Endangered area and overall phytosanitary risk

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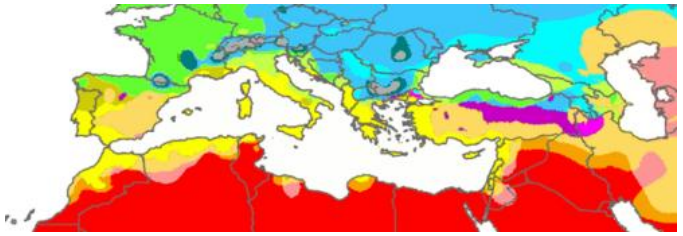
The endangered area

- **Definition**: Endangered area: An area where ecological factors favour the establishment of a pest whose presence in the area will result in economically important loss (ISPM 5).
- The overall area of suitable habitats where the presence of the plant would result in economically important loss constitutes the endangered area (ISPM 11).
- With reference to the area of potential establishment identified, the assessor should identify the area which would be at highest risk for economic, environmental and social impacts.
- The endangered area may be the whole PRA area or parts of it.

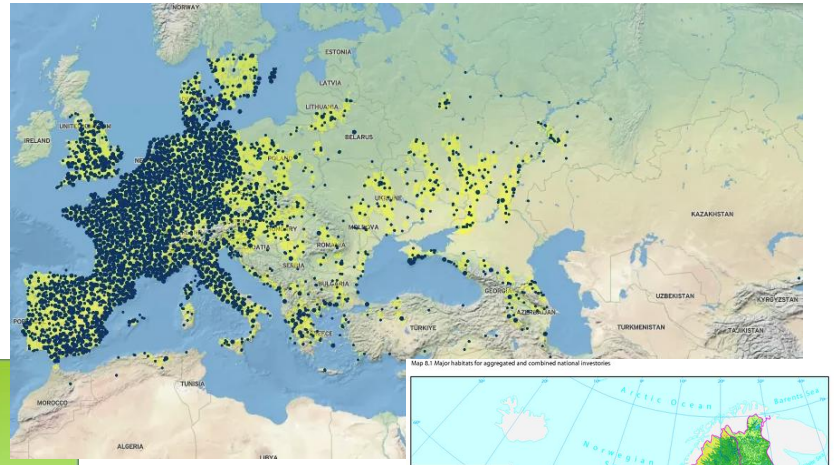


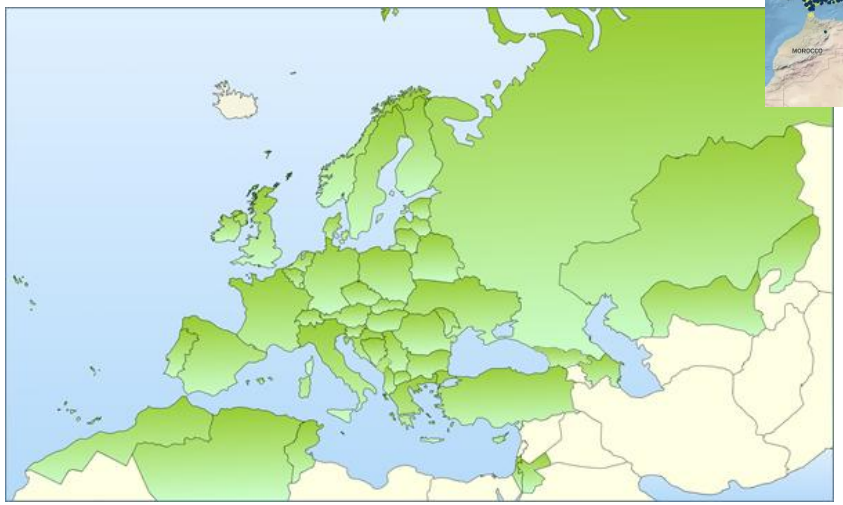
Defining the endangered area

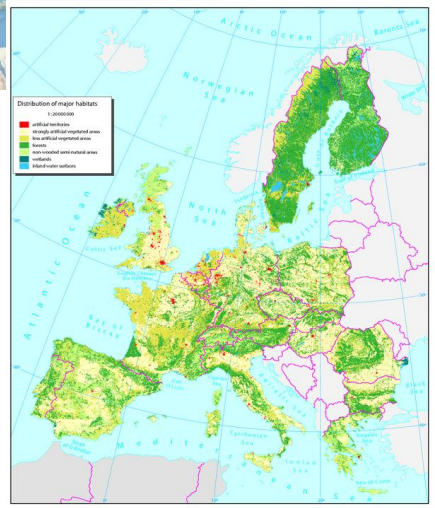
- In EPPO PRAs, the endangered area can be described in relation to national boundaries, climatic zones, ecoclimatic zones, host distribution, habitats, latitudes, longitudes and other environmental parameters.

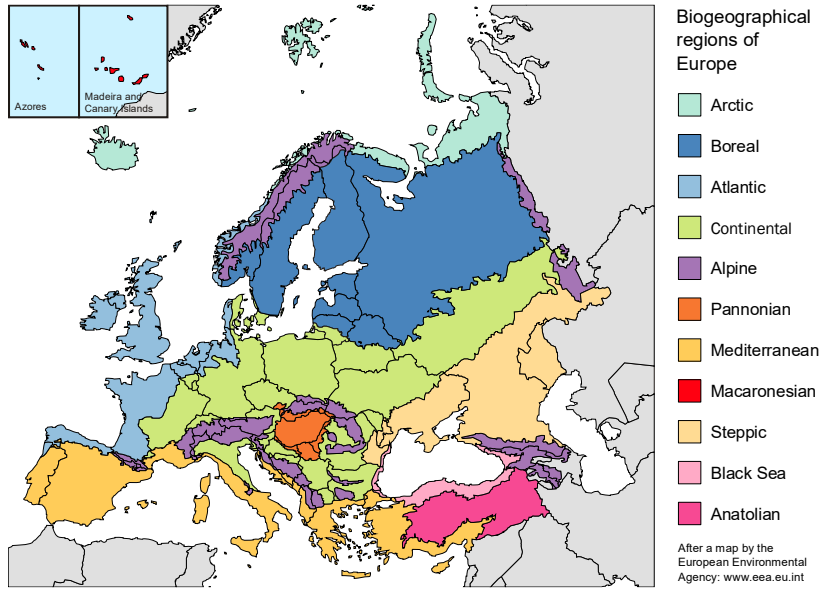








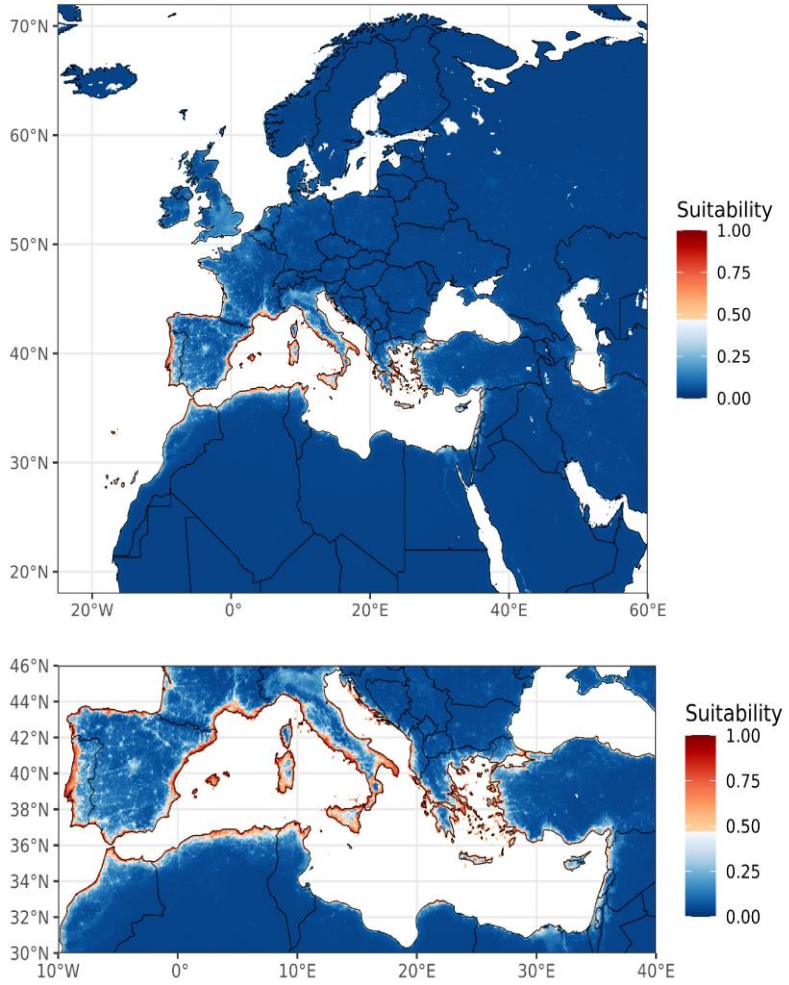




Senecio angulatus (EPPO A2 List)

The EWG considered that the endangered area includes Atlantic coastal areas of southern Europe (especially northern Spain), Mediterranean, Black sea and Macaronesia biogeographic regions. The endangered area includes all Mediterranean islands. Habitats at risk in the coastal area are those listed in section 7.





Ceratocystis ficicola (EPPO A2 List)

The endangered area constitutes the areas of the EPPO region where *F. carica* is established, with higher impact expected in the Mediterranean region where *F. carica* are commercially grown. It may also establish and cause damage in protected conditions throughout the EPPO region.

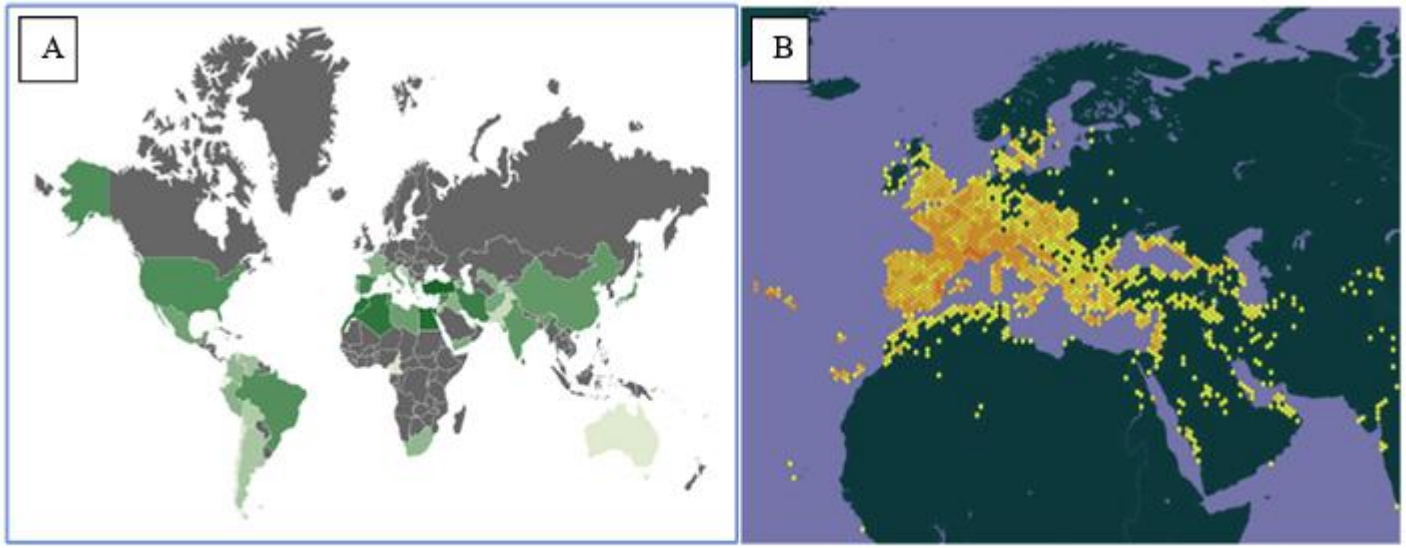


Figure 4. (A) Fig producing countries of the world (atlasbig.com; green) with darker green shaded countries depict a higher fig production; (B) distribution of *Ficus carica* in the EPPO region based on records in the GBIF (2023).

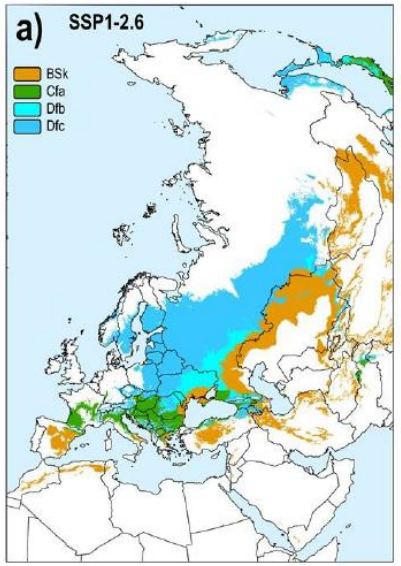


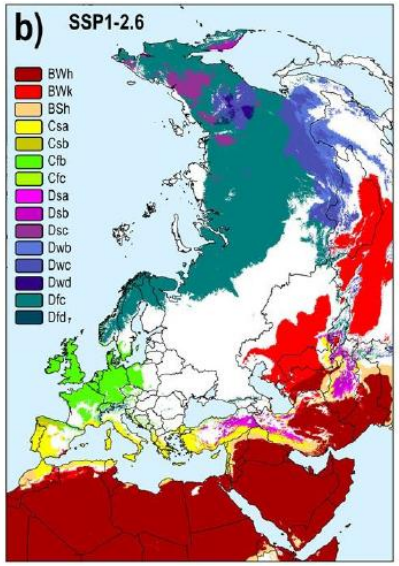


Clavibacter nebraskensis (EPPO A1 List)



- Potentially, all areas where maize is grown in the EPPO region (with some uncertainty).
- Similar climatic conditions where C. nebraskensis has had impact in its current distribution and in large maize-growing areas in the EPPO region. Impact under other climatic conditions cannot be excluded.
- Exact extent of the endangered area cannot be determined: establishment and impact depend on the presence of maize, but also on the growing of susceptible maize types and local agricultural practices (such as continuous maize production and reduced tillage).
- Uncertainty on whether economic impact would occur where agricultural practices that do not favour the pest (such as crop rotation and tillage) are widely used.



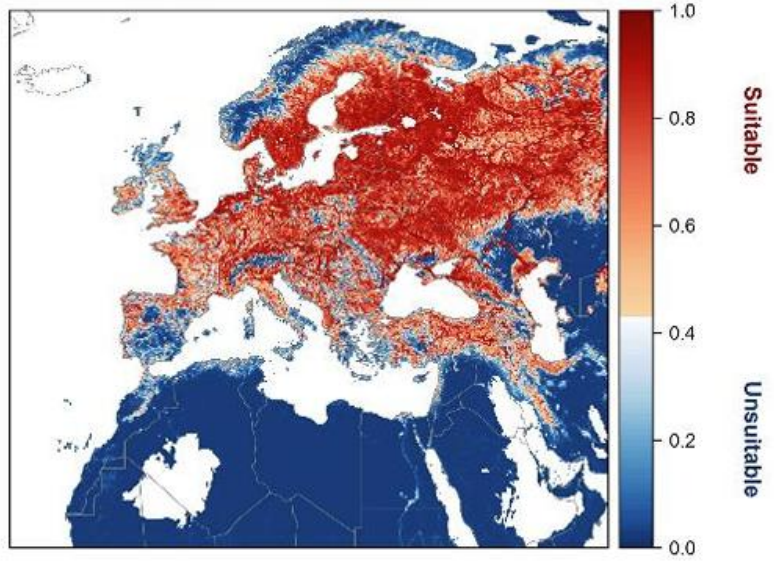


Group exercise

For your species:

Define the endangered area and describe in which part of the area of potential establishment significant impact is expected

Figure 8. Projected suitability for *Zizania latifolia* establishment in Europe and the Mediterranean region for 2041-2070 under climate change scenario SSP3-7.0, based on changes in climate but not wetland availability.



Phytosanitary risk to endangered area

- A rating for the overall assessment of risk in the endangered area should be given
- Overall phytosanitary risk is based on a three-level rating scale
- Rating of uncertainty is based on a three-level scale.



Summary[1] of the Express Pest Risk Analysis for "*pest name*"			
PRA area: *specify the PRA area being assessed*			
Describe the endangered area: *(see question 14)*			
Main conclusions *Overall assessment of risk: (Copy your answer from section 15).* *Phytosanitary Measures: indicate whether the pest should be recommended for immediate action in the PRA area. Summarize your answer from section 16.* *Note: If the assessment shows that phytosanitary measures are not required for your country but there are indications that other EPPO countries are at higher risk, mention it.*			
Phytosanitary risk for the *endangered area* *(Individual ratings for likelihood of entry and establishment, and for magnitude of spread and impact are provided in the document)*	High ☐	Moderate ☐	Low ☐
Level of uncertainty of assessment *(see section 17 for the justification of the rating. Individual ratings of uncertainty of entry, establishment, spread and impact are provided in the document)*	High ☐	Moderate ☐	Low ☐
Other recommendations: • *Inform EPPO or IPPC or EU* • *Inform industry, other stakeholders* • *State whether a detailed PRA is needed to reduce level of uncertainty (if so, state which parts of the PRA should be focused on)* • *Specify if surveys are recommended to confirm the pest status* • *State what additional work/research could help making a decision*			



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