

# Status assessment of European Hoverflies (Syrphidae) – European Red List of Hoverfies (EU and pan-Europe)

(No. 07.0202/2018/792937/SER/ENV.D.2)

dr. Laura Likov
University of Novi Sad, Serbia

*Chrysotoxum festivum* LC © Frank Vassen

**Status assessment of European Hoverflies (Syrphidae) – European Red List of Hoverflies (EU and pan-Europe)'**
**(No. 07.0202/2018/792937/SER/ENV.D.2)**
**three-year project (2019-2021)**



*Rhingia campestris* LC
© Frank Vassen

Hoverfly Specialist Group

RED LIST

SSC Species Survival Commission

IUCN

*EU Pollinators Initiative* (EPI)

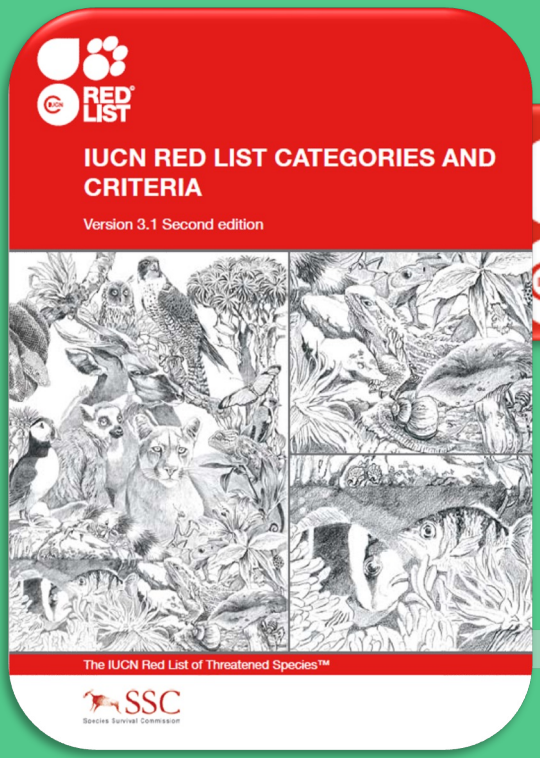
European Commission

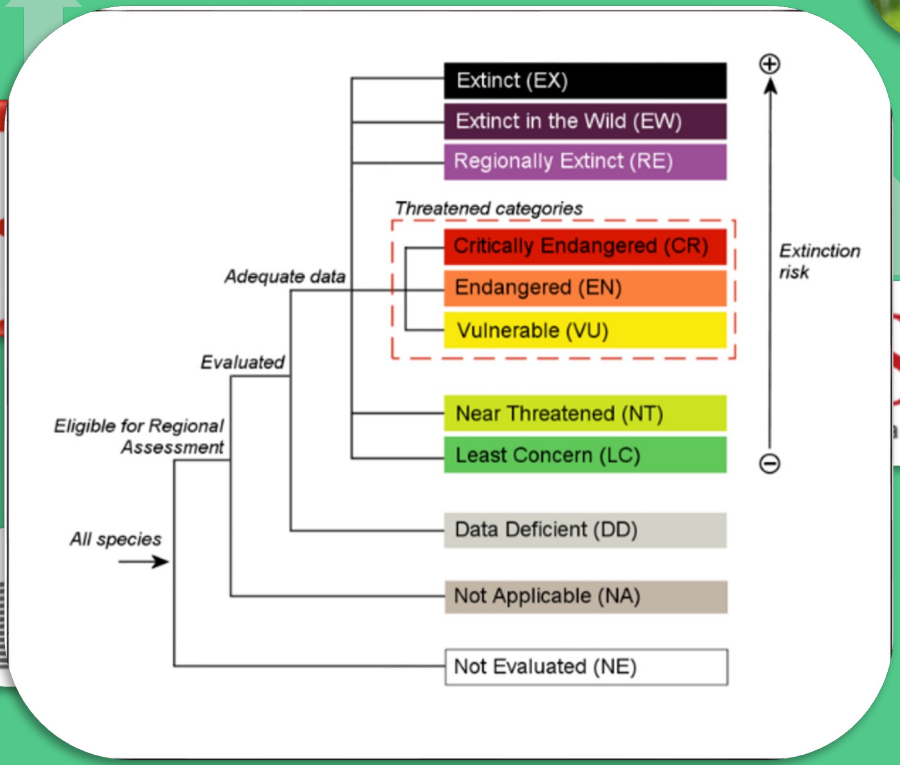
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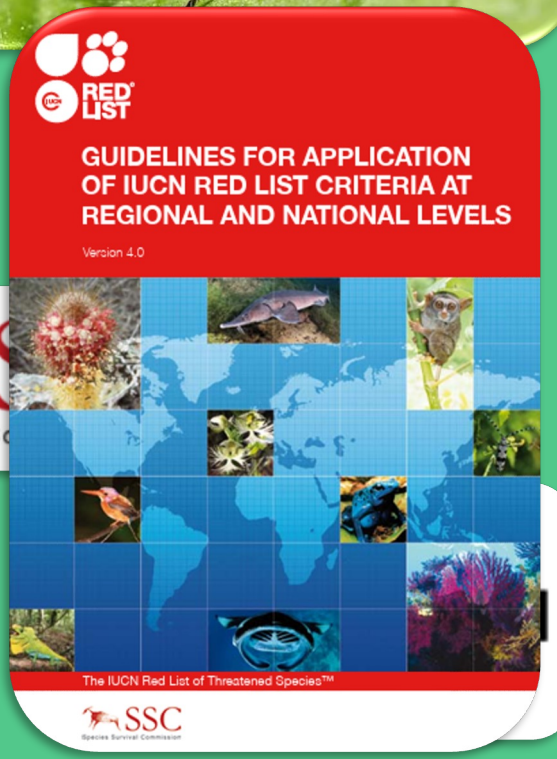
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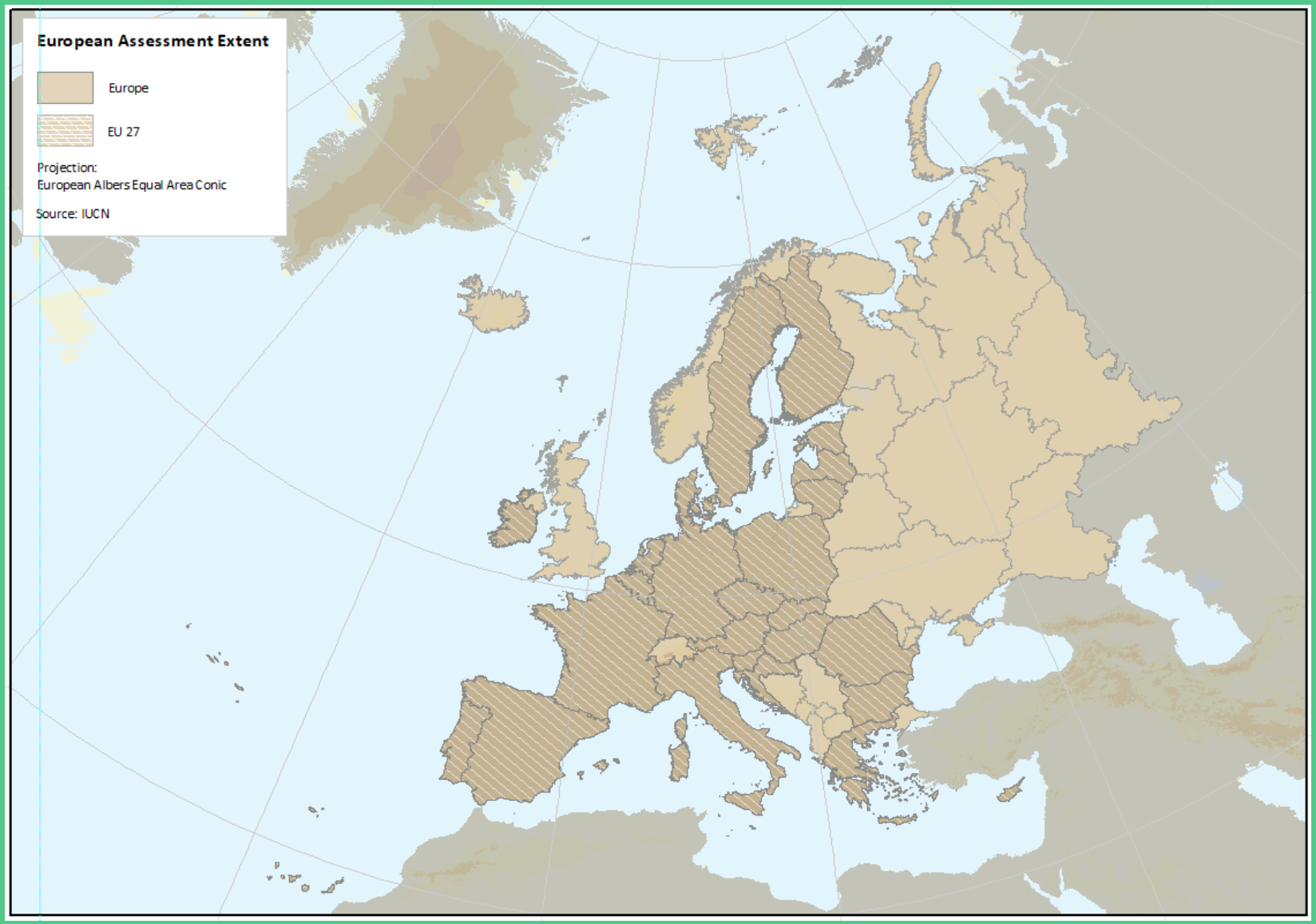
## three-year project (2019-2021)






European Assessment Extent
Europe
EU 27
Projection:
European Albers Equal Area Conic
Source: IUCN

Taxonomy | Assessment Information | Geographic Range | Population | Habitat and Ecology | Threats | Use and Trade

Conservation Actions | Bibliography | External Data | *Expand all*

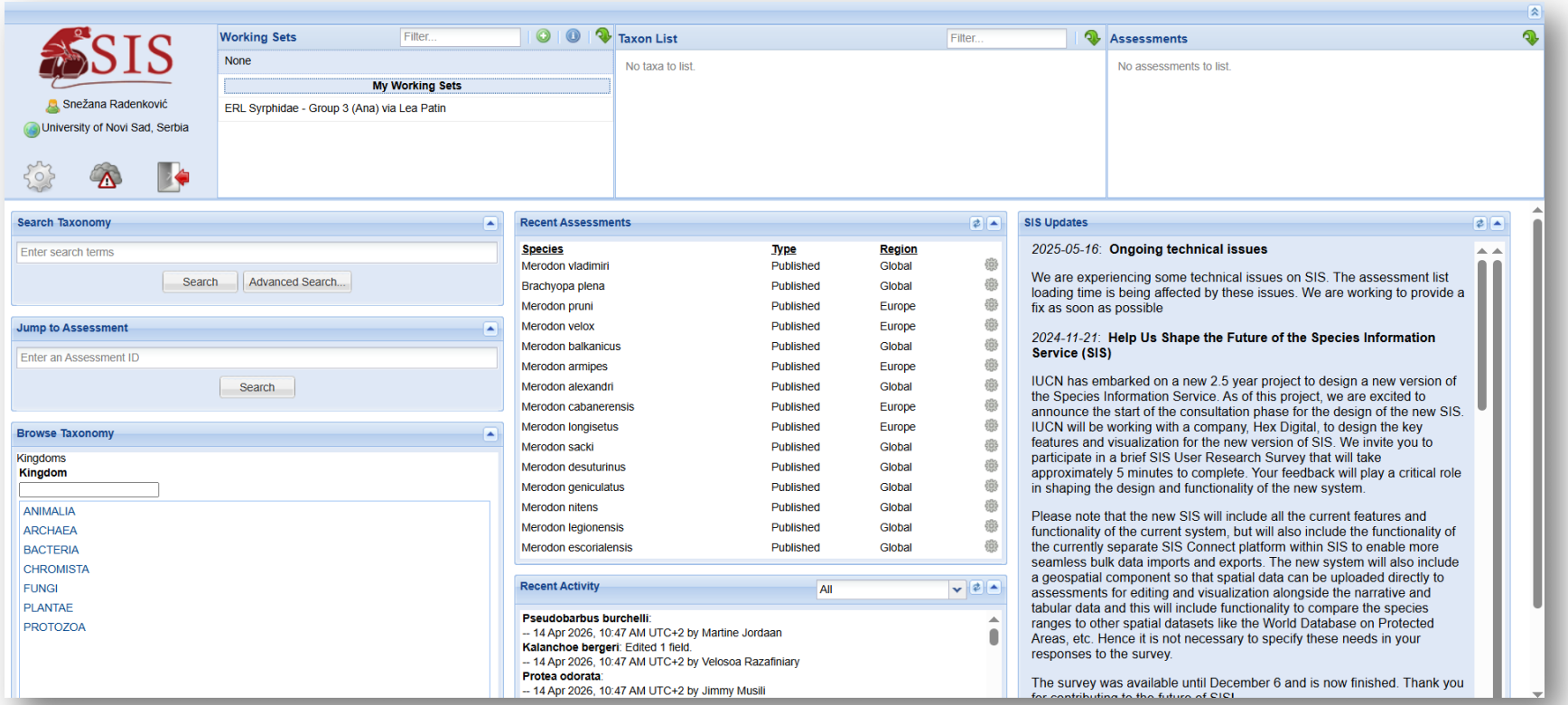
1) Taxonomic classification and notes
2) Distributional range and list of countries of occurrence
3) Population information and overall population trends
4) Habitat preferences and biological information
5) Species use and trade
6) Major threats
7) Research needs
8) Conservation measures
9) IUCN Red List Category and Criteria rationale
10) Key references



*Sericomyia lappona* LC © Frank Vassen

Taxonomy | Assessment Information | Geographic Range | Population | Habitat and Ecology | Threats | Use and Trade

Conservation Actions | Bibliography | External Data | *Expand all*



**12 Lead Assessors**
**and**
**11 Contributors**





*Episyrphus balteatus* LC
© Hans Hillewaert

Table 2. Summary of numbers of hoverfly species within each Red List Category (numbers of endemic species are shown in brackets).

| IUCN Red List Categories | No. species Europe (no. endemic species) | No. species EU27 (no. endemic species) |
|---|---|---|
| Extinct (EX) | 0 | 0 |
| Extinct in the Wild (EW) | 0 | 0 |
| Regionally Extinct (RE) | 1 (0) | 2 (0) |
| Critically Endangered (Possibly Extinct) (CR (PE)) | 2 (1) | 1 (1) |
| Critically Endangered (CR) | 32 (20) | 42(13) |
| Endangered (EN) | 204 (123) | 200 (57) |
| Vulnerable (VU) | 76 (30) | 70 (16) |
| Near Threatened (NT) | 61 (26) | 68 (8) |
| Least Concern (LC) | 469 (66) | 443 (1) |
| Data Deficient (DD) | 45 (17) | 33 (9) |
| Total number of species assessed | 890 (282) | 859 (105) |
| Not Applicable (NA) | 2 (0) | 2 (0) |
| Not recorded | | 31 |
| **Total number of species considered** | **892 (282)** | **892 (105)** |

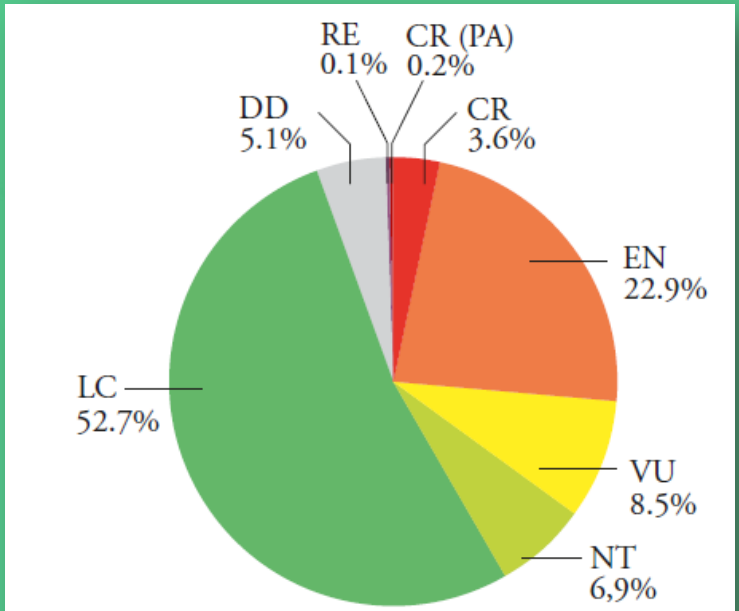



Figure 11. IUCN Red List status of hoverflies in Pan-Europe



*Pocota personata* LC © Frank Vassen

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*S. scripta* LC © Frank Vassen

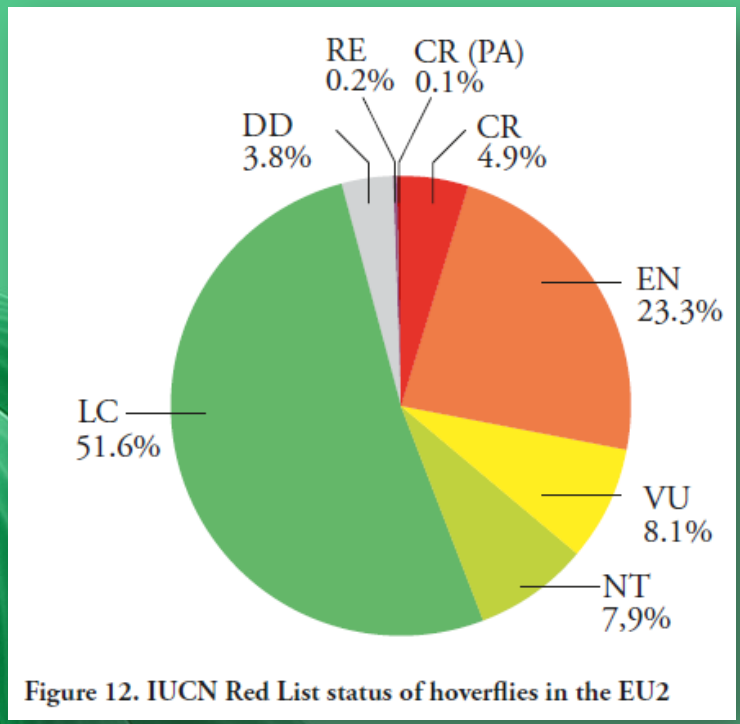



Figure 12. IUCN Red List status of hoverflies in the EU2



*Chalcosyrphus valgus* LC
© Frank Vassen

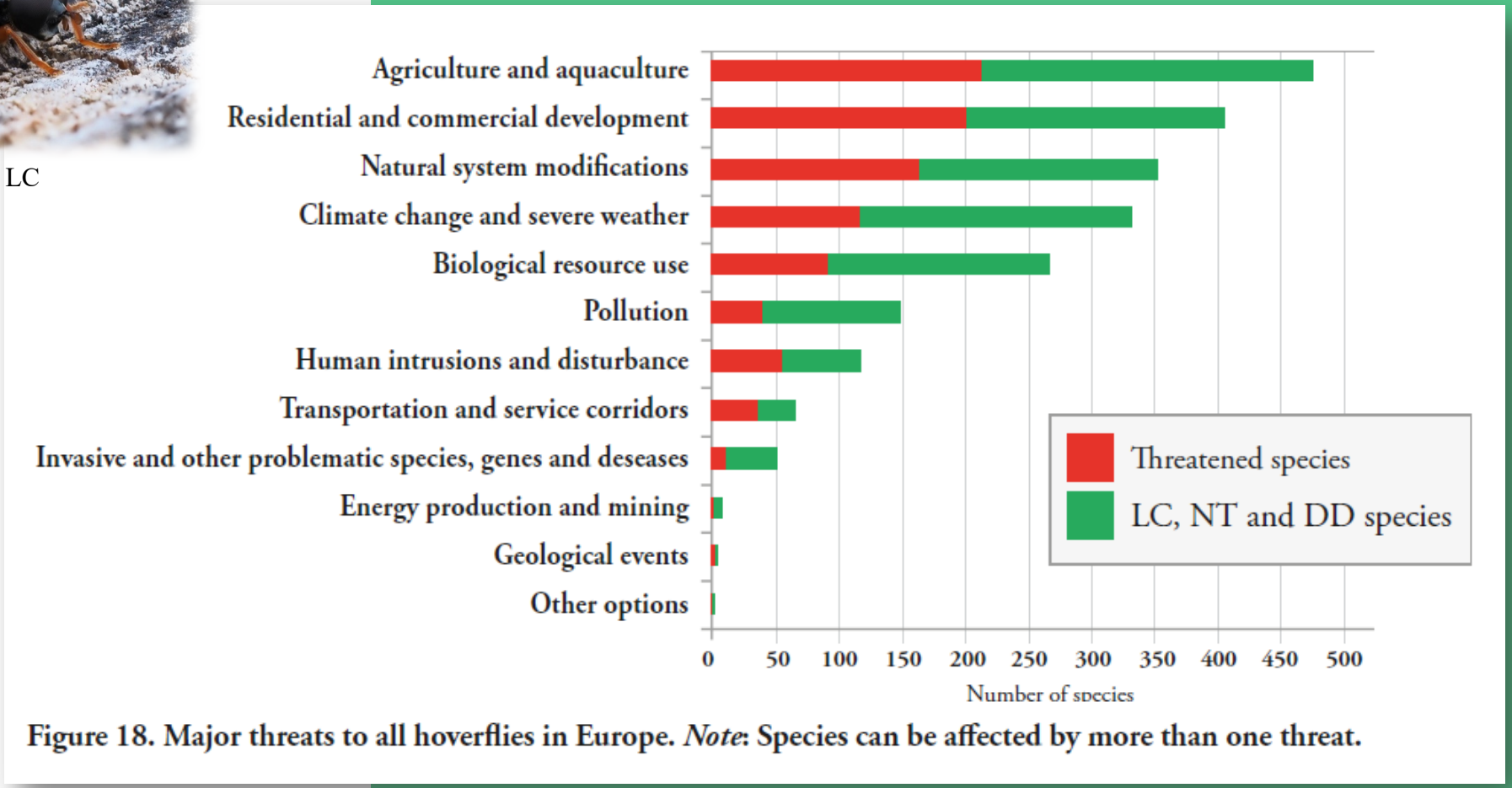



**Figure 18. Major threats to all hoverflies in Europe. *Note*: Species can be affected by more than one threat.**

72.4% of the species assessed (644 species) have been recorded in at least one protected area (including NP, Natura 2000 sites or nature reserves)



*Caliprobola speciosa* LC © Frank Vassen

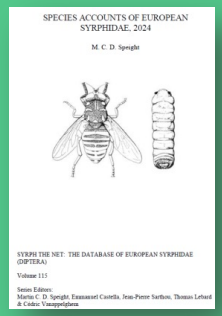
RESULT




Vujić, A. et al. (2022) *Pollinators on the edge: our European hoverflies. The European Red List of Hoverflies*. Brussels, Belgium: European Commission, 96 pp.



*Cheilosia chloris* LC © Frank Vassen




**Syrph the Net**

**European Red List of Hoverflies**

TaxoFly
Taxonomic resources for European hoverflies

SAFEGUARD

**next projects ...**



*Eristalis tenax* LC © Frank Vassen


THANK
YOU!
*Helophilus pendulus* LC © Frank Vassen
European
Commission
IUCN
RED
LIST
SSC
Species Survival Commission