

## Reporting under the EU nature Directives in practice: reporting tool, reference portal, range tool, use of Reportnet

Birds in Europe 3 kick-off meeting  
08-10/02/2012 Mikulov

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EEA – European Topic Centre on Biological Diversity (ETC/BD)

European Topic Centre on Biological Diversity

<http://biodiversity.eionet.europa.eu>



## Who we are?

### EUROPEAN TOPIC CENTRE ON BIOLOGICAL DIVERSITY

We are an international consortium of 9 organisations across Europe, coordinated by the French **National Museum of Natural History** (MNHN).

Topic centre of the **European Environment Agency (EEA)** working in the field of biodiversity in close collaboration with **DG Environment**.

**European Environment Agency EEA** – European organisation which mission is to provide to date and reliable information about environment to inform environmental policies

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## Why are we involved?

### Habitats Directive (HD) Article 17 reporting experience

⇒ Habitats Directive – the EU contribution to the Bern convention

- Collating the EU level dataset on status and trends of the habitats and species protected under the Habitats Directive in the EU Member States & the quality assurance
- Evaluating the EU level status and trends of the habitats and species listed in the Directive
- Based on the results of the Article 17 reporting we prepared synthetic technical report summarising main outcomes regarding the status, trends and pressures of these habitats and species

<http://bd.eionet.europa.eu/article17>

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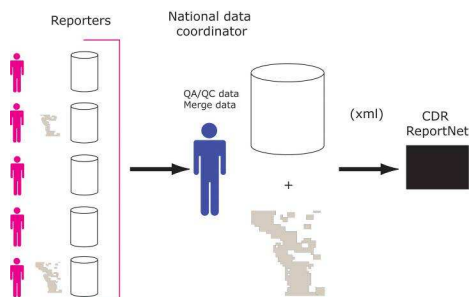
## Reporting Tool

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## Dataflow – national level



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## Reporting Tool

### The tool is based on the 'Article 12 Reporting format'

The reporting tool is...

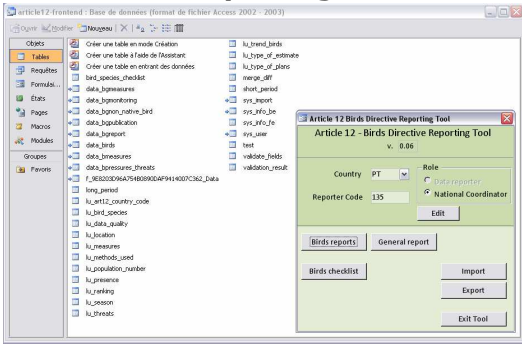
- A desktop application based on **MS Access** versions 2003, 2007 & 2010
- Supports two level, **reporter & coordinator**, organisation of reporting
- Has a 'mask' for **entering** the data
- Through set of rules applied in the 'editing masks' and final validation assures **data quality**
- Exports all tabular data in the **requested format** (link to CDR)

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# Reporting Tool



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# Reporting Tool

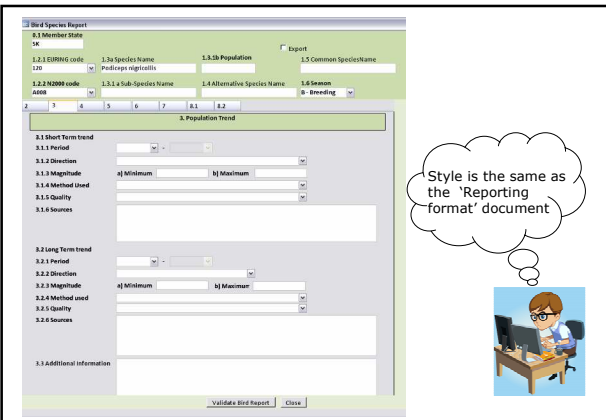
List of Bird reports

Show Duplicates  Show only chosen for export

Country	EUBIRD code	N2000 code	Season	Last modified	Actor	Creator	Export			
SK	38	A012			135	135	Yes	✖	✖	✖
SK	79	A004			135	135	Yes	✖	✖	✖
SK	1571	A039-a	R	14/12/2011 16:04:24	135	135	No	✖	✖	✖
SK	1571	A039-a	R	14/12/2011 16:42:24	120	120	Yes	✖	✖	✖
SK	1571	A039-a	W	14/12/2011 11:26:49	120	120	Yes	✖	✖	✖
SK	1571	A039-a	W	14/12/2011 11:26:49	135	135	Yes	✖	✖	✖
SK	2380	A073	F	14/12/2011 11:18:03	120	120	Yes	✖	✖	✖
SK	2380	A073	F	14/12/2011 11:18:03	135	135	Yes	✖	✖	✖
SK	2380	A073	W	14/12/2011 10:48:14	120	120	Yes	✖	✖	✖
SK	2380	A073	W	14/12/2011 10:48:14	135	135	Yes	✖	✖	✖
SK	4560	A132	B	14/12/2011 13:59:57	120	120	Yes	✖	✖	✖
SK	4560	A132	B	14/12/2011 13:59:57	135	135	Yes	✖	✖	✖
SK	3558	A411			135	135	Yes	✖	✖	✖
SK	3558	A411			135	135	Yes	✖	✖	✖

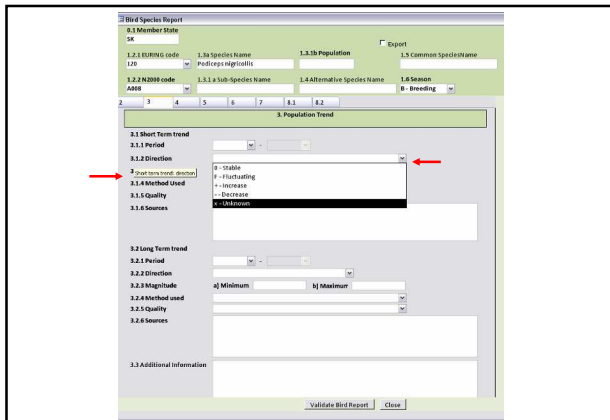
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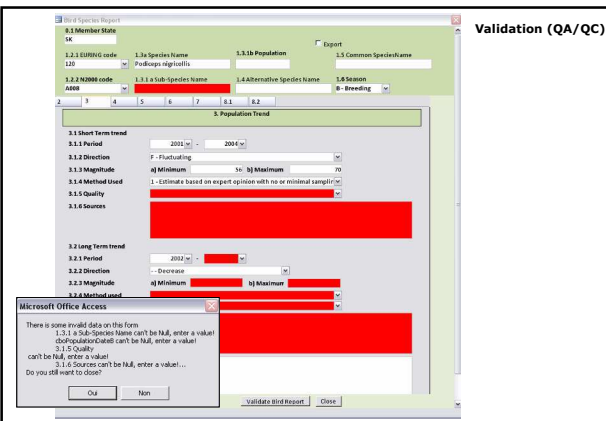
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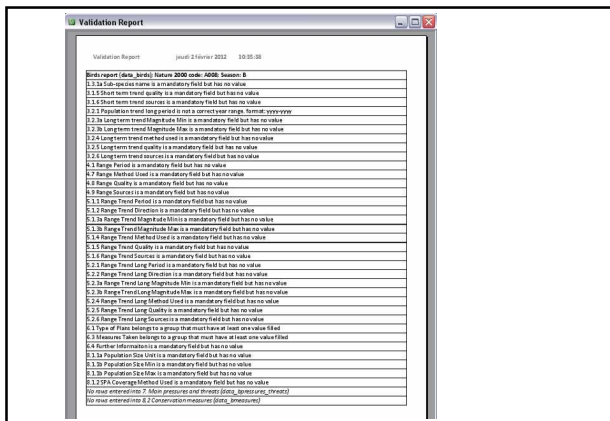
<http://biodiversity.eionet.europa.eu>



### Validation (QA/QC)

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## Reporting Tool

XML

Article 12 Birds Directive Reporting Tool v. 0.06

Country: SK Role: National Coordinator

Reporter Code: 171

Buttons: Import, Export, Exit Tool

## Reporting Tool

List of Bird reports

Table with columns: Country, EURING code, N2000 code, Season, Last modified, Actor, Creator, Export, and action buttons (Edit, Delete, Diff).

## Reporting Tool

Table comparing bird species lists for 1974 and 2010, showing species names and their corresponding codes.

## Reporting Tool – to be done

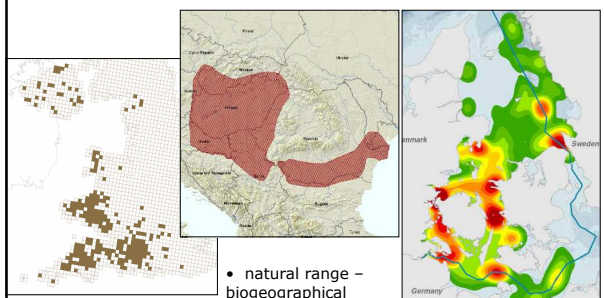
We have already close to final version of the tool, the final version for Article 12 should be ready first week of march.

Adaptation of the tool to needs of Red list project – in state of negotiation with the EEA

- Adapting to new spatial coverage of BiE3 & RL (including species which don't occur in the EU, adding non-EU countries)
- Additional information on conservation actions and threats using IUCN classification

## Range

## Range - concept



- range mapped as an occurrence in a grid
- natural range – biogeographical elements
- modeled statistical probabilities of occurrence

## Range in the Article 17 reporting

- The concept was defined originally for the **Article 17 reporting** taking into account experience from the previous round reporting (the need of comparable and standardised approach)
- **The principal aim is to evaluate** status of habitats and species (calculate **trends** of an overall distribution and based on agreed thresholds draw a conclusion)
- A **single approach** for wide variety of species plus habitat types, for variety of situation (e.g. expert judgment)

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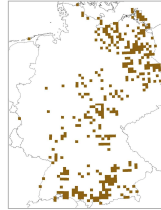
<http://biodiversity.eionet.europa.eu>



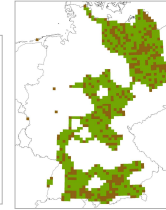
## Range calculation – range tool

**DISTRIBUTION**  
presence/absence  
in a grid  
(10x10km)

**RANGE** - an  
envelope around the  
distribution (IUCN  
Red List concept)



- MS and EU scale (relatively tight envelope)
- range can contain discontinuities
- standard, repeatable procedure



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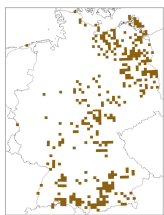


## Range calculation – range tool

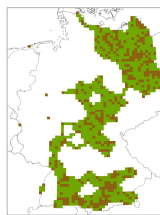
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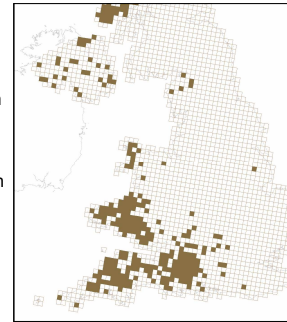
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## Range calculation – range tool

- range is calculated based on a **distribution data** (breeding distribution)
  - distribution is mapped as a **presence in a grid** (10x10km)
  - ETRS LAEA 5210 projection
- Art 12 guidelines: *EBCC Atlas categories – only grids with confirmed and probable breeding should be included; possible breeding should be excluded*



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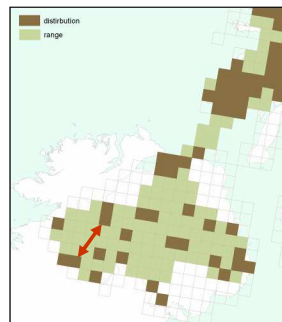


## Range calculation – range tool

- calculation of range = filling in the gaps in the distribution to create range envelope(s)

### gap distance

- a distance between two distribution points which are connected to create a polygon
- determines resulting range
- Art 12 guidelines: 50km

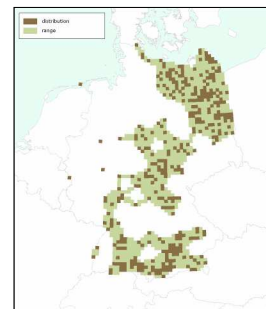
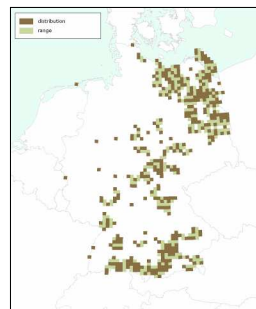


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## Gap distance



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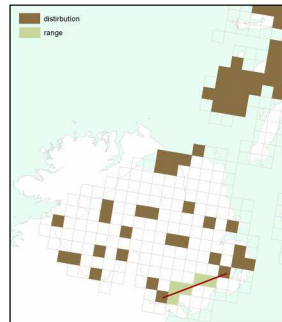


## Range calculation – range tool

### STEPS:

1) filling in the gaps in the distribution to create range envelope(s)

→ lines between 2 grid cells if distance between their centroids is equal or lower to defined value



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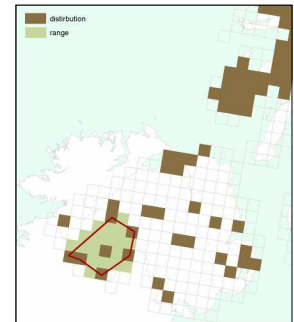
## Range calculation – range tool

### STEPS:

1) filling in the gaps in the distribution to create range polygon(s)

→ analyses where set of lines form a polygon

→ includes grid cells from the reference grid file, which are intersected by created lines and polygons into a range



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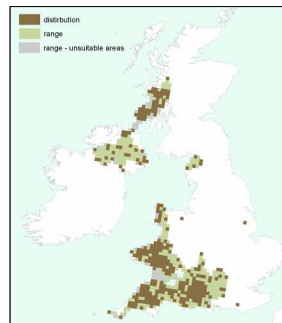


## Range calculation – range tool

### STEPS:

1) filling in the gaps in the distribution to create range polygon(s)

2) fitting to the environmental variables – excluding inappropriate areas from range polygons



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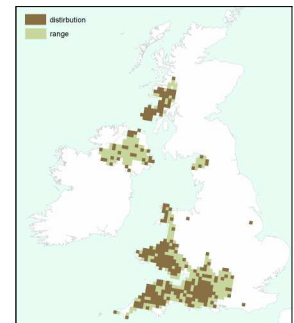


## Range calculation – range tool

### STEPS:

1) filling in the gaps in the distribution to create range polygon(s)

2) fitting to the environmental variables – excluding inappropriate areas from range polygons

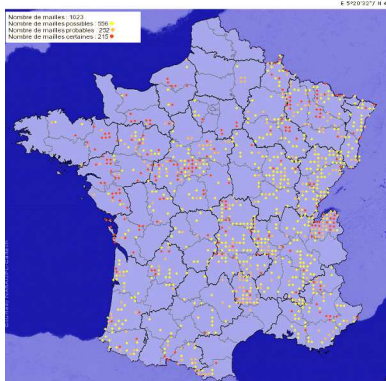


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Repartition géographique (coordonnées géographiques)  
Cliquez sur une maille avec des données



### Data issue

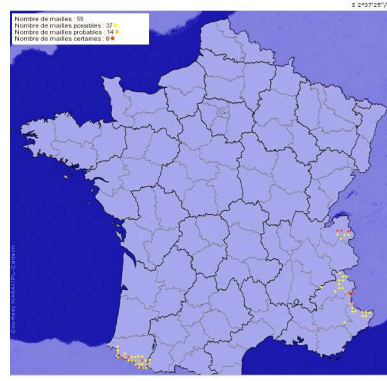
Poorly known regions/species - only information classified as possible breeding exists

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Cliquez sur une maille avec des données



### Species ecology

10 km grid does not represent well species ecology

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## The range tool

### The range tool

- runs under **ArcGIS 9.3** - a web based tool may not be as efficient (huge files) + difficulty in a helpdesk

### What does it do?

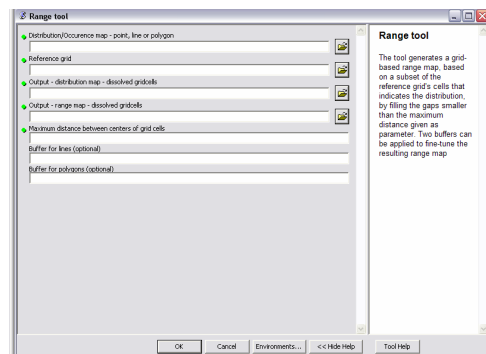
- fills in the gaps between distribution points to create a range envelop

### What does not it do?

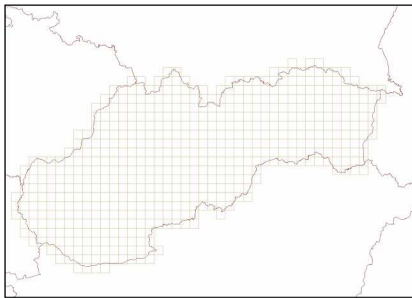
- does not fit calculated envelopes to environmental variables
- does not provide interface for modification/correction of calculated ranges in case of data issues



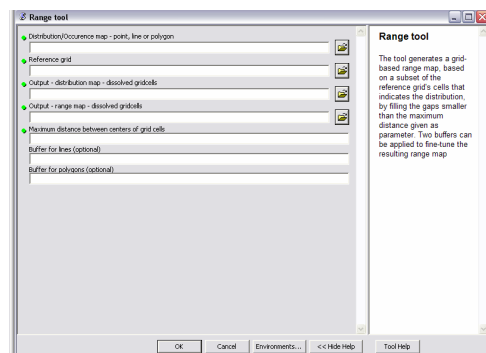
## Range tool – user interface



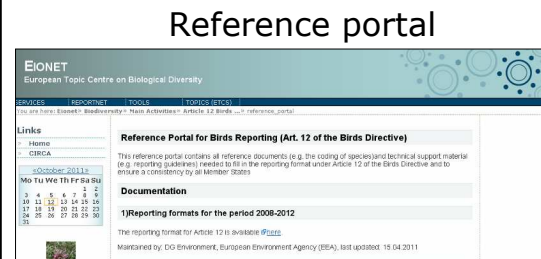
## Reference grid



## Range tool – user interface



## Reference portal



- contains all reference documents and technical support materials needed to fill in the reporting format

[http://bd.eionet.europa.eu/activities/Article\\_12\\_Birds\\_Directive/reference\\_portal](http://bd.eionet.europa.eu/activities/Article_12_Birds_Directive/reference_portal)





## Reference portal for Article 12 reporting

► Contains information relevant for the EU Article 12 reporting:

- Reporting formats & Explanatory Notes and Guidelines - describing **content of the dataset**
- Guidelines for submitting Article 12 data, database template, xml schema & IT application (in preparation) - describing **the format of data**
- **Code lists** for filling in Art12 Reporting format: country-codes Checklist of birds, list of threats and pressures, list of conservation measures
- European grids - to map a species distribution and other guidelines related to the **spatial information**

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## Reportnet of the EEA

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## CDR ReportNet

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## Delivering data on CDR

Datasets are delivered via an envelope on CDR – all requested files are uploaded to the envelope

There will be a dedicated envelope for the delivery of NGO's Red list & BIE3 data not depend on any country official delivery or validation

### Data format

- tabular data in xml format
- spatial data as an ArcGIS shape-file with ETRS LAEA 5210 projection???

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## CDR ReportNet

### Accessibility issues

- Only a person designated by the NGO will access envelope, upload data and at the end release envelope
- Data is not visible until the envelope is 'released'
- Normally once the envelope is 'released' the data is public (but there is a possibility to delay publishing the data)

IMPORTANT: The date of 'Releasing' the envelope is treated as the 'delivery' date, if you don't release the data is not deemed to be delivered.

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