT)
- Canary Islands (ES)
- Madeira (PT)
- Svalbard/Jan Mayen (NO)



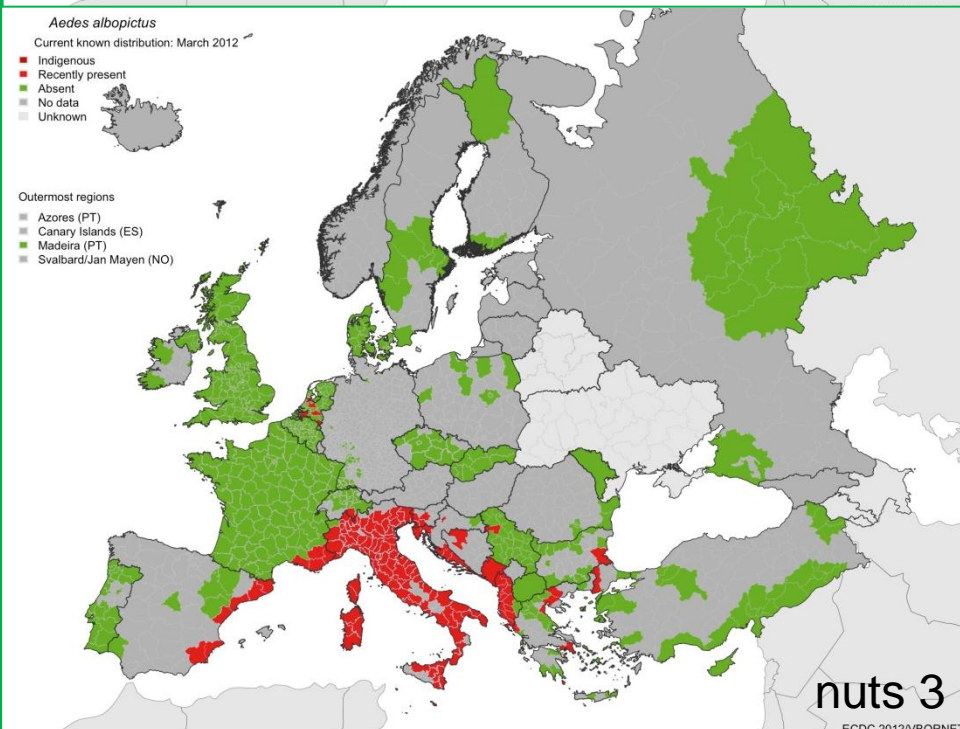
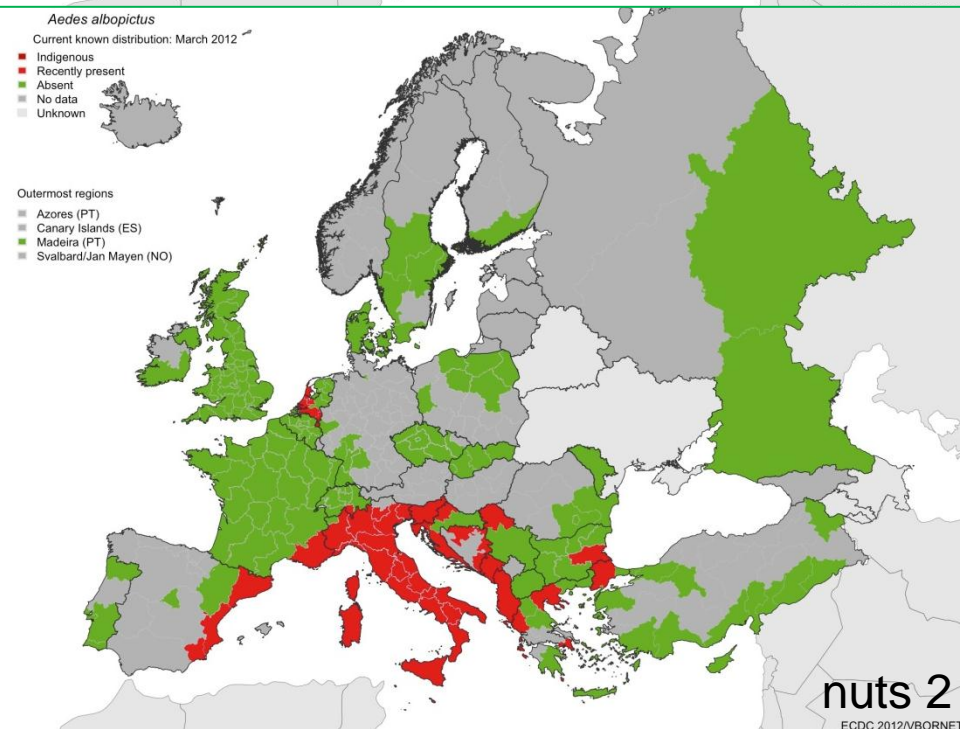
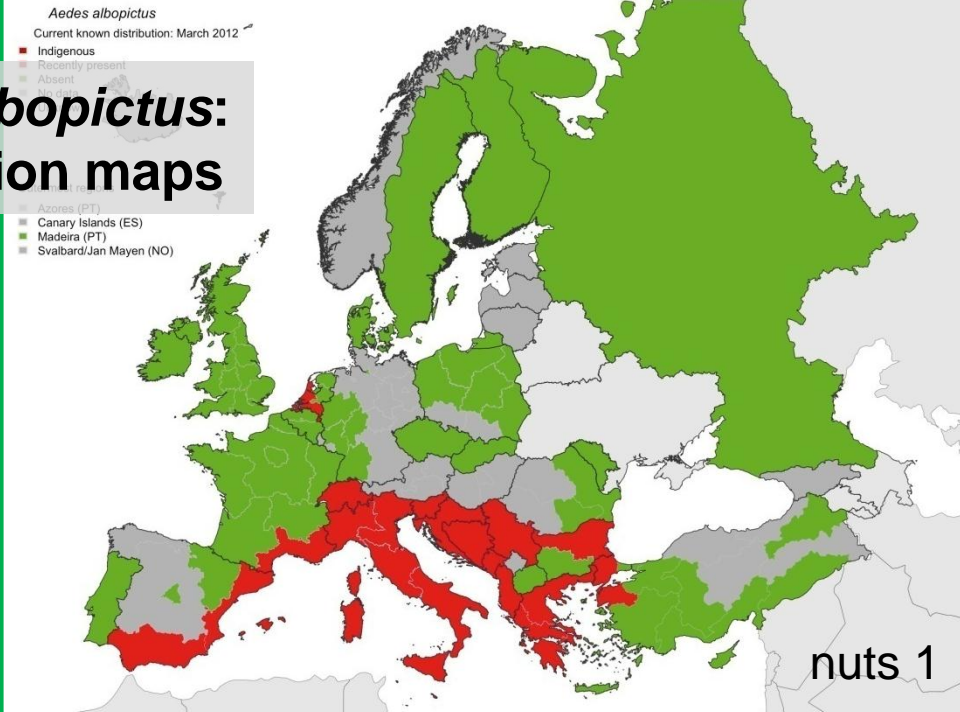
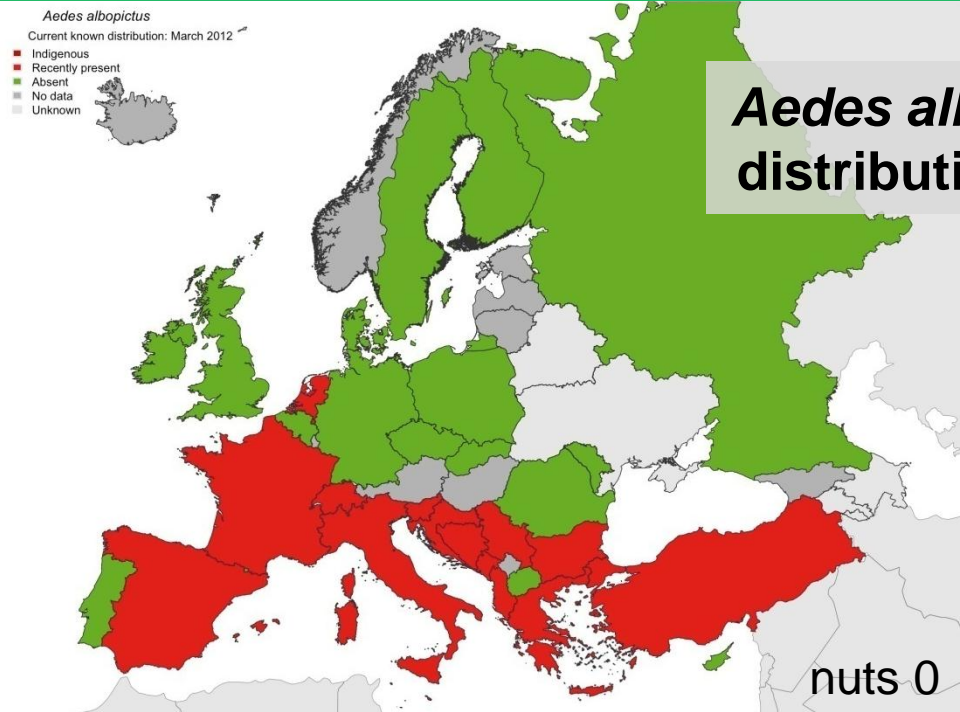
Dark green – Yes: vector surveillance exist

Light green – No: no vector surveillance exist

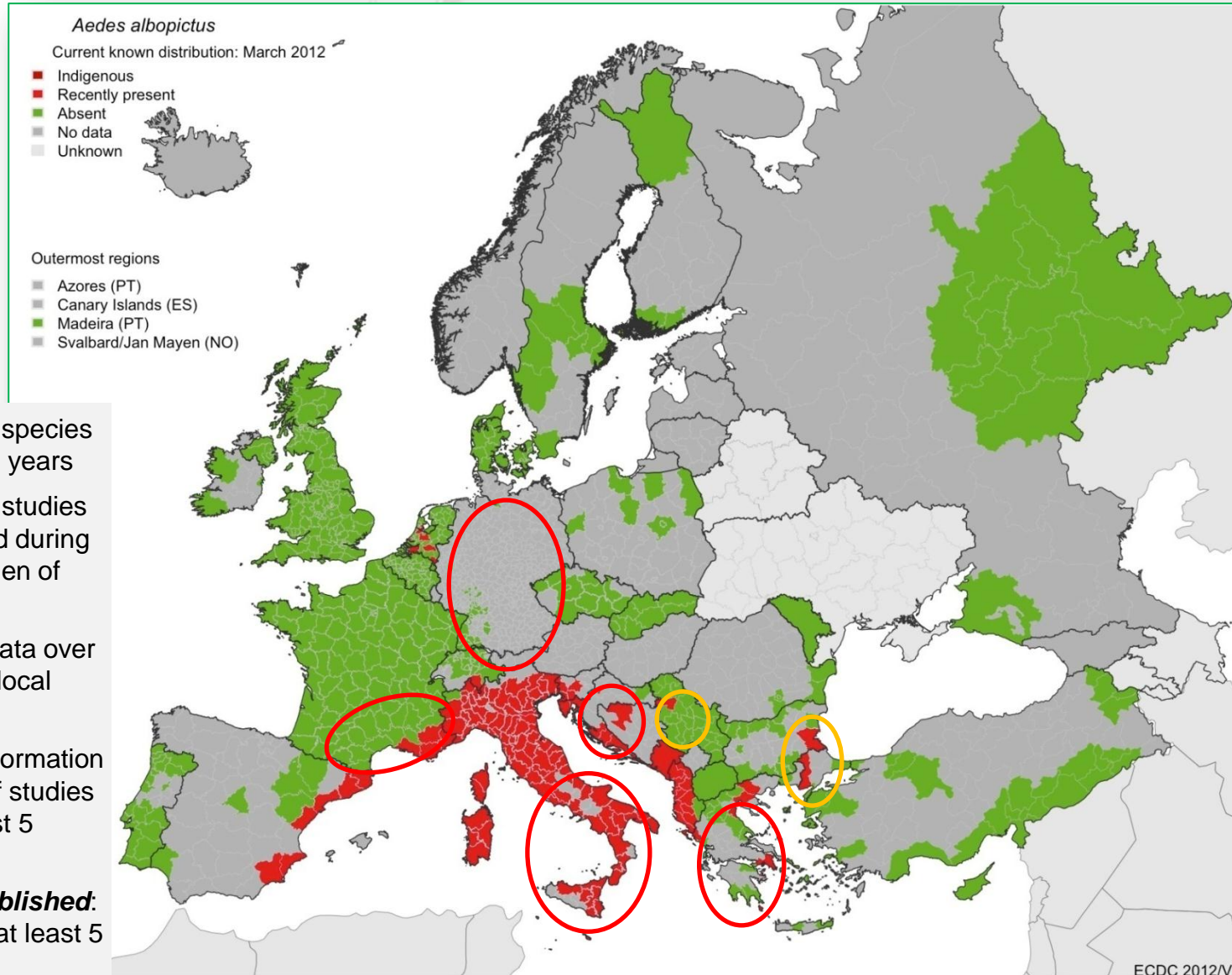
Medium grey – No data: no data over the last 5 years is available

Light grey – No information: no information is available on the existence of studies on mosquito fauna

Aedes albopictus: distribution maps



Aedes albopictus, distribution map



Observations in at least in one municipality of the shown administrative unit

Red – Recently present: the species was observed during the last 5 years

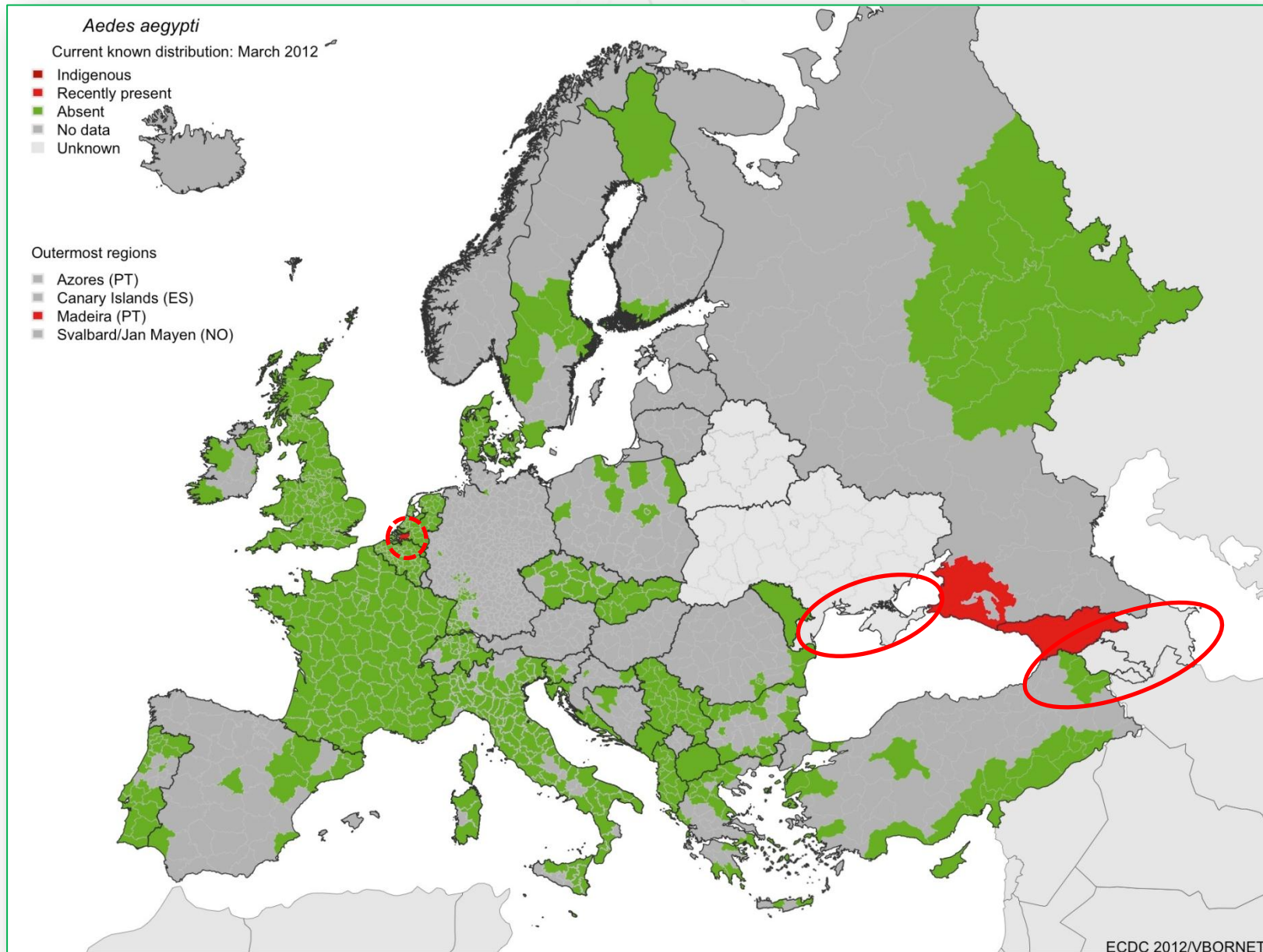
Green – Absent: surveys and studies on mosquitoes were conducted during the last 5 years and no specimen of the species was reported

Medium grey – No data: no data over the last 5 years is available to local experts

Light grey – Unknown: no information is available on the existence of studies on mosquito fauna over the last 5 years

To be added: Dark red – Established: the species is observed since at least 5 years counting back from the 'distribution status date'

Aedes aegypti, distribution map

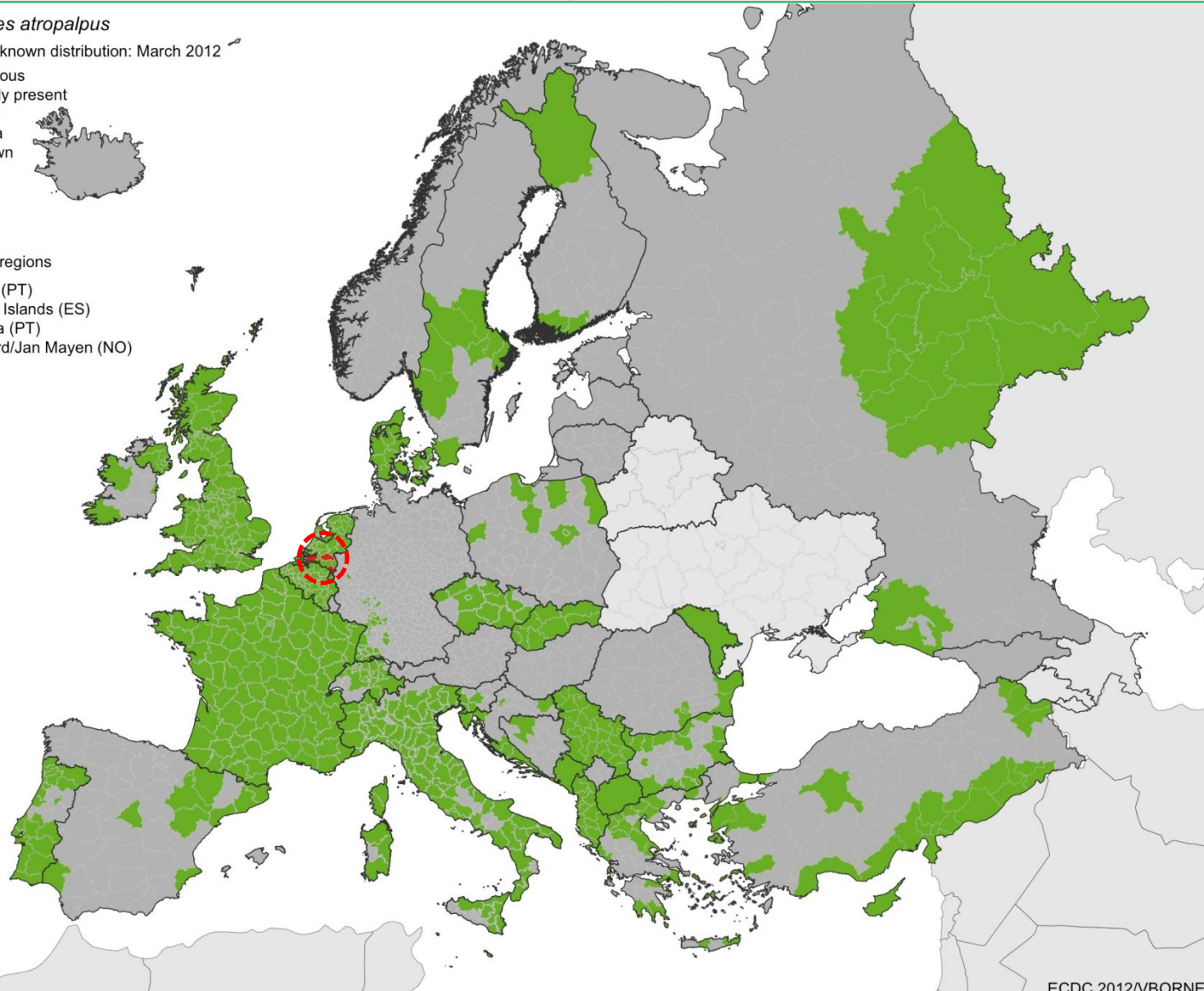


Aedes atropalpus, distribution map

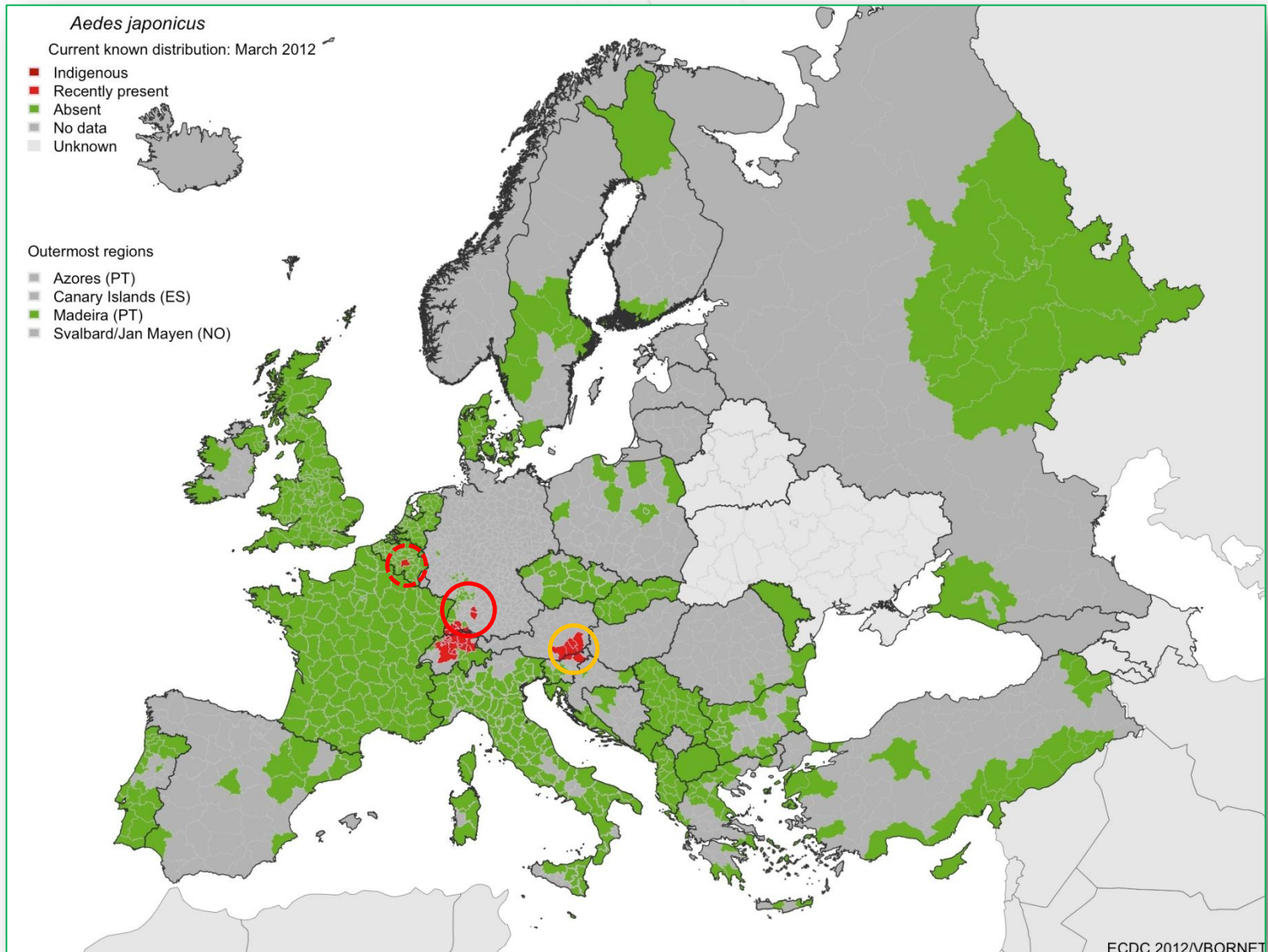
Aedes atropalpus

Current known distribution: March 2012

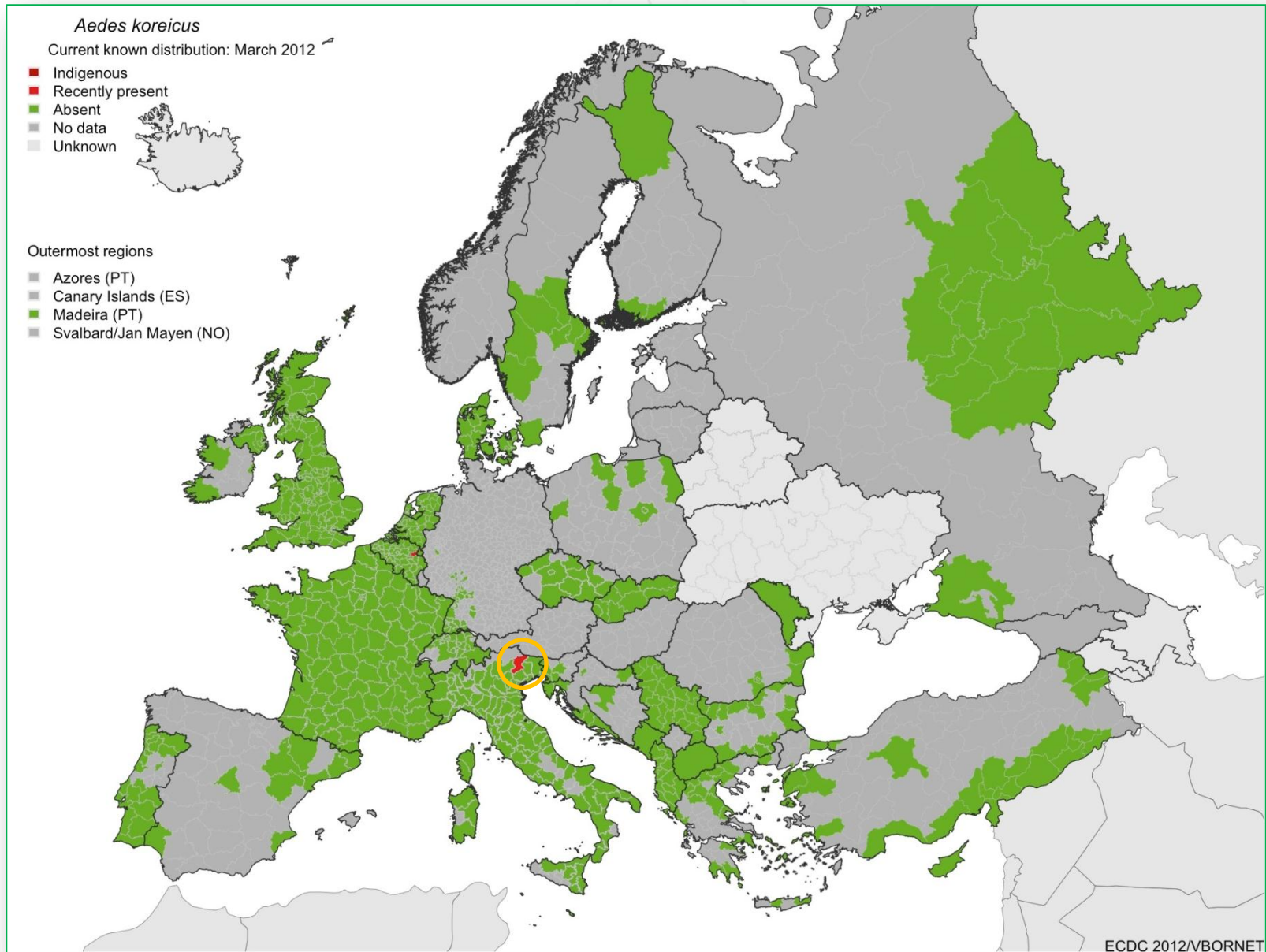
- Indigenous
 - Recently present
 - Absent
 - No data
 - Unknown
- Outermost regions
- Azores (PT)
 - Canary Islands (ES)
 - Madeira (PT)
 - Svalbard/Jan Mayen (NO)



Aedes japonicus, distribution map



Aedes koreicus, distribution map

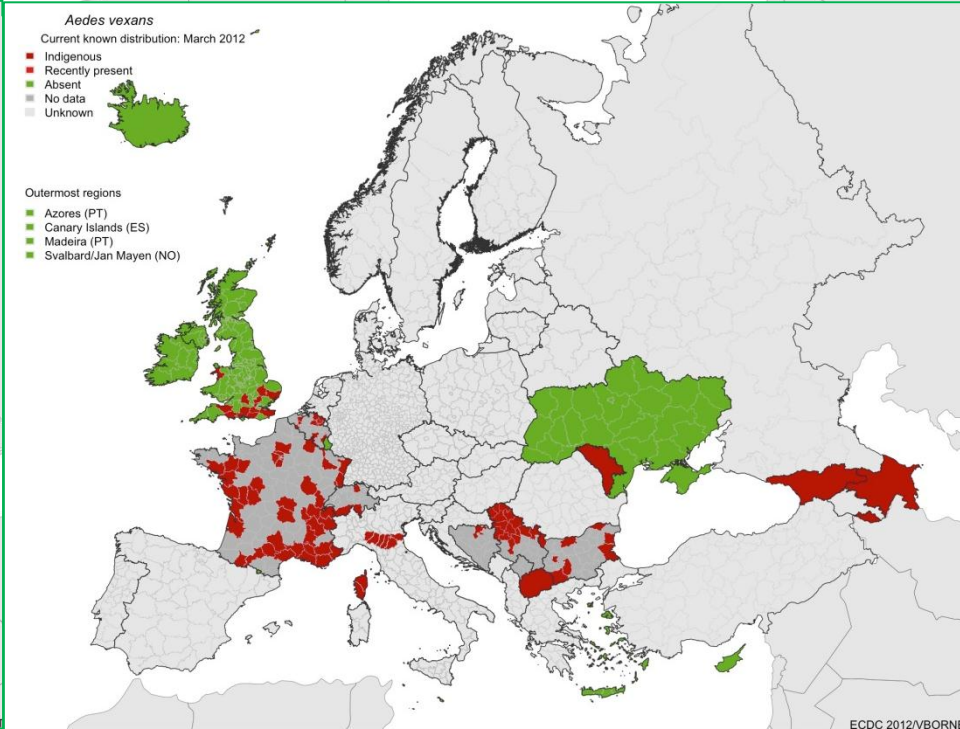
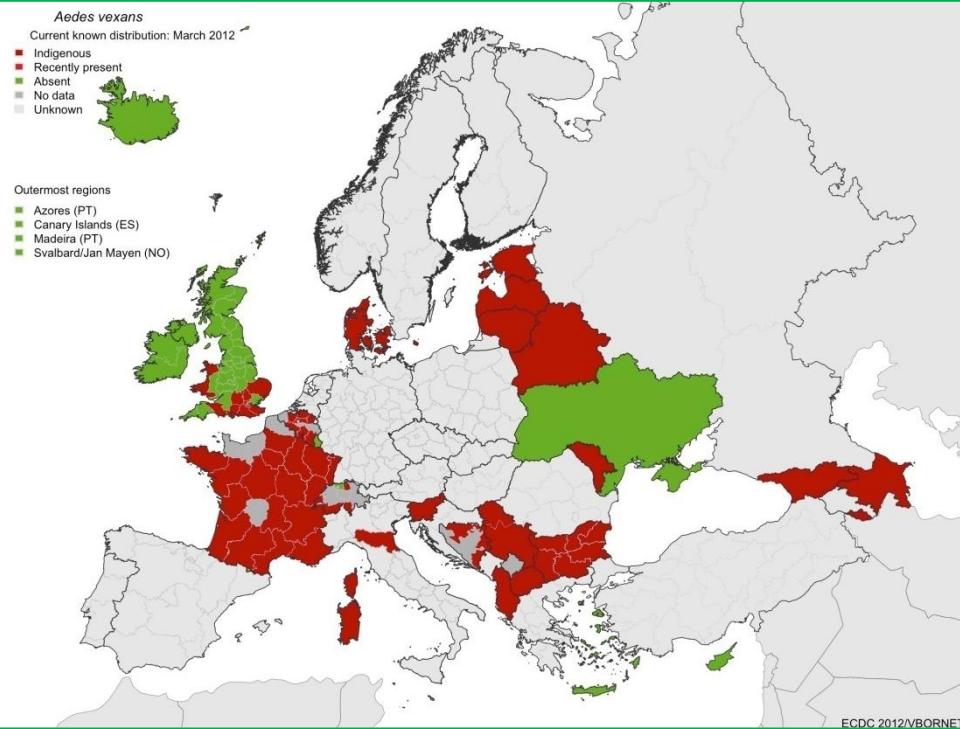


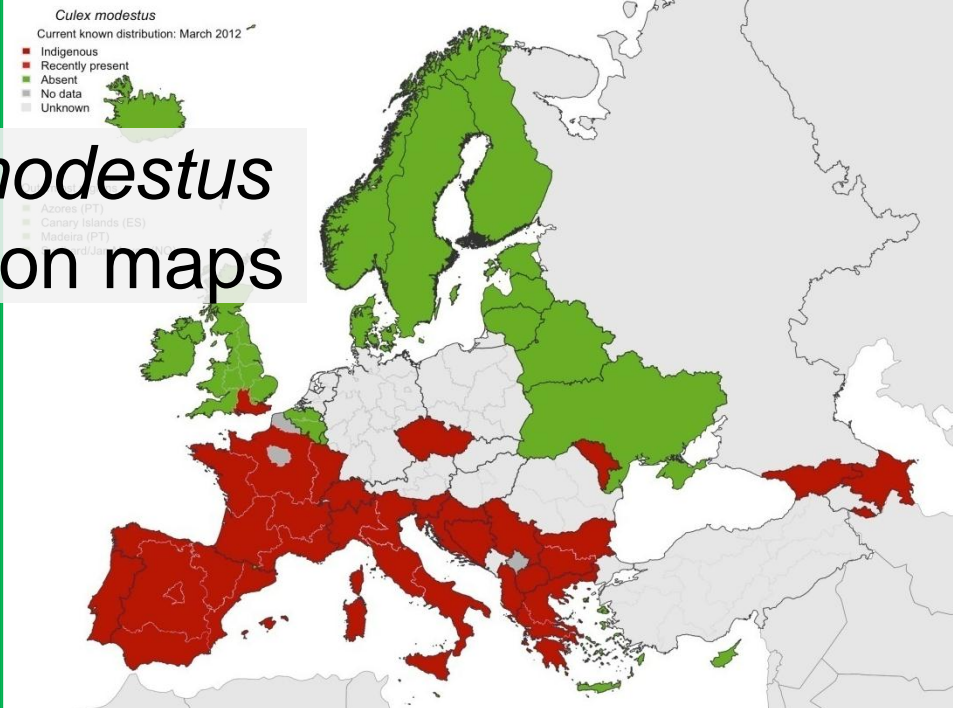
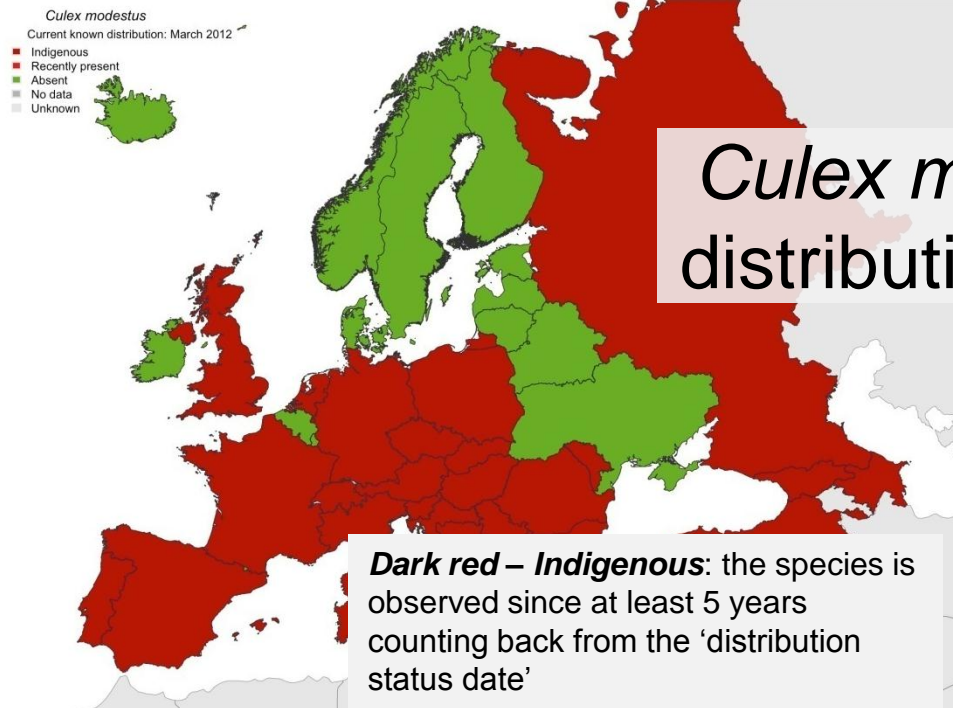
Other mosquito vectors



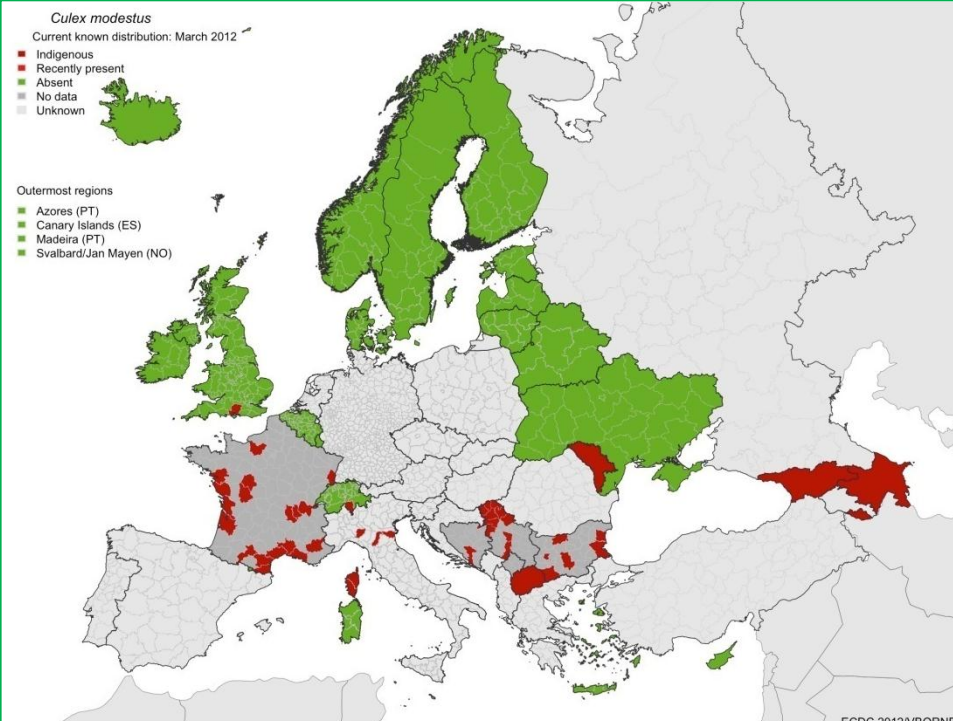
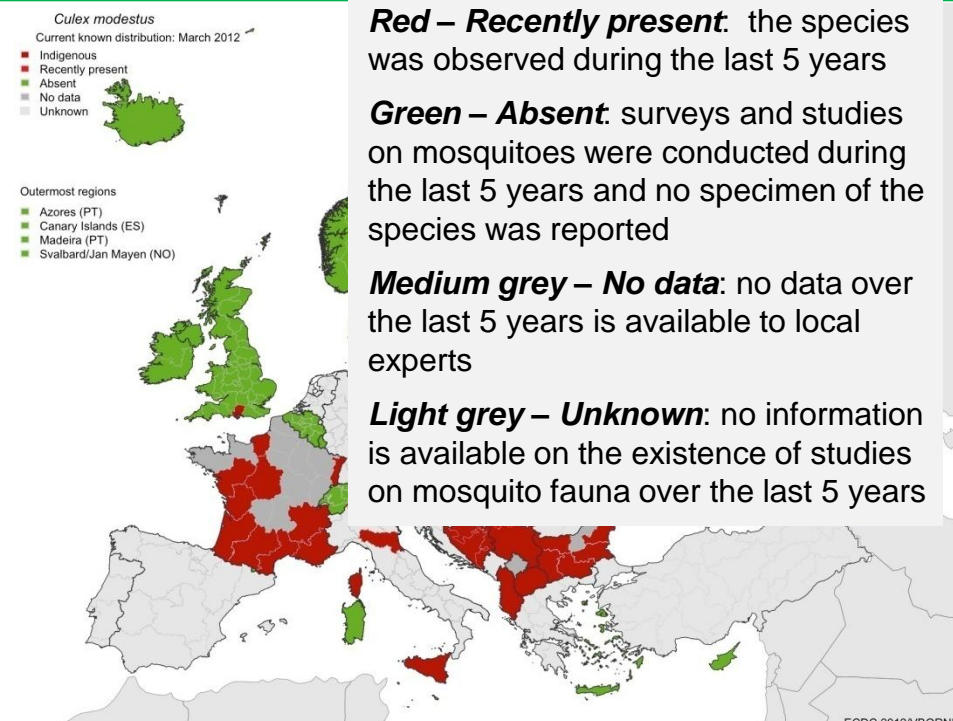
Aedes vexans
Culex modestus
Anopheles plumbeus

Aedes vexans distribution maps





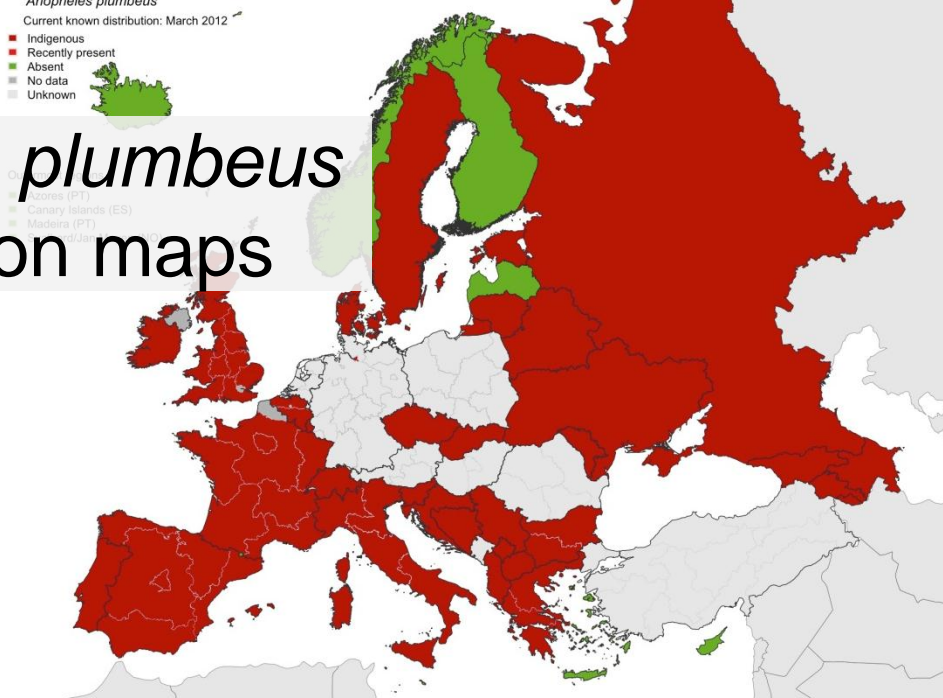
Culex modestus distribution maps



Anopheles plumbeus
Current known distribution: March 2012

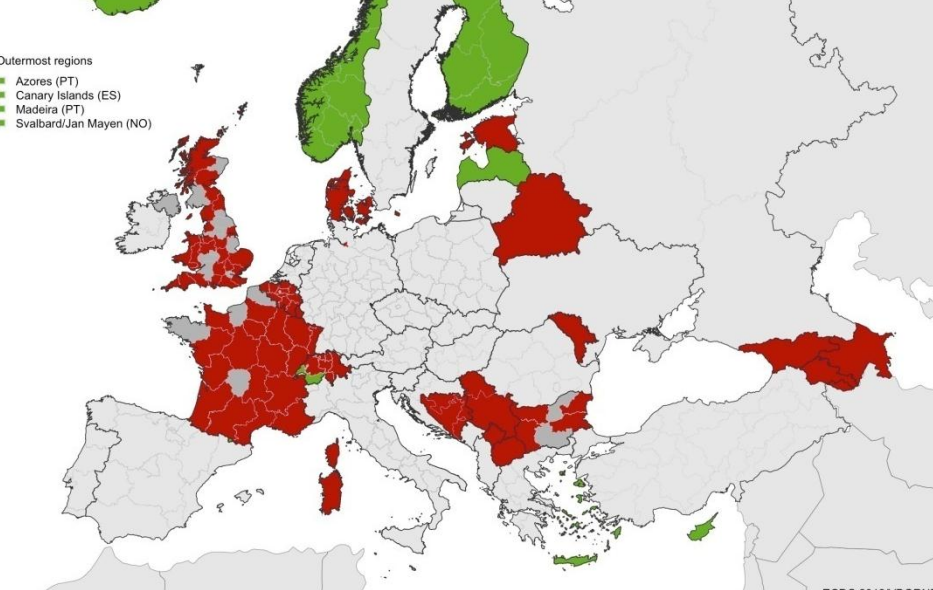


Anopheles plumbeus
Current known distribution: March 2012

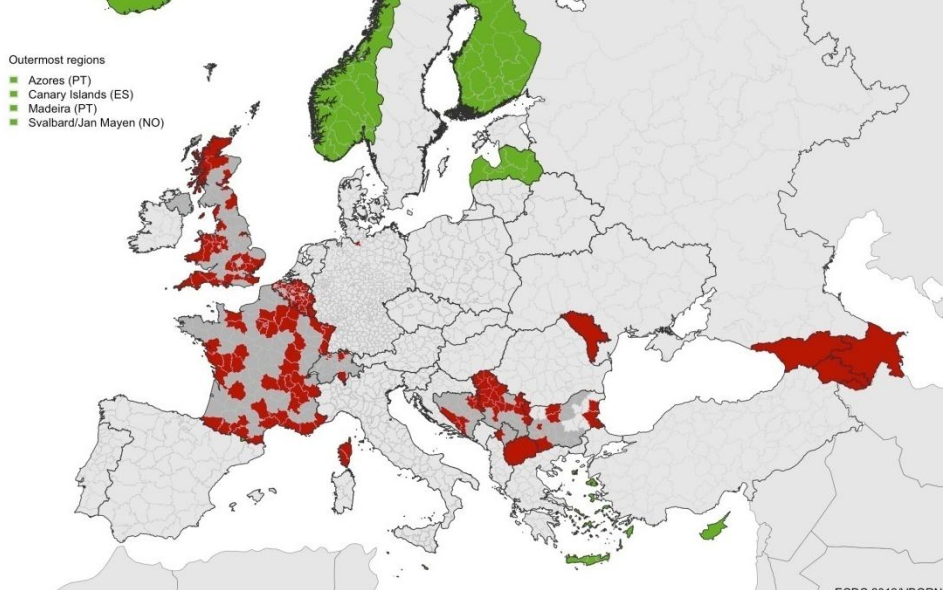


Anopheles plumbeus distribution maps

Anopheles plumbeus
Current known distribution: March 2012



Anopheles plumbeus
Current known distribution: March 2012



Perspectives

- Updating surveillance and distribution maps for invasive species
- Completing other vector maps on NUTS 3
- **Creating maps for main malaria vectors**
- Filling gaps including by modelling distribution
- Call for contribution:
 - ✓ Direct contacts to experts by e-mails
 - ✓ Dissemination of maps outputs
- Further analysis of literature data



**Acknowledgements to all
VBORNET contributors!**

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