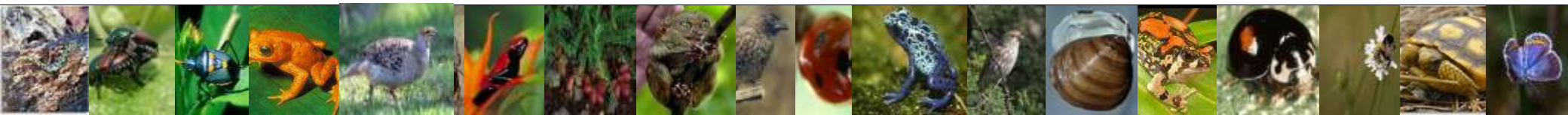
TESS 15 September 2009

Environmental information and public involvement

Prof. Jacqueline McGlade
Executive Director
European Environment Agency



Recent biodiversity developments

- Bonn post 2010 targets
- UNGA Assessment of assessments. Regular process for the marine environment
- Siracuse Charter G8 24th April
- Athens Message 27th April
- Arctic Council 29th April
- SEBI
- TEEB
- Common Fisheries Policy

G8 Carta di Siracusa on Biodiversity

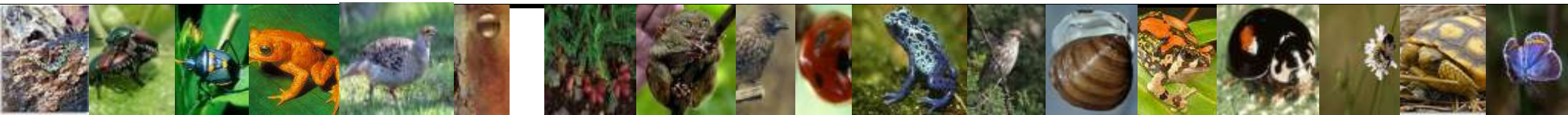
Summary

- The 25-point "Syracuse Charter" explicitly links safeguarding biodiversity to the fight against global warming, stating: "Biodiversity and ecosystem services are critical for regulating our climate".

- The charter also urges for raised awareness that "ecosystems provide a steady flow of goods and services" -- by providing clean drinking water, pollinating crops and decomposing waste, for example -- "and the costs of their loss".

Actions

- Biodiversity and Climate (7) Biodiversity, Economics and Business (9) Management of Biodiversity and Ecosystems Services (4) Science, Research and Policy (4) A common path toward the post-2010 framework on biodiversity (1)



SEBI 2010: 26 indicators within 16 EU Headlines

ECOSYSTEM INTEGRITY, GOODS AND SERVICES
- Marine trophic index
- Connectivity/fragmentation of ecosystems
- Water quality in aquatic ecosystems

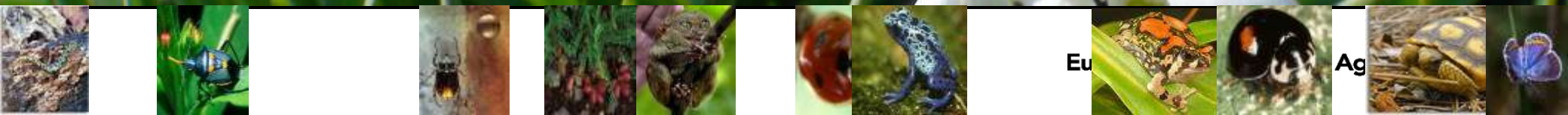
SUSTAINABLE USE
- Area of ecosystems under sustainable management
  - –Forest
  - –Agriculture
  - –Fishery
  - –Aquaculture
- Ecological footprint

+ Funding to biodiversity
+ Public awareness & participation
+ Patent applications

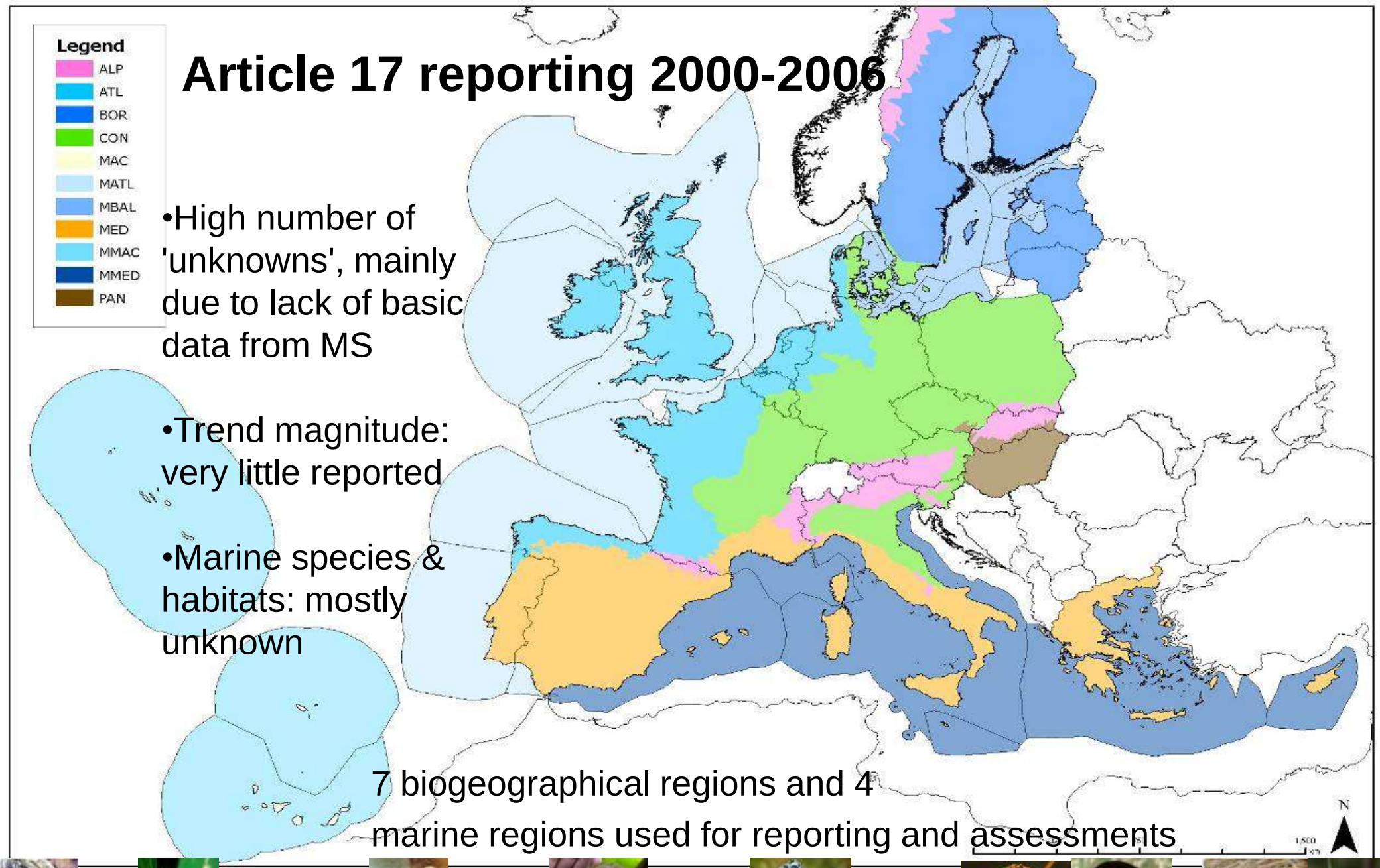
STATUS AND TRENDS OF COMPONENTS OF BIODIVERSITY
- Trends in extent of selected biomes, ecosystems, habitats
- Coverage of protected areas
- Trends in abundance and distribution of selected species
- Change in status of threatened and/or protected species
- Trends in genetic diversity of domesticated animals, cultivated plants, fish species of major socioeconomic importance

THREATS TO BIODIVERSITY
- Nitrogen deposition
- Numbers and costs of invasive alien species *(Trends in invasive alien species)*
- Impact of climate change

The SEBI assessment indicates that European biodiversity remains under serious pressure



Article 17 reporting 2000-2006

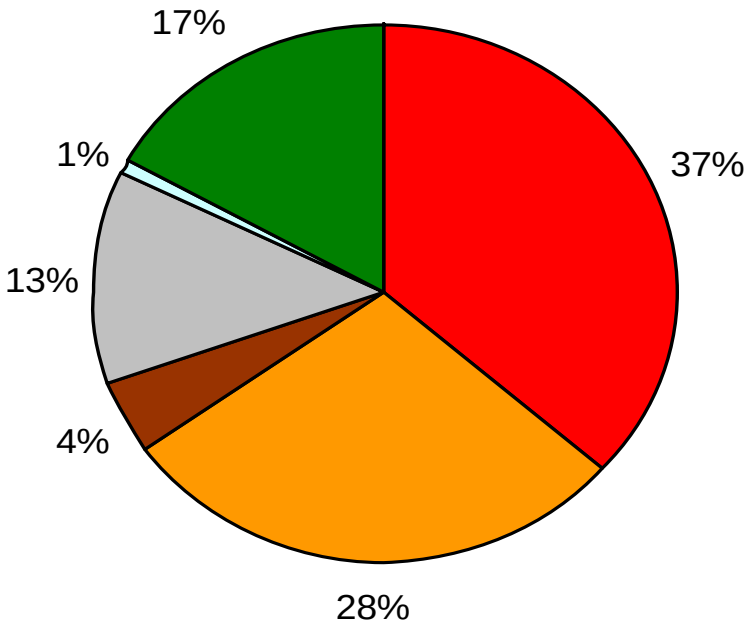


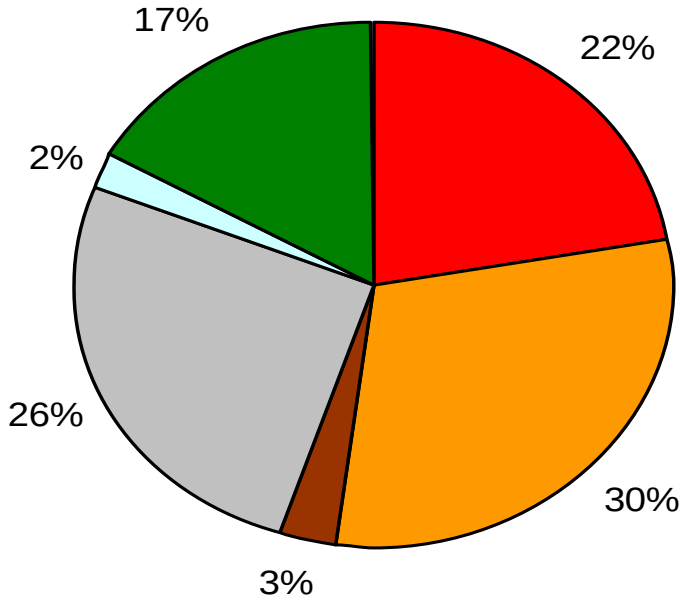
- High number of 'unknowns', mainly due to lack of basic data from MS
- Trend magnitude: very little reported
- Marine species & habitats: mostly unknown

7 biogeographical regions and 4 marine regions used for reporting and assessments

Article 17: Overall Conservation status of species & habitat types

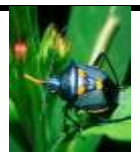
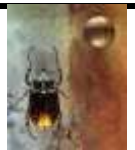
Habitats





Species

Favourable -	FV ('green')
Unfavourable – inadequate -	U1 ('amber')
Unfavourable – bad -	U2 ('red')
Unknown -	XX ('grey')

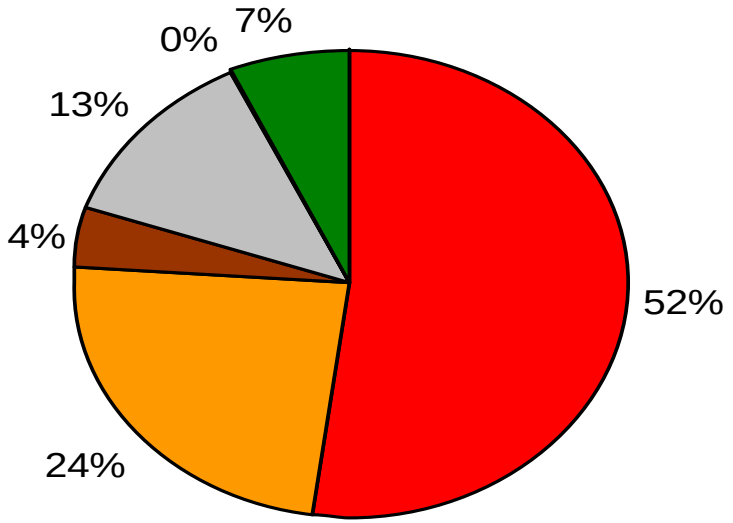




Eu

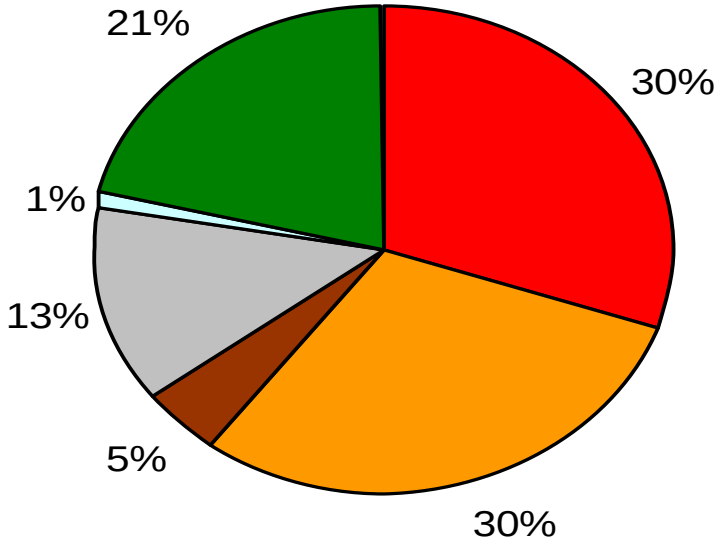

Ag

Article 17: Analysis of agricultural habitat types

Habitats dependant on agriculture (204 assessments)



Habitats not dependant on agriculture (497 assessments)



Favourable -	FV ('green')
Unfavourable – inadequate -	U1 ('amber')
Unfavourable – bad -	U2 ('red')
Unknown -	XX ('grey')







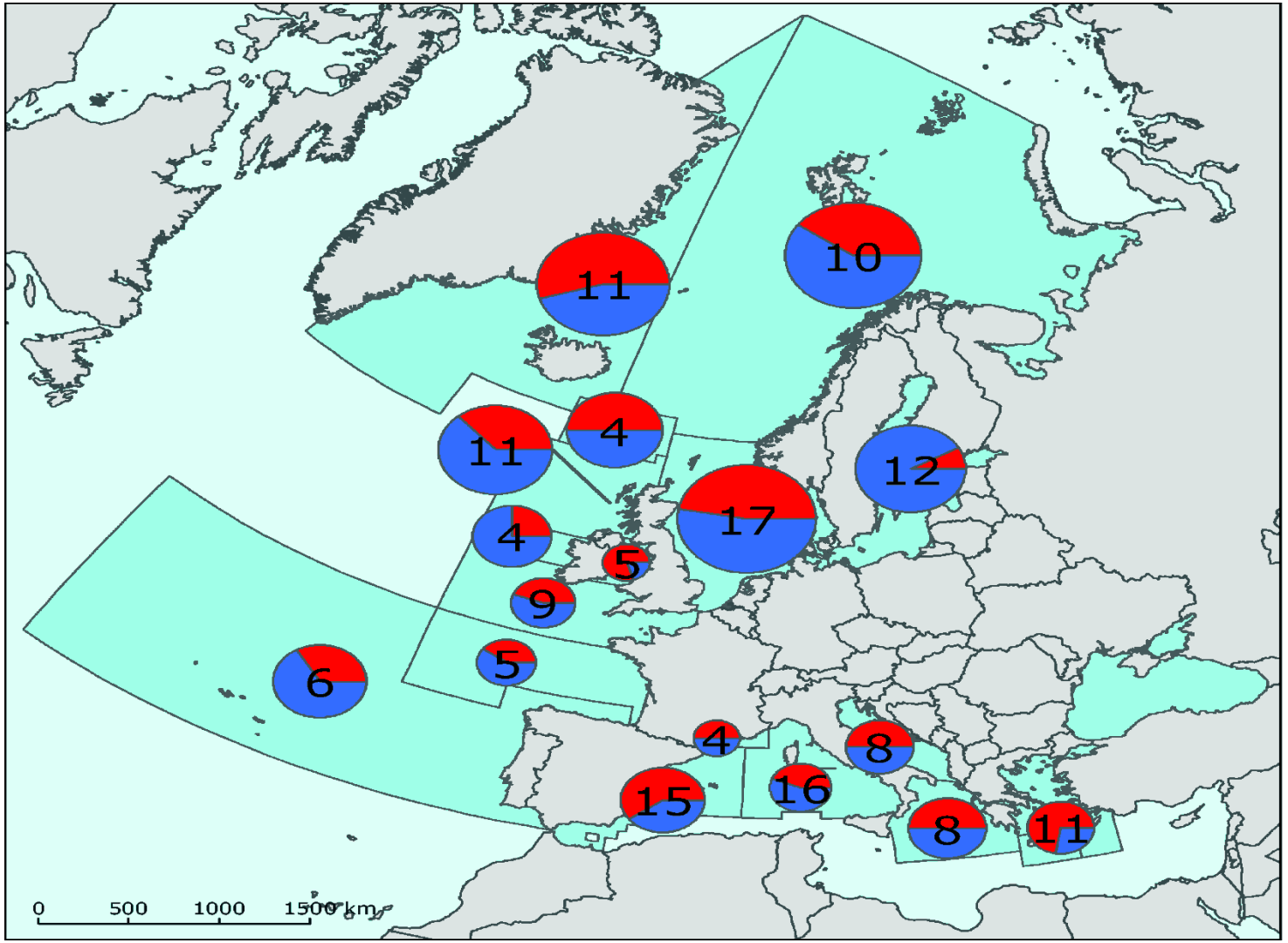
Article 17: Protected habitat types affected by climate change

Habitat group	N° affected by climate change	N° of habitats in group	% effected
Bogs, mires & fens	6	12	50
Dunes	6	21	29
Forests	16	72	22
Heaths	2	10	20
Sclerophyllous scrub	2	13	15
Coastal	4	28	14
Rocky habitats	2	14	14
Grasslands	3	29	10
Freshwater	1	19	5
All habitats	42	218	19





Status of the fish stocks in ICES (International Council for the Exploration of the Sea) and GFCM (General Fisheries Commission for the Mediterranean) fishing regions of Europe in 2006



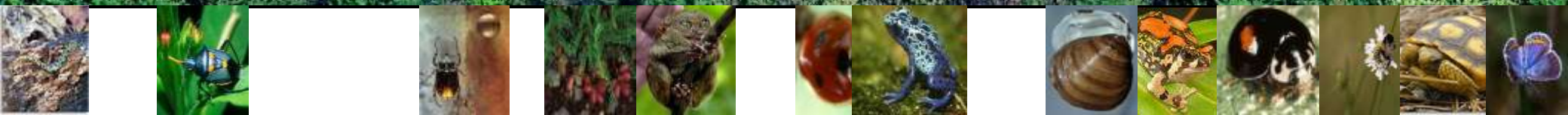
Proportion of stocks within and outside safe biological limits

- Outside
- Within
- ICES and GFCM fishing regions

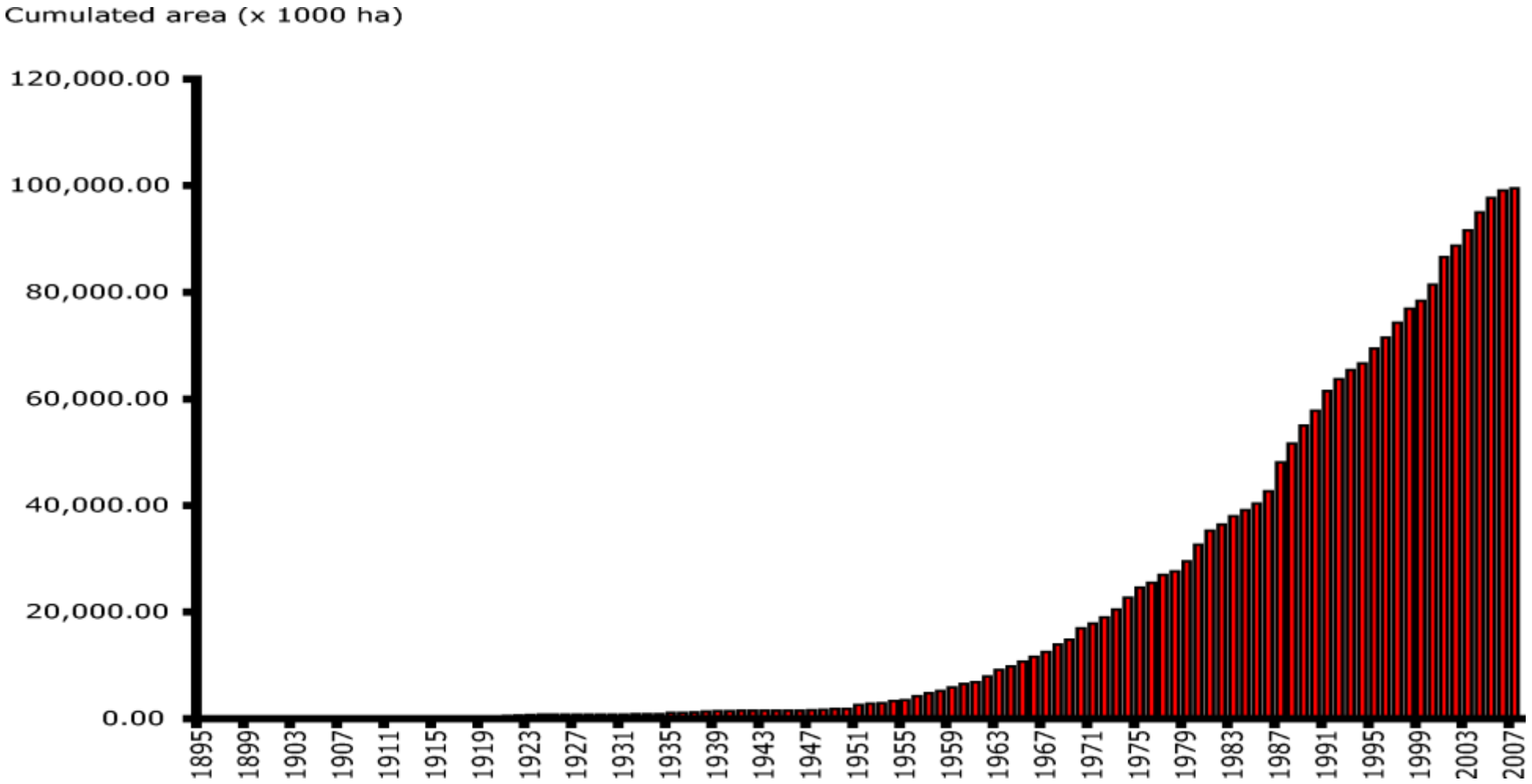
Wood harvest in European forests is relatively stable

Ratio of fellings to increment 60%

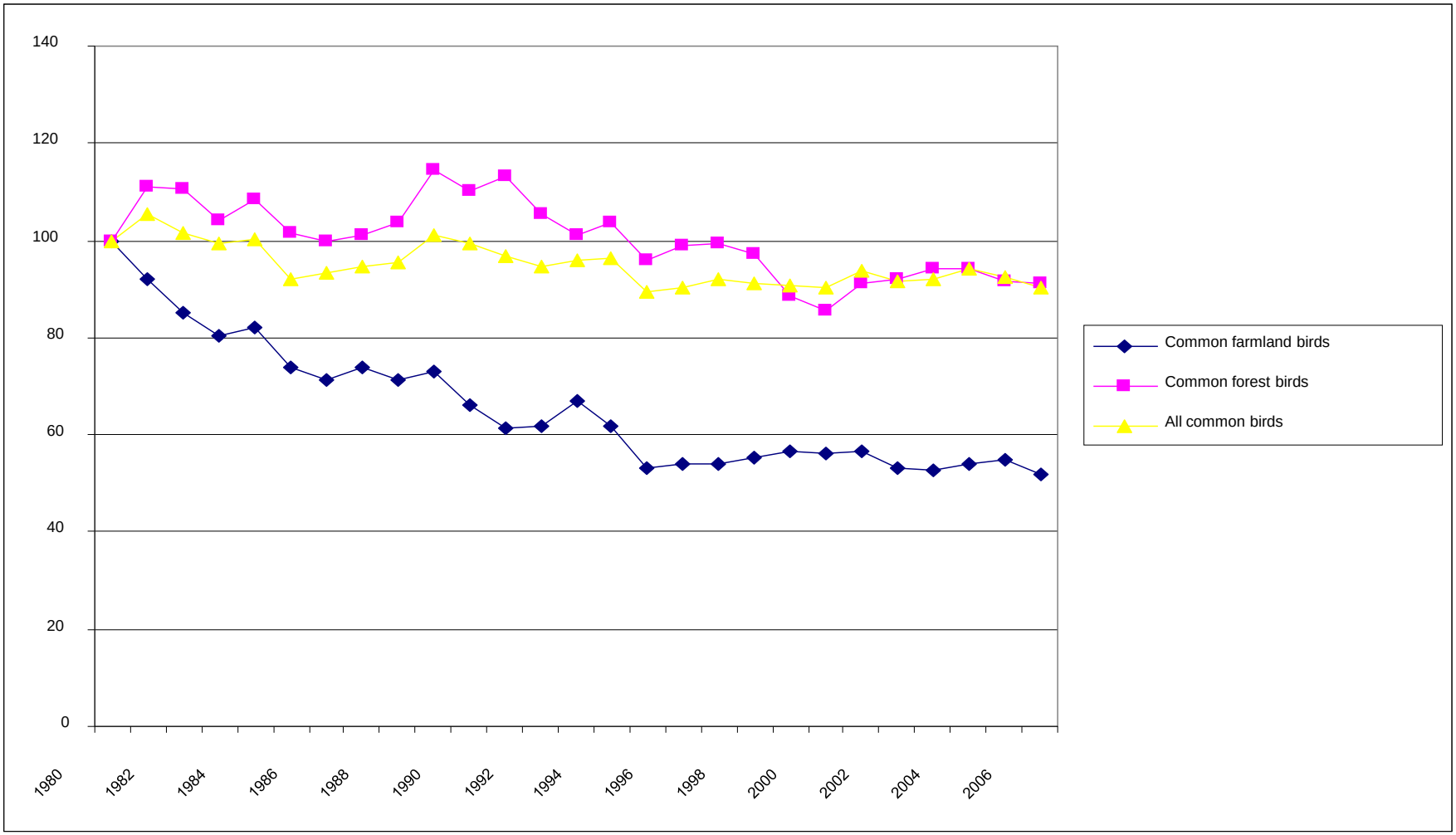
But forecast to rise to 70-80% by 2010



Growth of the nationally designated protected areas in 39 EEA countries



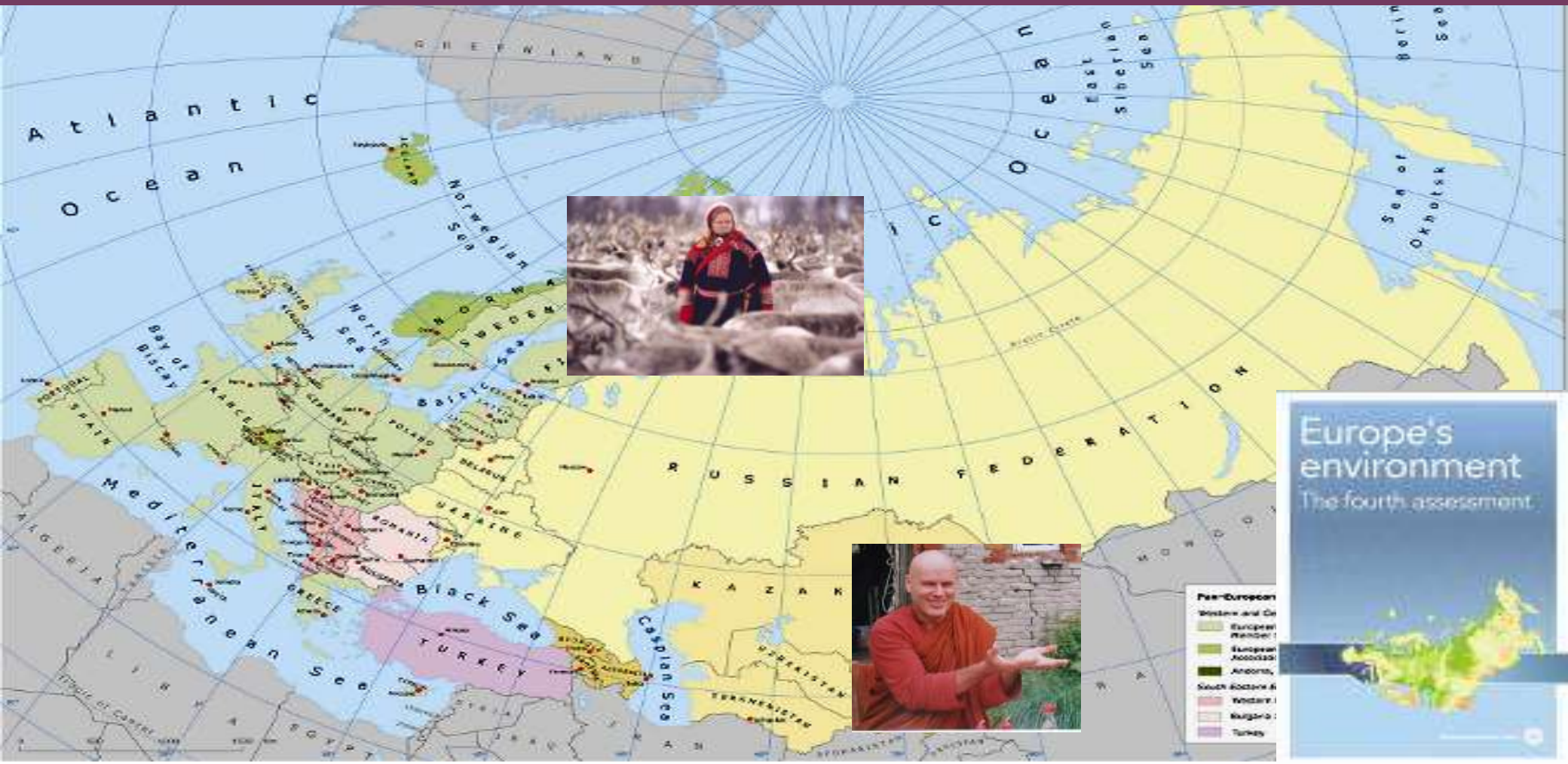
Common birds in Europe: Population Index (1980 = 100)



Source –
EEA 2009

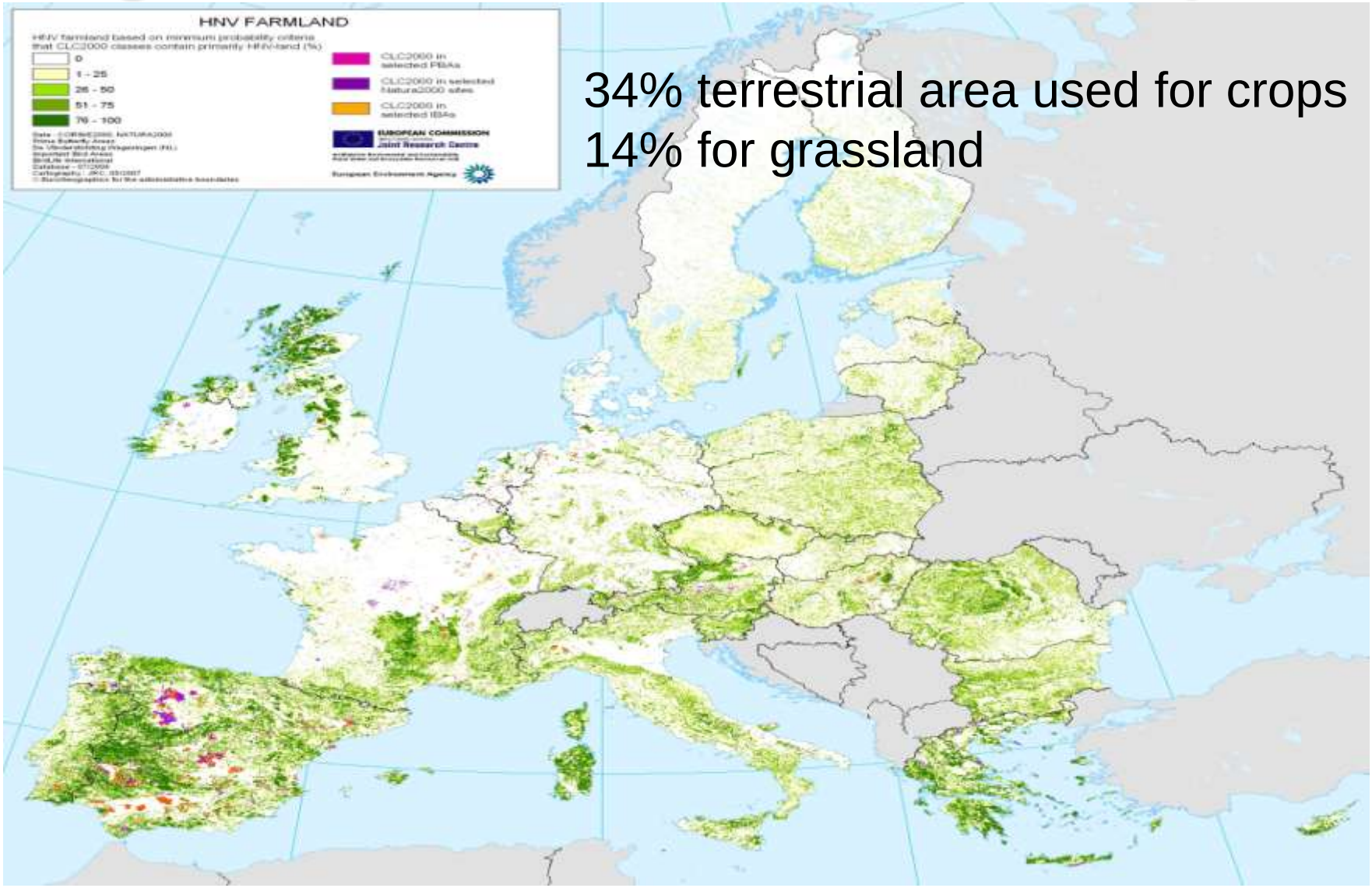
Article 17 report suggests better management of designated areas is needed - as well as better integration of biodiversity concerns into sectoral policies affecting the wider countryside coasts and seas at large.

Community leaders and indigenous peoples across 53 countries and over 870 million people



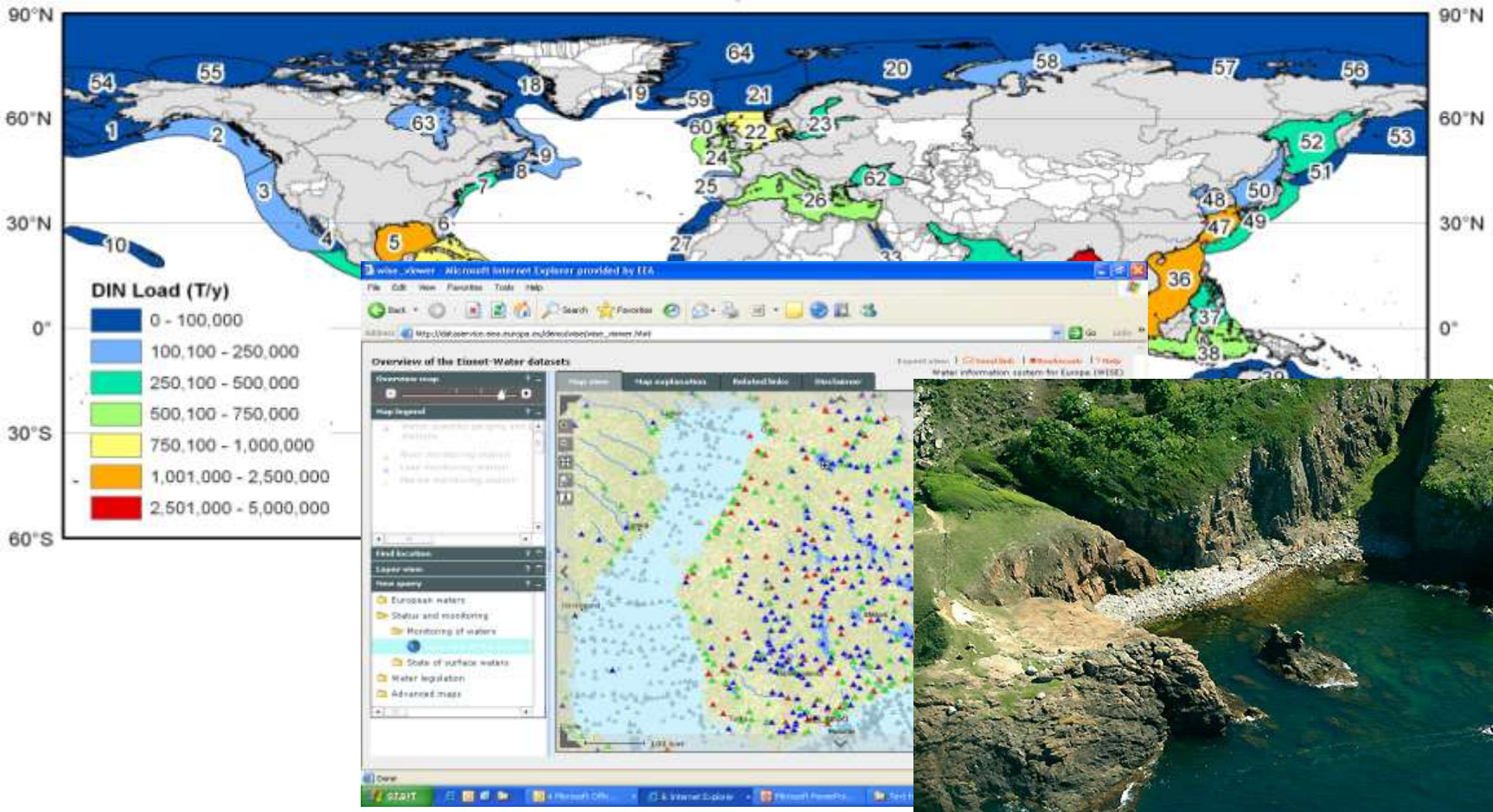
European Environment Agency

High Nature Value Farmland in Europe



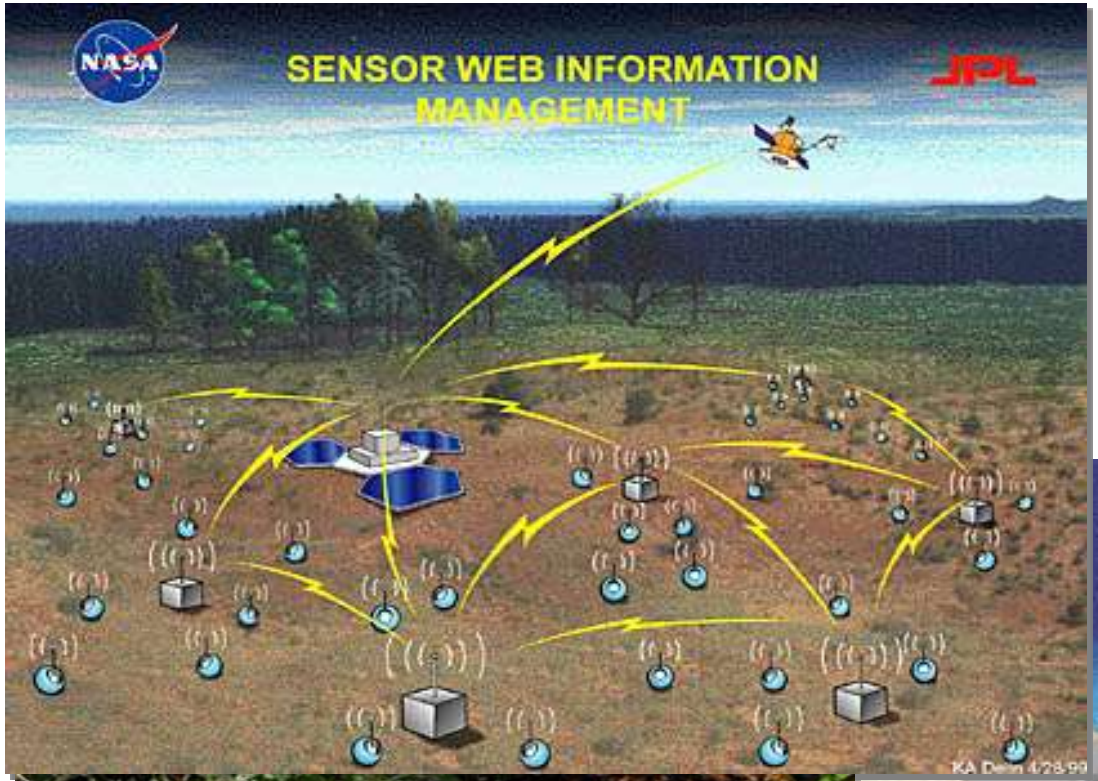
34% terrestrial area used for crops
14% for grassland

Bornholm


90°N
60°N
30°N
0°
30°S
60°S
DIN Load (T/y)
0 - 100,000
100,100 - 250,000
250,100 - 500,000
500,100 - 750,000
750,100 - 1,000,000
1,001,000 - 2,500,000
2,501,000 - 5,000,000
Overview of the Eionet-Water datasets

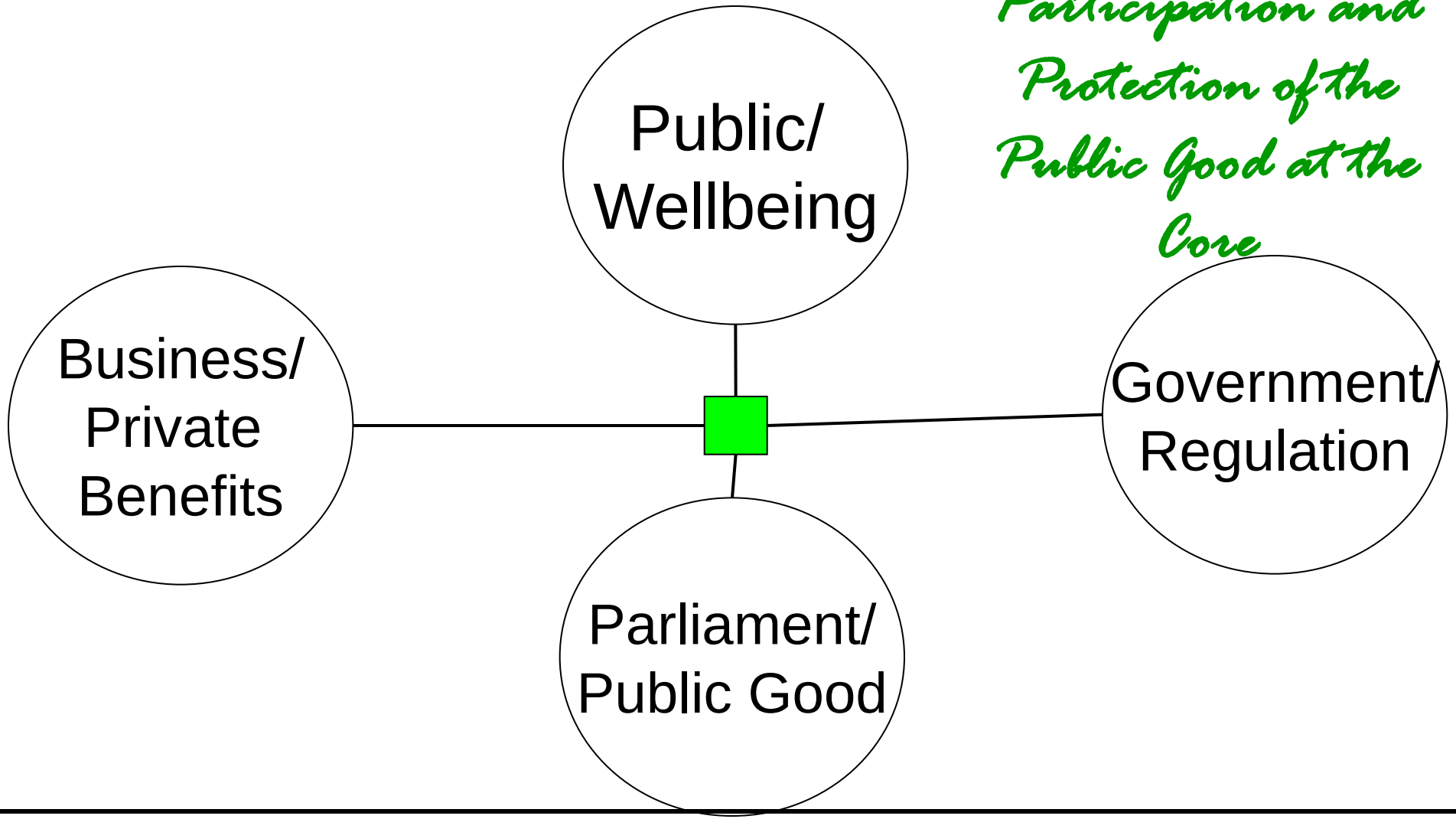
H.C. Steensen, Skypix.dk

New technologies in *in situ* and space Data tagging Sensor Webs



Public dialogue

Public Participation and Protection of the Public Good at the Core



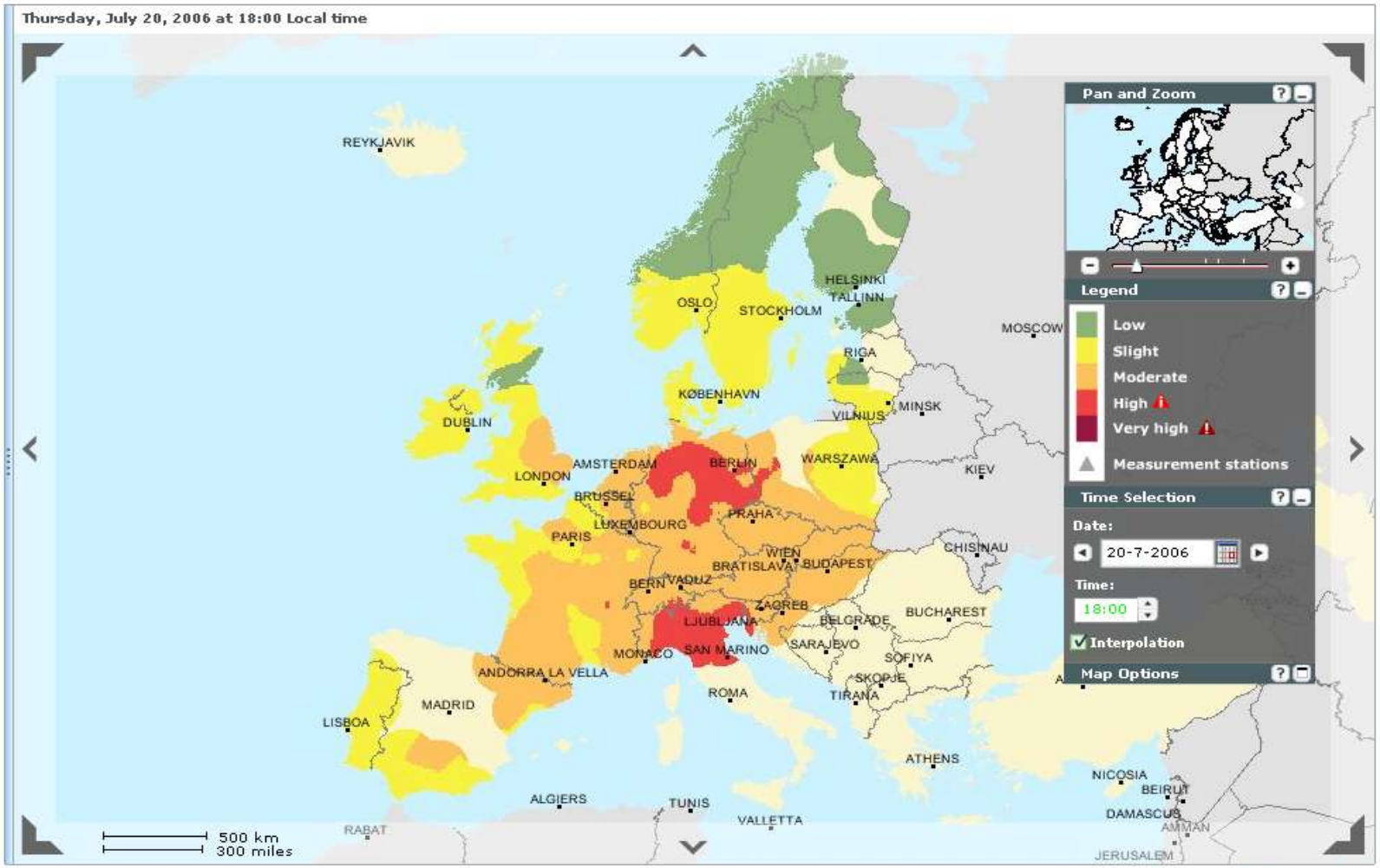
Global Citizen Environment Observatory

Satellites cannot discover the souls
and languages and legends of a culture.
We still need more detail in almost
every place.

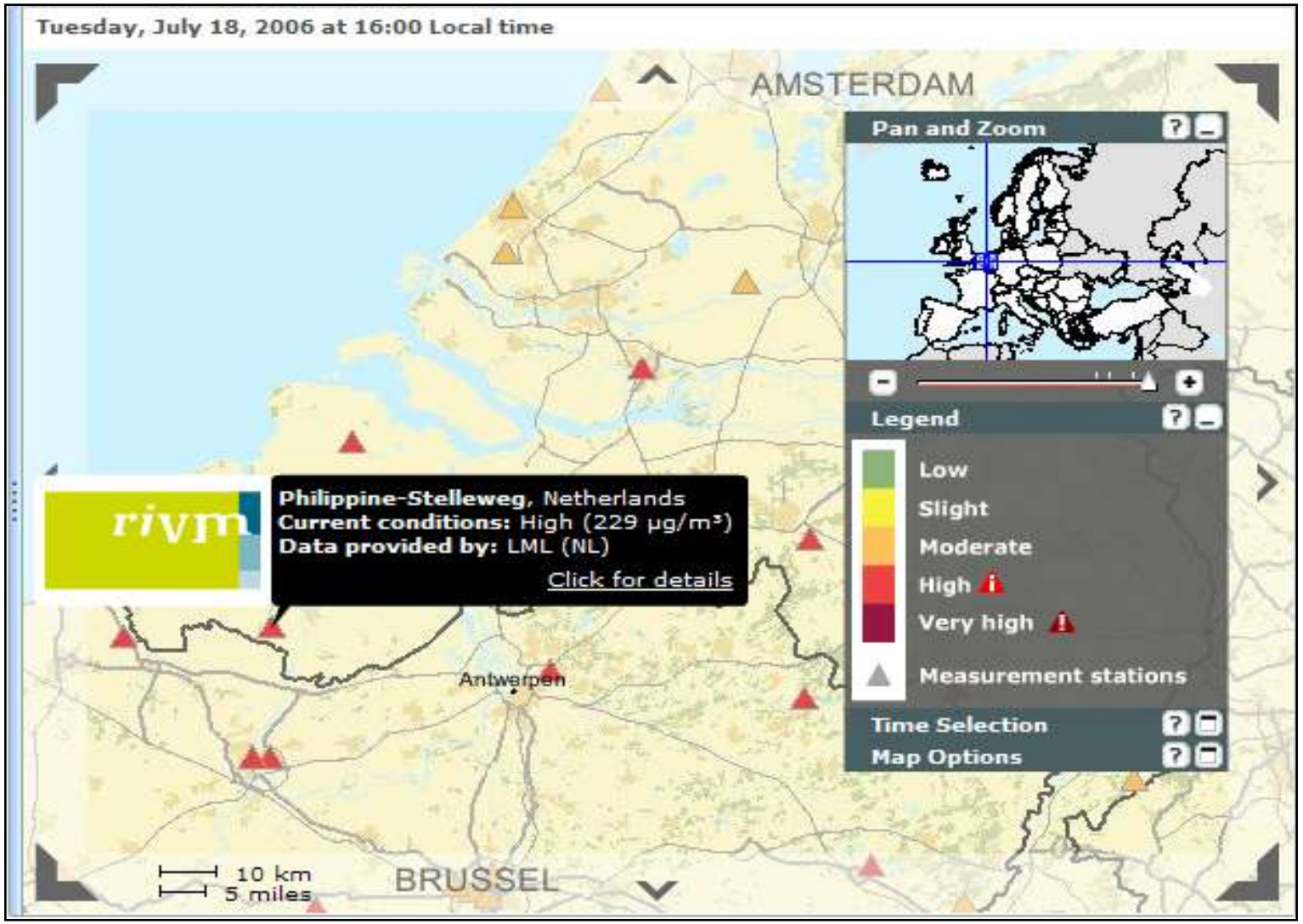
Heinrich Harrer

Near Real Time Ozone Monitoring

Place name/Post code:
Enter Place name/Post code
Country:
Enter Country
Find



http://www.eea.europa.eu./maps/ozone


Tuesday, July 18, 2006 at 16:00 Local time
AMSTERDAM
Pan and Zoom
Legend
Low
Slight
Moderate
High
Very high
Measurement stations
Time Selection
Map Options
rivm
Philippine-Stelleweg, Netherlands
Current conditions: High (229 µg/m³)
Data provided by: LML (NL)
Click for details
Antwerpen
BRUSSEL
10 km
5 miles

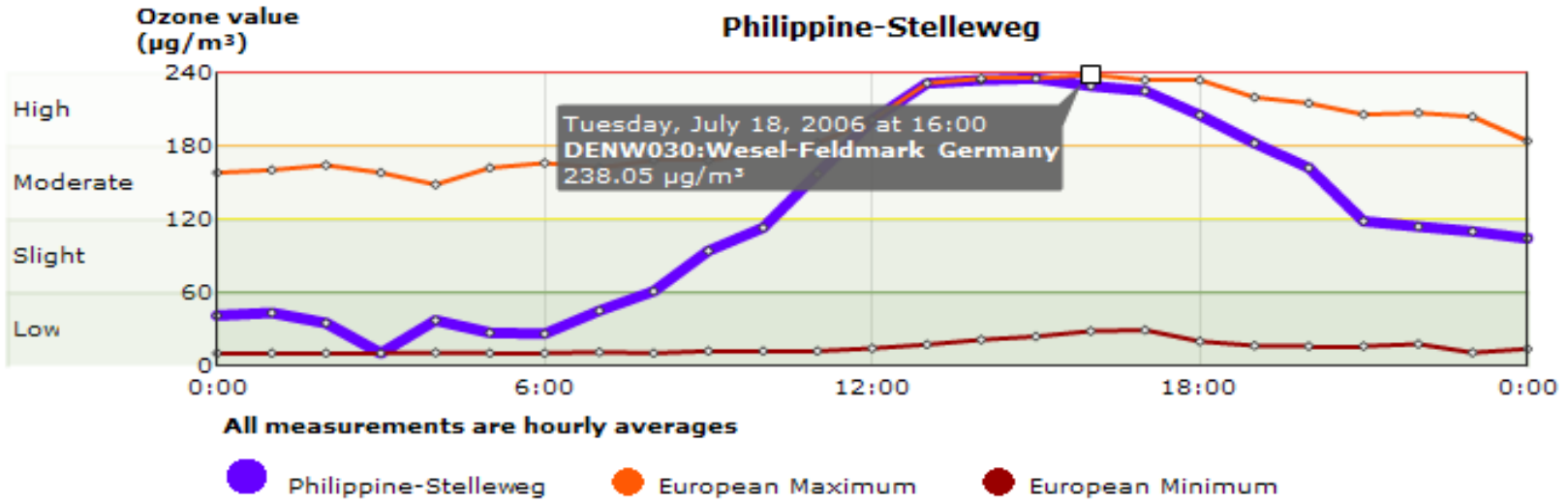
Ozone Statistics

Print

Maximum daily ozone values at monitoring stations across Europe

18-7-2006 Time range: 1 day 1 week 1 month

Station name	Country	Date and Time	Value in µg/m³
1. DENW030:Wesel-Feldmark	Germany	18-7 16:00	238.05
2. MOERKERKE 44N012 - MOERKERKE	Belgium	18-7 14:00	235.00
3. Philippine-Stelleweg	Netherlands	18-7 15:00	235.00
4. Philippine-Stelleweg	Netherlands	18-7 14:00	234.00
5. YARNER WOOD	United Kingdom	18-7 17:00	234.00
6. YARNER WOOD	United Kingdom	18-7 18:00	234.00
7. Philippine-Stelleweg	Netherlands	18-7 13:00	231.00
8. YARNER WOOD	United Kingdom	18-7 16:00	230.00



EEA water watch

In the negotiations for a post-2012 agreement on climate change we must try to include the real value of biodiversity and the effects of using our natural capital on ecosystems and their resilience

Thank you

Prof. Jacqueline McGlade
Executive Director
European Environment Agency