









4th Natura 2000 Boreal Seminar Helsinki, Finland





















The improvement pledge

Natura 2000 Biogeographical Process

Ambition of the pledge process:

- Improvement of status and trends for 30 % of species and habitats assessments at MS level
- No further deterioration in conservation trends and status
- No unknown assessments due to lack of data
- Identifying limitations to achieving non-deterioration



Marsh saxifraga (*Saxifraga hirculus*)

©Saxifraga- Bart Vastenhouw















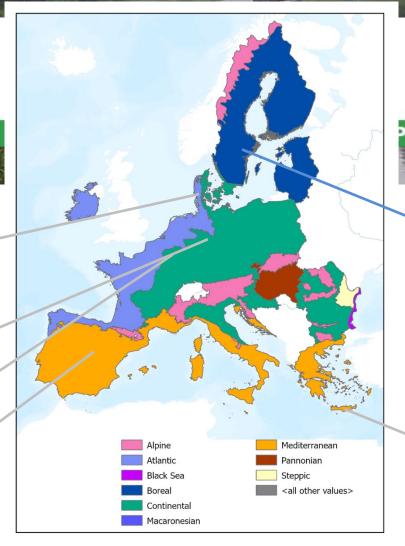


Denmark

Germany

Luxembourg

Spain



Process

Sweden

Pledges received from Member States so far (blue = Boreal region)

Cyprus

















Analysis undertaken so far...

Natura 2000 Biogeographical Process

Member State level

- Completeness
- 30 % improvement target reached

Boreal region

- Habitats and species groups pledged for improvement & non -deterioration
- Current Conservation status of pledged species and habitats groups for improvement & non-deterioration
- Habitat types and species for which deterioration is unavoidable











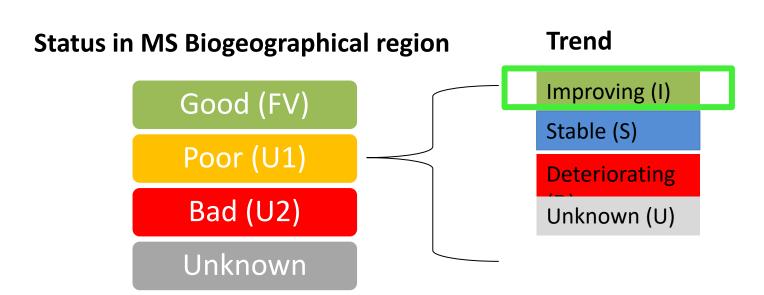






How is status assessed for Habitats Directive?

Natura 2000 Biogeographical Process



For more information: https://www.eea.europa.eu/en/topics/at-a-glance/nature/state-of-nature-in-europe-a-health-check/explore-nature-reporting-data

















How is status assessed for Birds Directive?

Natura 2000 Biogeographical Process

Trend (short & long term) Increasing (I) Stable (S) Fluctuating (F) Decreasing (D) Unknown/uncertai n (U)

For more information: https://www.eea.europa.eu/en/topics/at-a-glance/nature/state-of-nature-in-europe-a-health-check/explore-nature-reporting-data















Member State -Completeness

Natura 2000 Biogeographical Process

Are all species and habitat assessments with a non-favourable/non-secure status or unknown status covered?

| | Habitats | Species | |
|---------|----------|---------|--|
| U1-I | Х | Х | |
| U1 -S | Х | Х | |
| U1-D | х | Χ | |
| U1- UKN | Х | х | |
| U2- I | Х | Х | |
| U2- S | х | х | |
| U2-D | x | X | |
| U2-UNK | x | х | |
| FV -I | | | |
| FV-S | | | |
| FV-D | | | |
| FV-UNK | | | |
| XX | х | х | |

| Birds – short term trend | |
|--------------------------|---|
| secure | |
| near threathened | x |
| declining | х |
| depleted | х |
| fluctuating | х |
| unknown | х |











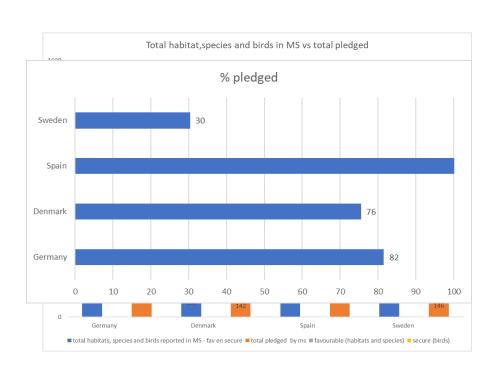






Member State -Completeness

Natura 2000 Biogeographical Process



Conclusions

- Sufficiency of pledges is relatively high
- Swedish pledge is low compared to other pledges submitted
- Species not pledged:
 - Wintering and passing birds
 - Habitats and species with stable or increasing trends (GE/DK)
 - Data information errors











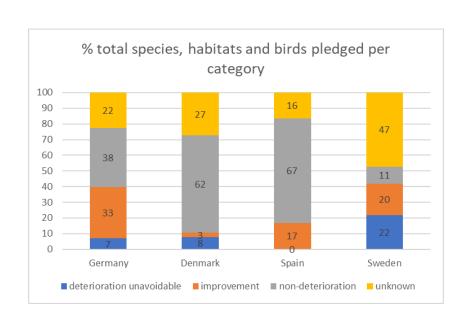






Member State - 30% improvement target reached

Natura 2000 Biogeographical Process



Do Member States pledge to improve 30% of species and habitat assessments for achieving improving trends by 2030?

- Not all Member States reach the target
- Sweden & Denmark pledges low
- Possible explanation
 - Unclarity on whether all species or only species with declining trend needed to be pledged for improvement?









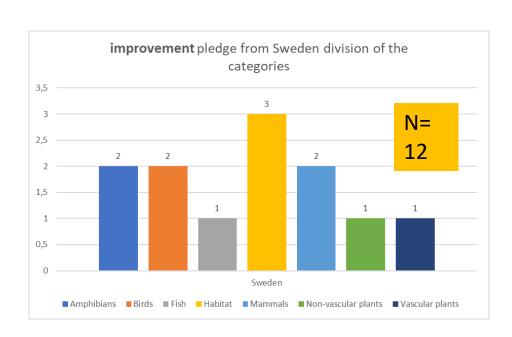








Pledged for improvement- Boreal region



- The pledge is equally distributed amongst the different species groups and habitats
- Habitat types pledged for improvement :
 - H-7120-Degraded raised bogs still capable of natural regeneration
 - H-9110-Luzulo-Fagetum beech forests
 - H-9130-Asperulo-Fagetum beech forests

















Some examples species



Agile frog (*Rana dalmatina*) © Saxifraga- Dirk Hilbers



Wolverine or glutton (*Gulo gulo*) © Saxifraga-Mark Zekhuis



Bullhead (*Cottus gobio*)
© Saxifraga- Eric **G**ibcus













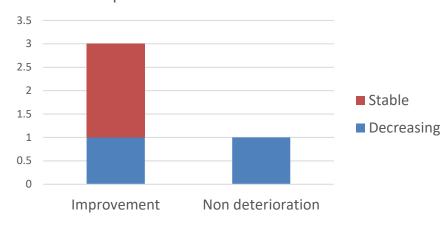




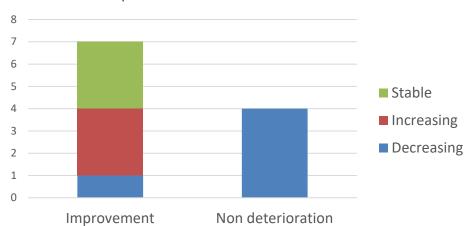
Current conservation status pledged species and habitats

Natura 2000 Biogeographical Process

Trend of habitats pledged by Sweden for improvement and non-deterioration



Trend of species in pledged by Sweden for improvement and non-deterioration



Source Conservation status: Art. 17 reporting (2012-2018) database



















Current conservation status pledged birds

Natura 2000 Biogeographical Process

EU trend : Decreasing



Montagu's Harrier (*Circus pygargus*) © Saxifraga- Mark Zekhuis

EU trend : Decreasing



Dunlin (*Calidris alpina schinzii*) © Saxifraga-Piet Munsterman

EU trend :Decreasing



Garganey (*Spatula querquedula*) © Saxifraga-Luuk Vermeer

















Measures taken for species and habitats

Natura 2000 Biogeographical Process

Not analysed due to limited data

Sufficiency of measures difficult to assess

For instance

- Improve condition of existing habitats (either Annex I or species habitats) through active area-based restoration measures
- Prevent, control, eradicate or mitigate negative impacts of Invasive alien (plant or animal) species

















Deterioration unavoidable – Swedish pledge

- 16 bird species
- 5 Habitat Directive species
- No habitat types

















Deterioration unavoidable-birds?



The spotted redshank (breeding)

Tringa erythropus

© Saxifraga – Rik Kruit



Long-eared owl (breeding)

Asio otus

Saxifraga- Mark Zekhuis



Redwing (breeding)

Turdus iliacus

© Saxifraga- Bart Vastenhouw

















Deterioration unavoidable- H-species?



Botrychium simplex (© Leena Eerelo)



European crayfish (Astacus astacasus) *Saxifraga-Rudmer Zwerver*



Mountain hare (Lepus timidus) Saxifraga-Janus Verkerk

















Overall conclusions for Boreal region

- Only one pledge submitted
- Overall sufficiency is relatively low
- Improvement pledges for species and habitats with decreasing trends
- Relatively high number of species and habitats for which deterioration cannot be halted















Issues for discussion

Natura 2000 Biogeographical Process

 What is the timeline for submission of the missing pledges?

 Does this analysis reflect the pledges not yet submitted of other Member States?













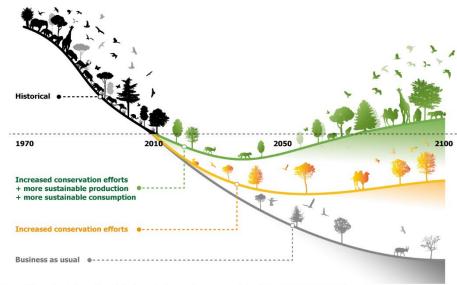




Issues for discussion

Natura 2000 Biogeographical Process

How feasible is it to reverse trend?



This artwork illustrates the main findings of the article, but does not intend to accurately represent its results (https://doi.org/10.1038/s41586-020-2705-y)















4th Natura 2000 Boreal Seminar Helsinki, Finland













