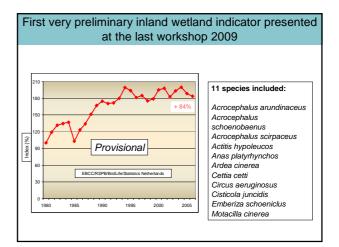
Pilot indicator of inland wetlands

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Updated version of Inland Wetland Indicator (IWI)

What we consider as inland wetland species?

- definition from Tucker & Evans (1997) used
- · northern mires and similar habitats not included
- distinction between rivers, lakes and marshes → 3 main sub-types of inland wetland habitat

Potential weaknesses to be discussed and resolved

Classification of some habitat types connected with rivers and lakes - e.g. littoral habitats or reedbeds

Additional sources to be used for classification - Birds of the Western Palaearctic

Sub-types of inland wetland species

Overall category

Inland wetlands

All species classified as characteristic for inland wetlands in Tucker and Evans (1997) but each species is checked and could be excluded in case of serious doubts

3 sub-types

Waterways
Species classified as characteristic for river habitats in Tucker and Evans (1997), but marshland like species are not included in this category.

Open waters
Species classified as characteristic for lakes in Tucker and Evans (1997), but marshland like species are not included.

Species classified as characteristic for marshes in Tucker and Evans (1997), but can also include species which are classified as characteristic for lakes or rivers but depend on marshland like vegetation

Purpose of inland wetlands indicators

Preliminary types of indicators suggested for discussion (not ultimate list)

Overall indicator of state of bird communities characteristic for inland wetlands

Indicators of state of bird communities characteristic for three main sub-types of inland wetland habitats

Indicator of threats/responses

Policy driven indicators

Source data and method

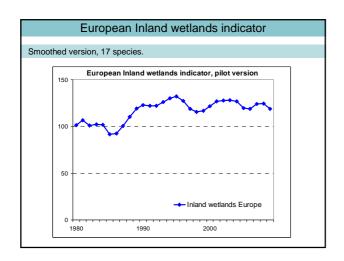
Species classification by Tucker and Evans (1997)

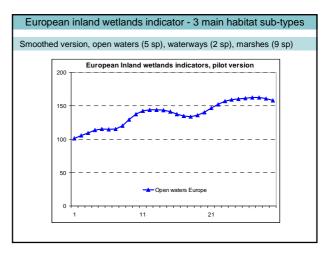
Species indices currently available in the PECBMS data set (published species only)

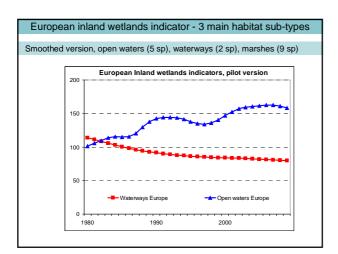
Indicator has been calculated using geometric mean of indices

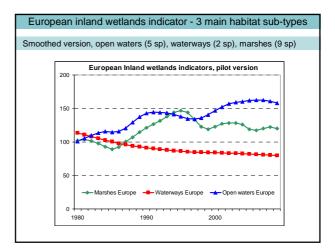
No weighting used

TrendSpotter used to compute smoothed version of the indicator and to test a difference of the indicator value in comparison with the last year of time series









17 species included in the first inland wetland indicator			
	Species scientific name	Inland wetlands habitat sub-type	
	Ardea cinerea	Open waters	
	Cygnus olor	Open waters	
	Anas platyrhynchos	Open waters	
	Gallinula chloropus	Open waters	
	Fulica atra	Open waters	
	Actitis hypoleucos	Waterways	
	Motacilla cinerea	Waterways	
	Circus aeruginosus	Marshes	
	Gallinago gallinago	Marshes	
	Tringa totanus	Marshes	
	Cettia cetti	Marshes	
	Cisticola juncidis	Marshes	
	Acrocephalus schoenobaenus	Marshes	
	Acrocephalus scirpaceus	Marshes	
	Acrocephalus arundinaceus	Marshes	
	Emberiza schoeniclus	Marshes	
	Tringa ochropus	Not classified	

Questions to be discussed at the workshop

What kind of inland wetland bird indicator we need to develop further, for which policy purpose?

Which approaches need to be explored further?

Potential problems in acquiring good data for IWI?

Should we focus on developing Indicator of threats/responses and/on Policy driven indicators as well?