Project CB005.1.12.135 :
Preparation and promotion of the process of development of European ecological network NATURA2000 in Istranca Mountain

Activity3: On-site training for joint data collection at NATURA 2000 sites in Istranca.

Collection of data for the Natura 2000 target species and expert assessment of their status (definition of favorable conservation status).

Presented by Simeon Marin – expert on birds, habitats, zoology in general and Natura 2000 expert.

09 – 11 March 2018, Bulgaria

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Inventories, mapping, assessments of Natura 2000 reference habitats and species in terms to establish Natura 2000 in the state

Natura 2000 EU Reference list:

195 bird species of Annex I of Bird Directive + migrating birds species

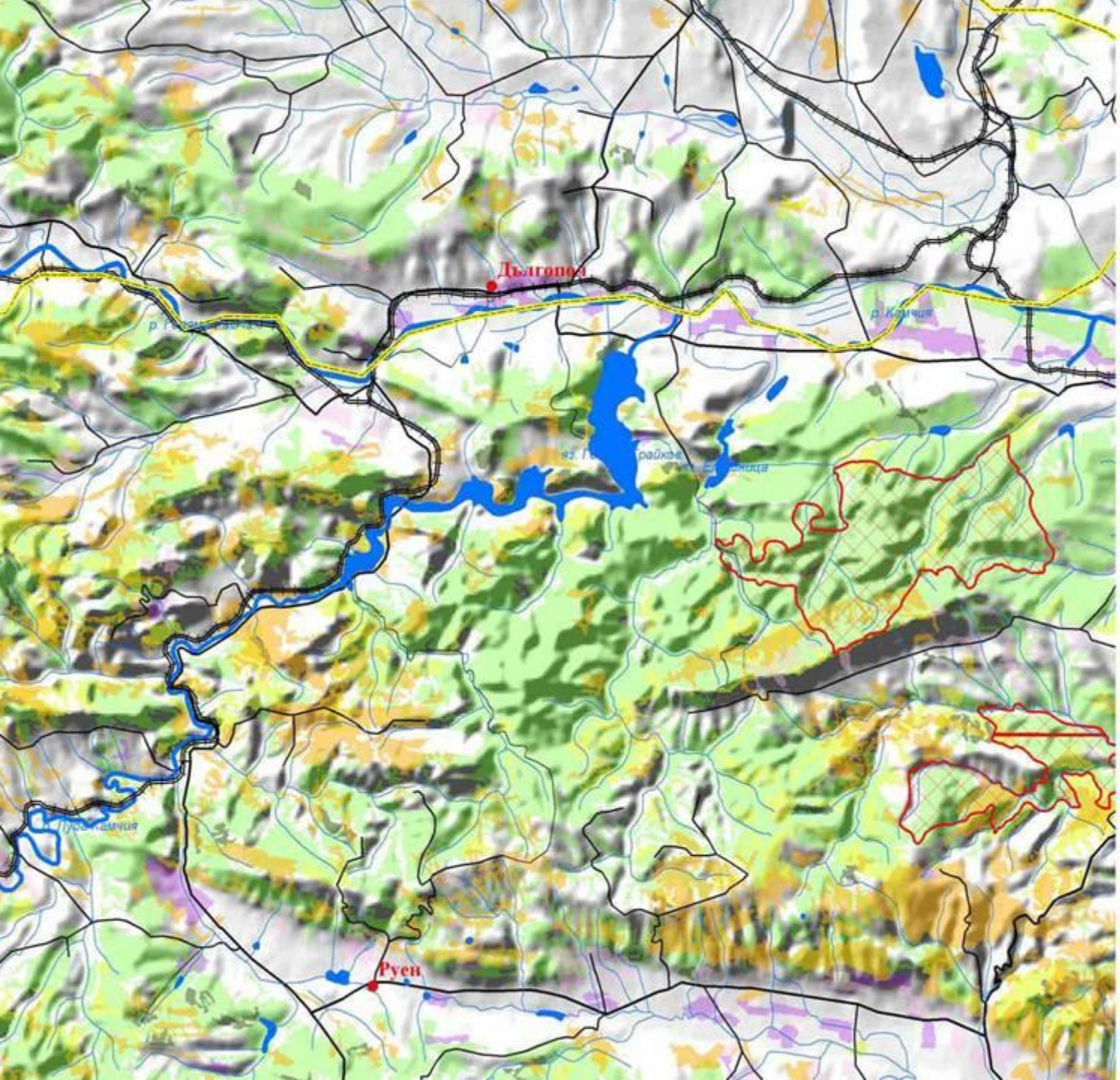
231 habitats of Habitat Directive

911 species /324 animal and 587 plant species/, of Annex II of Habitat Directive:

- **54 mammals**
- **24 reptiles**
- **25 amphibians**
- **85 fish**
- **136 invertebrates**
- **587 plans**

Actual data January 2007

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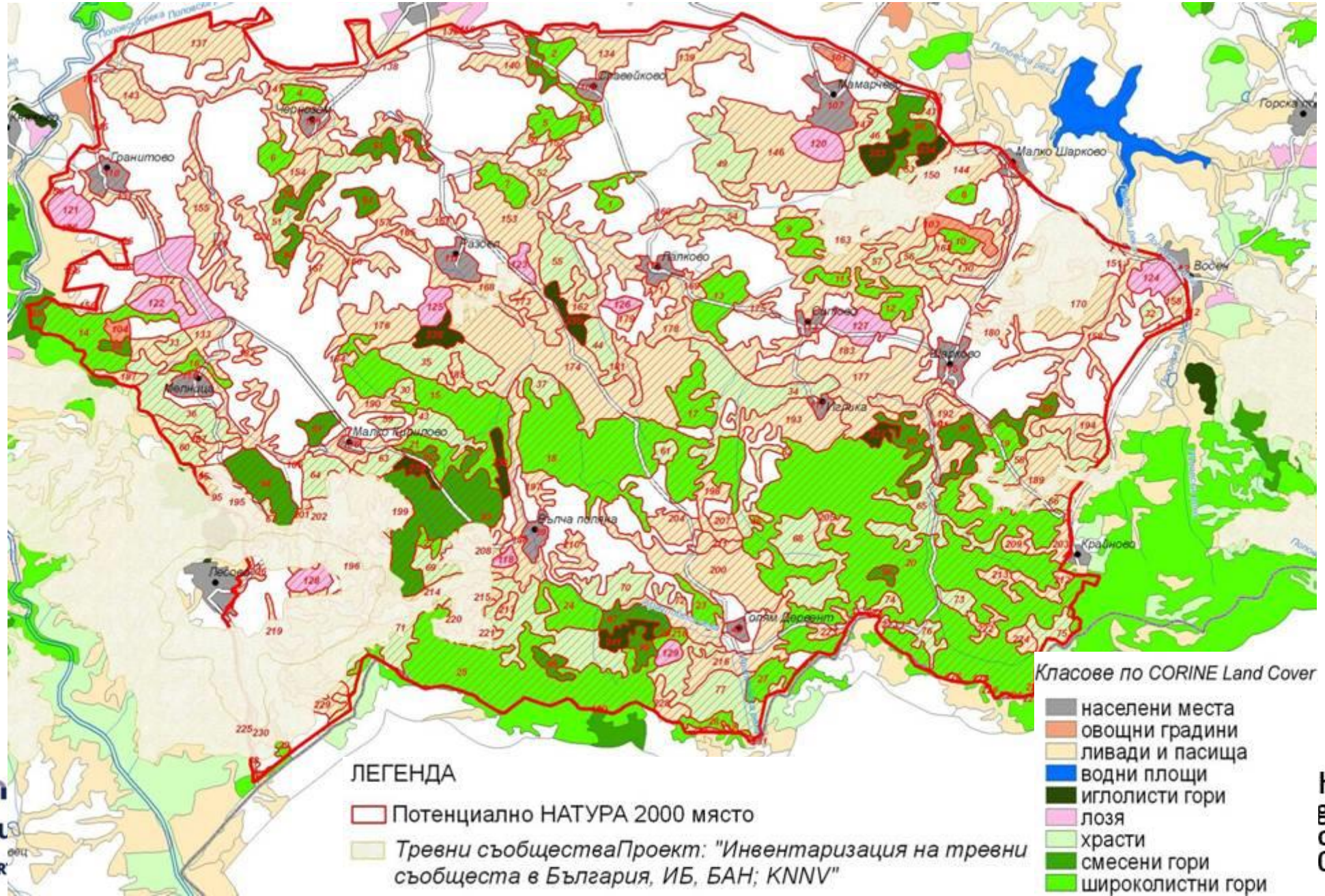
FIELD MAP
Scale 1:100000

LEGEND

- Settlements
- Regional centers
- Municipal centers
- Contour lines at intervals of 200 m
- State boundary
- Road net
- Regional boundaries
- Boundary of regional and municipal towns
- Railway net
- Municipal boundaries
- Hydrological net
- Important Bird Areas
- CORINE site with an area > 100 ha
- CORINE site with an area < 100 ha
- Rocks
- Orchards
- Vineyards
- Pastures
- Shrubs and herbaceous association
- Water bodies
- Beaches, dunes and sands
- Rice fields
- Broad-leaved forests
- Coniferous forests
- Mixed forests

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Field map of potential Natura 2000 site "Derventski vazvisheniya 1" – Sources: CORINE Land Cover, grassland inventory project



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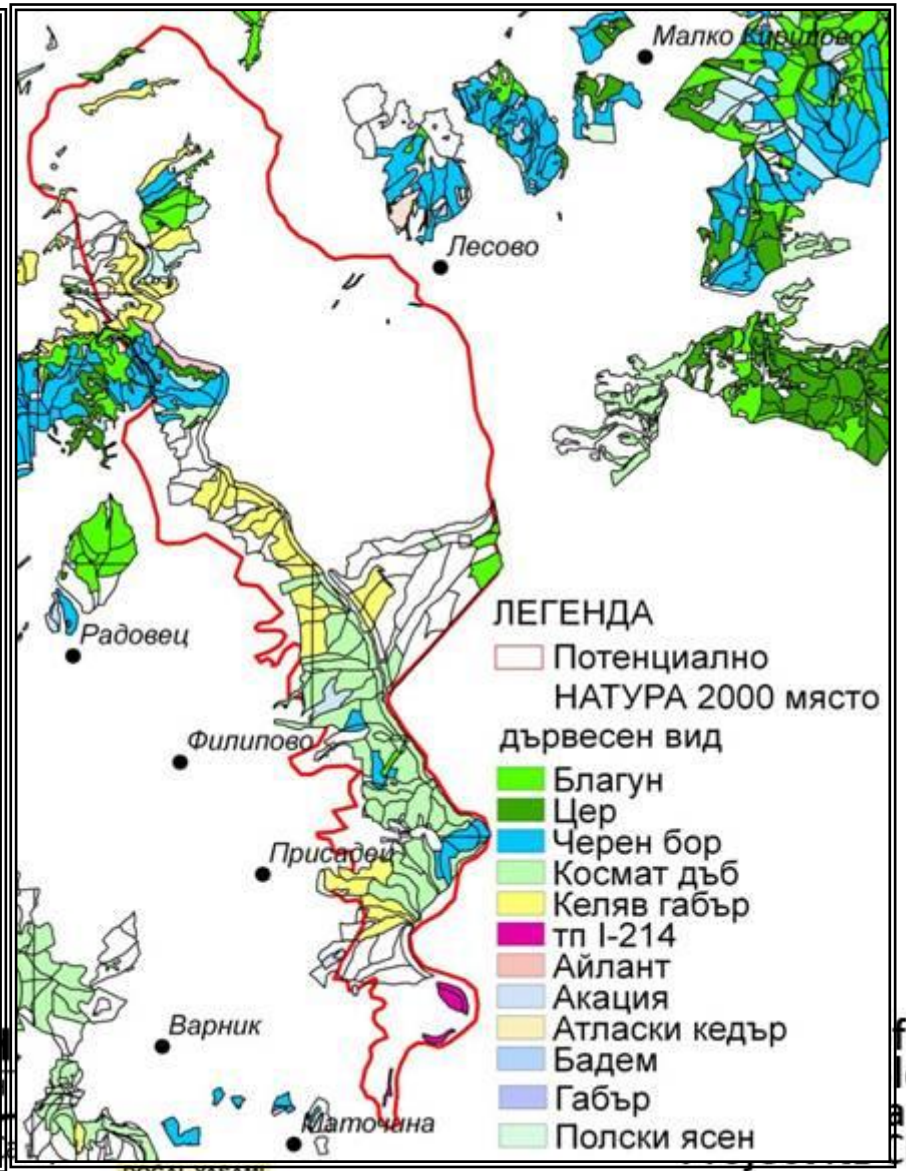
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Potential Natura 2000 site “Jdreloto na reka Tundja”, BG0000217

CORINE Land cover



Forestry management plan map



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Flora and Habitats team







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Birds Team









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Mammals Team









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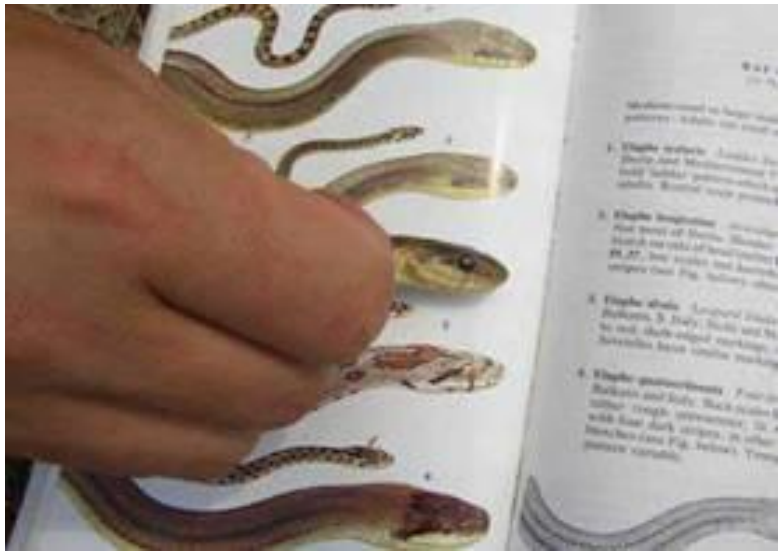
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Herpethofauna Team











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Ihtiofauna Team







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Invertebrates Team





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Marine habitats Team











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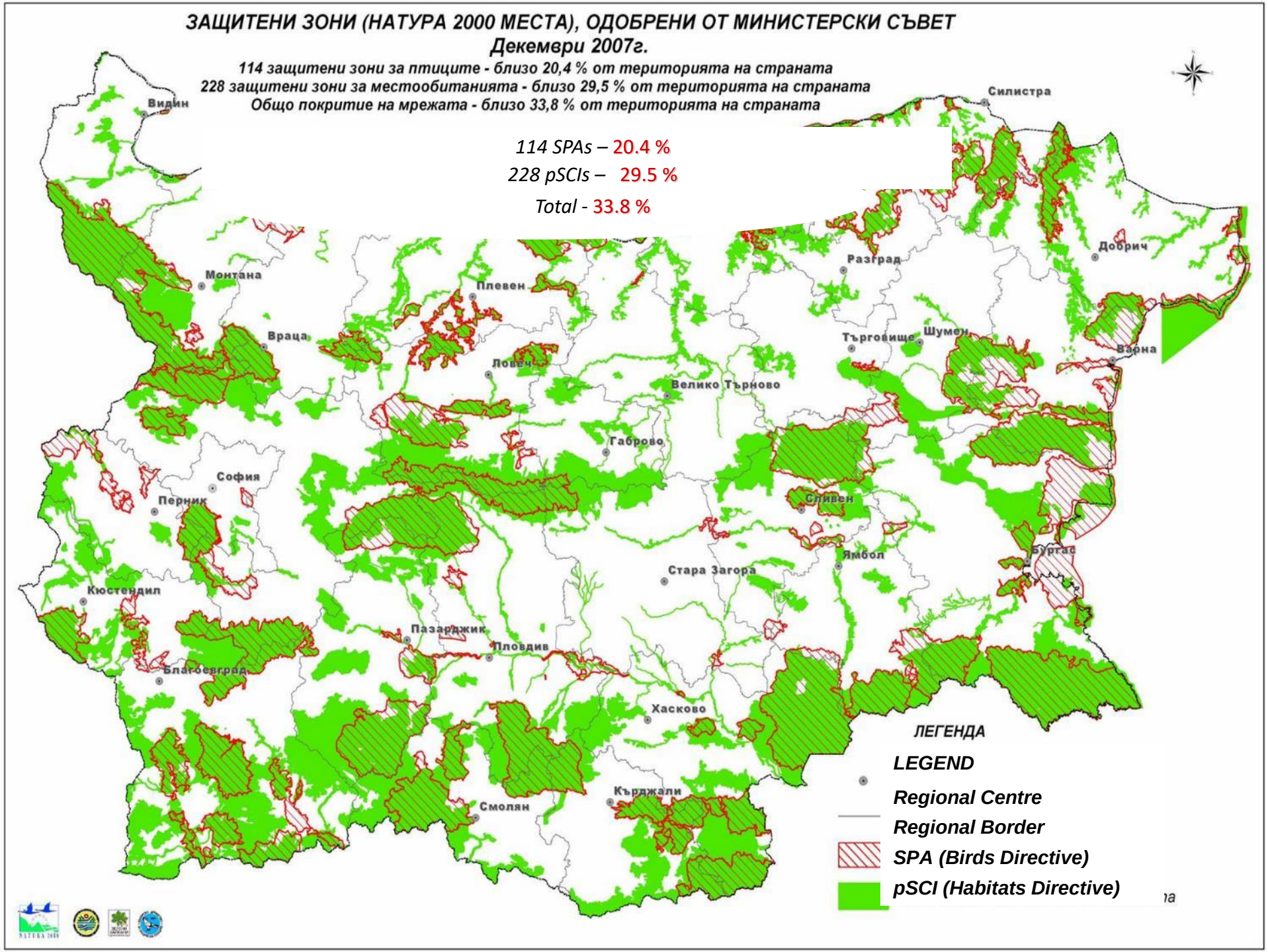
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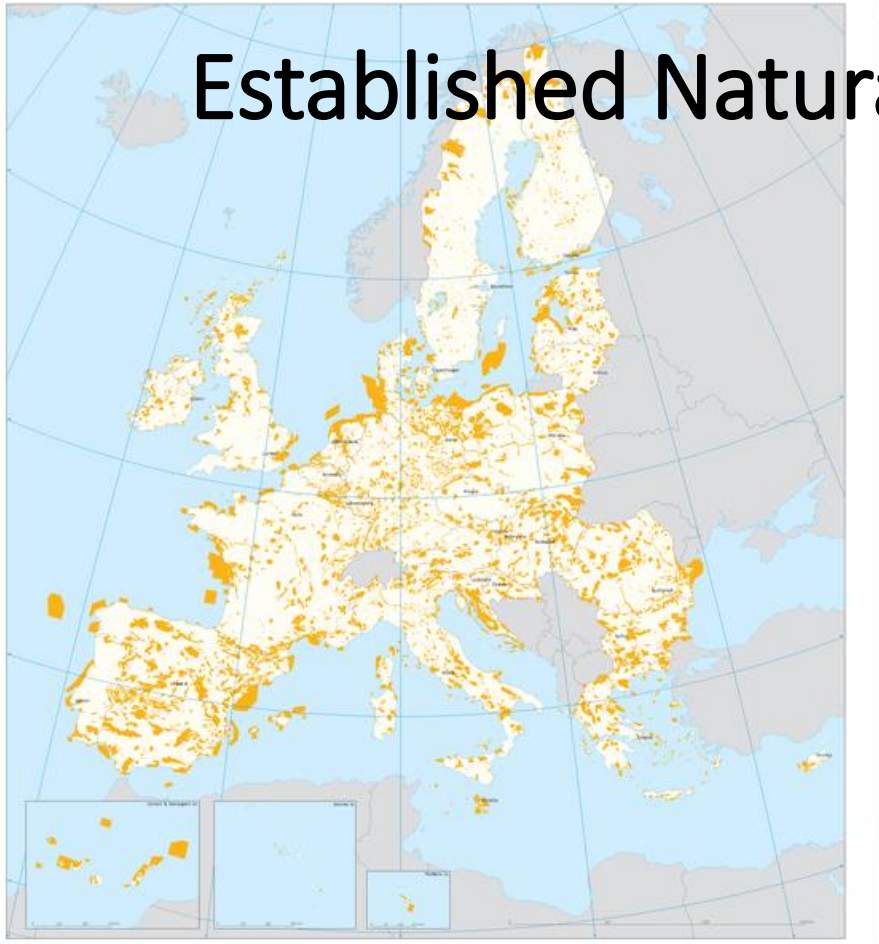


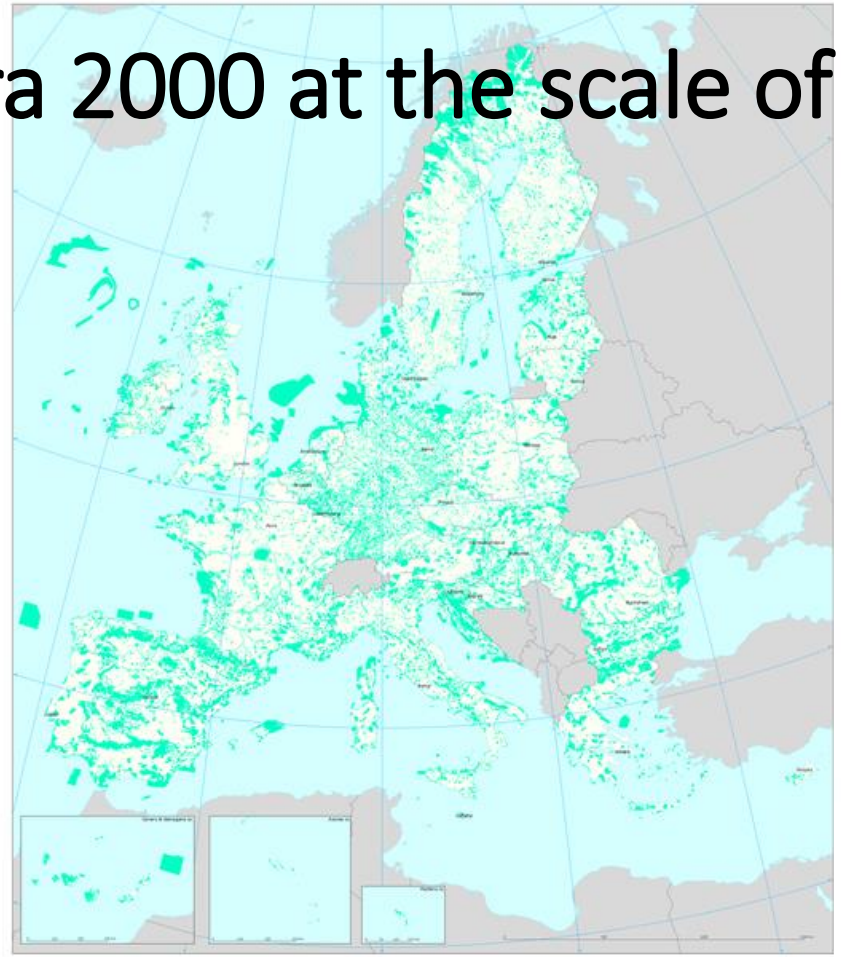
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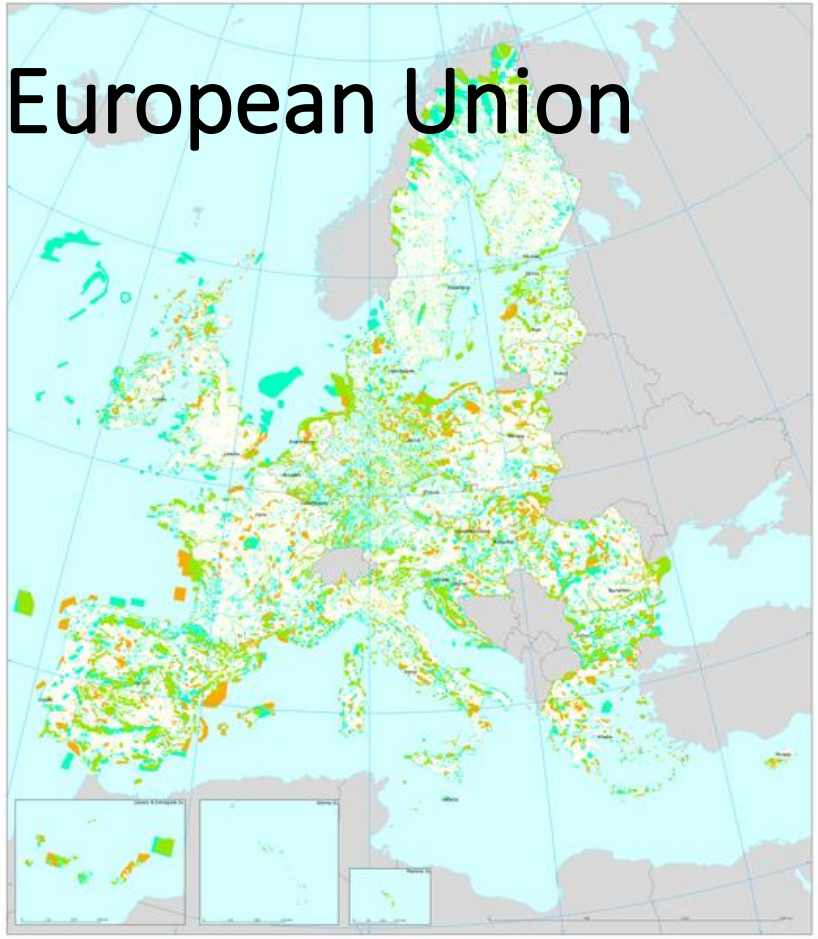
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Established Natura 2000 at the scale of European Union







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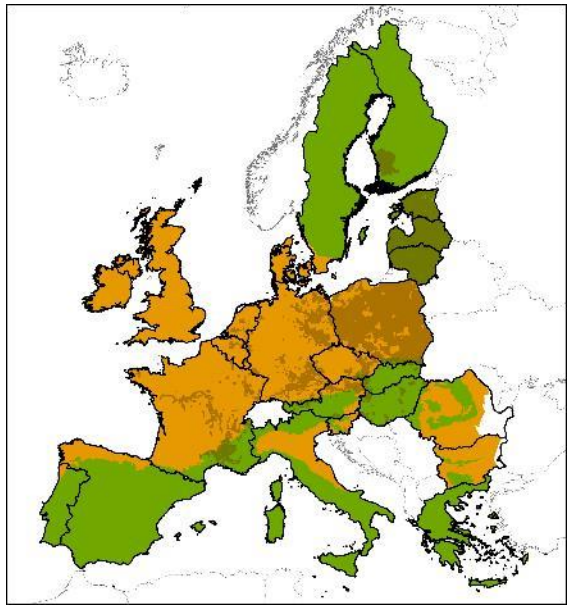
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Inventories mapping, assessments of Natura 2000 reference habitats and species in terms to report under Article 17 of the Habitats Directive



http://bd.eionet.europa.eu/activities/Reporting/Article_17

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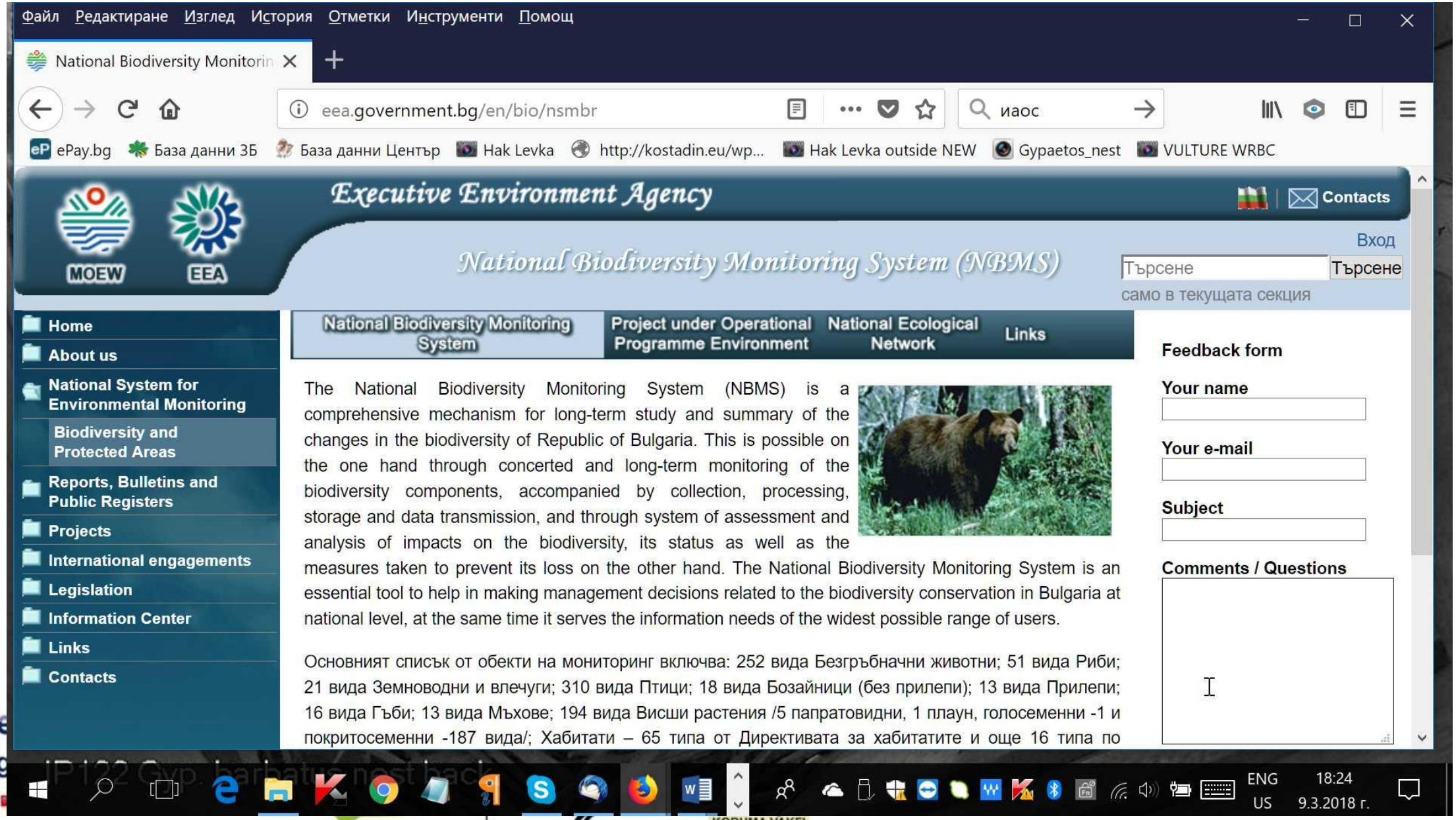
Inventories mapping, assessments of Natura 2000 reference bird species in terms to report under Article 12 of the Birds Directive



http://bd.eionet.europa.eu/activities/Reporting/Article_12

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The (Bulgarian) National Biodiversity Monitoring System



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The (Bulgarian) National Biodiversity Monitoring System

The National Biodiversity Monitoring System (NBMS) is a comprehensive mechanism for long-term study and summary of the changes in the biodiversity of Republic of Bulgaria. This is possible on the one hand through concerted and long-term monitoring of the biodiversity components, accompanied by collection, processing, storage and data transmission, and through system of assessment and analysis of impacts on the biodiversity, its status as well as the measures taken to prevent its loss on the other hand. The National Biodiversity Monitoring System is an essential tool to help in making management decisions related to the biodiversity conservation in Bulgaria at national level, at the same time it serves the information needs of the widest possible range of users.

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The (Bulgarian) National Biodiversity Monitoring System

Основният списък от обекти на мониторинг включва: 252 вида Безгръбначни животни; 51 вида Риби; 21 вида Земноводни и влечуги; 310 вида Птици; 18 вида Бозайници (без прилепи); 13 вида Прилепи; 16 вида Гъби; 13 вида Мъхове; 194 вида Висши растения /5 папратовидни, 1 плаун, голосеменни -1 и покритосеменни -187 вида/; Хабитати – 65 типа от Директивата за хабитатите и още 16 типа по Палеарктическата класификация, които нямат съответствие с кодовете по Директивата за хабитатите.

За всички обекти са определени и местата за наблюдение. За по-голямата част от обектите има разработени методики за наблюдение и полеви формуляри за събиране на данните.

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Specific groups of bird species requires specific methodologies of inventories, mapping, evaluation of conservation status etc.

According to birds lifecycle:

- Breeding
- Wintering
- Migrating

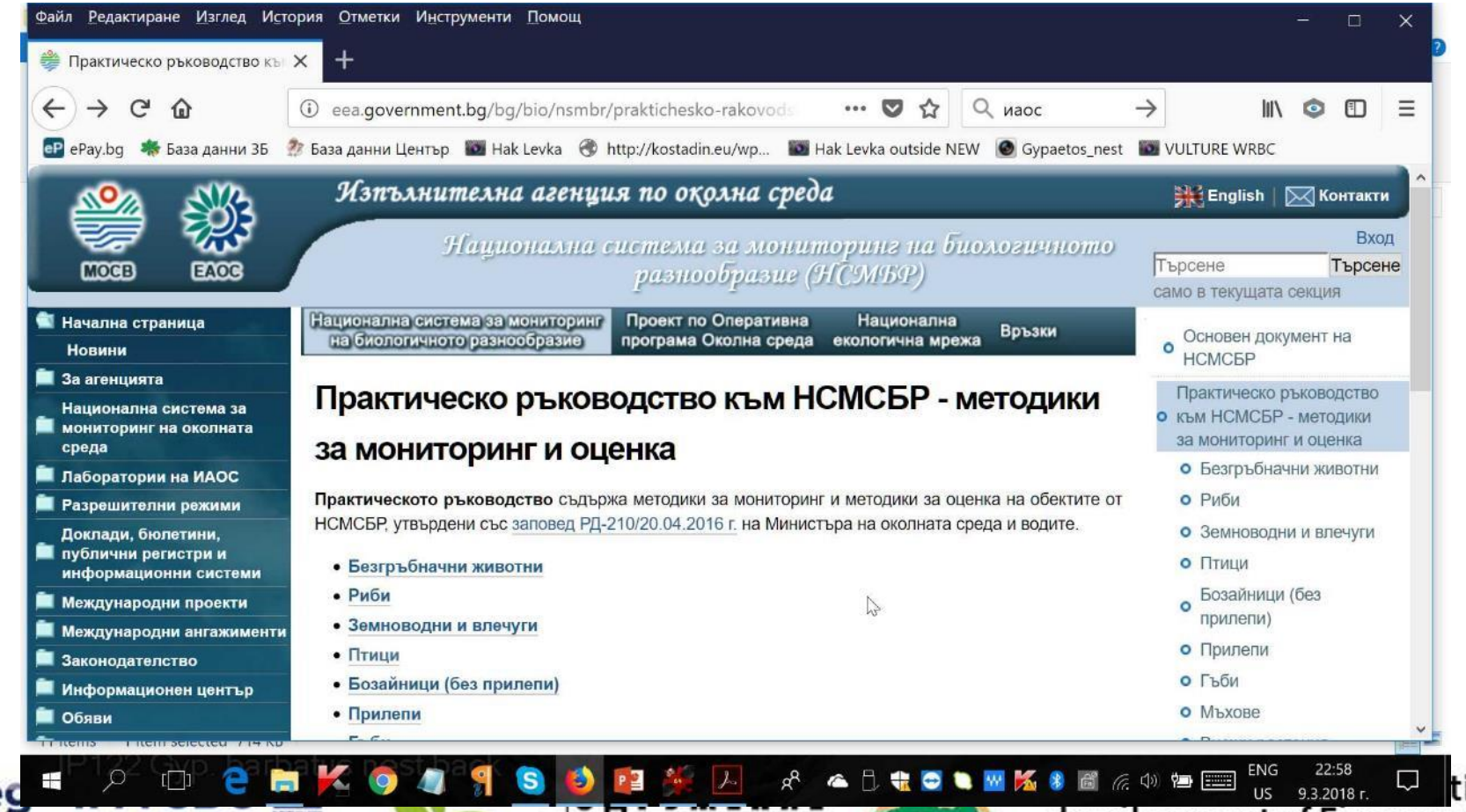
According to distribution:

- Widespread
- Inhabiting typical specific habitats
- Rare

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NBMS Practical guideline – methodologies for monitoring and assessement

http://eea.government.bg/bg/bio/nsmbr/prakticheski-rakovodstvo-metodiki-za-monitoring-i-otsenka



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NBMS Practical guideline – methodologies for monitoring and assessement

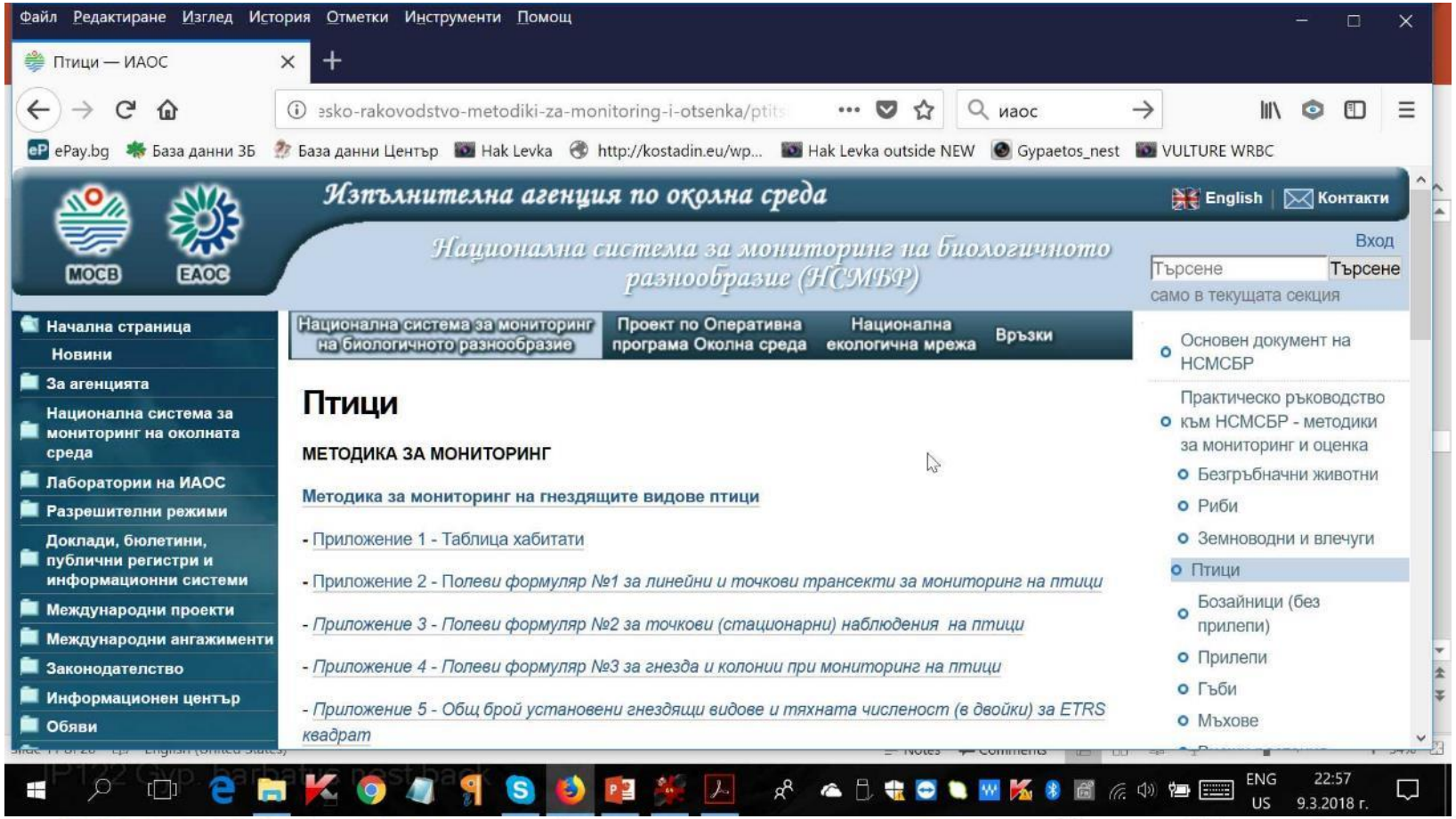
http://eea.government.bg/bg/bio/nsmbr/prakticheskо-rakovodstvo-metodiki-za-monitoring-i-otsenka

- **Безгръбначни животни Invertebrates**
- **Риби Fish**
- **Земноводни и влечуги Amphibians and Reptilians**
- **Птици Birds**
- **Бозайници (без прилепи) Mammals (excluding bats)**
- **Прилепи Bats**
- **Гъби Fungi**
- **Мъхове Bryophytes**
- **Висши растения Higher plants**

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NBMS Birds: Methodology for monitoring

http://eea.government.bg/bg/bio/nsmbr/prakticheskо-rakovodstvo-metodiki-za-monitoring-i-otsenka/ptitsi



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NBMS Birds: Methodology for monitoring

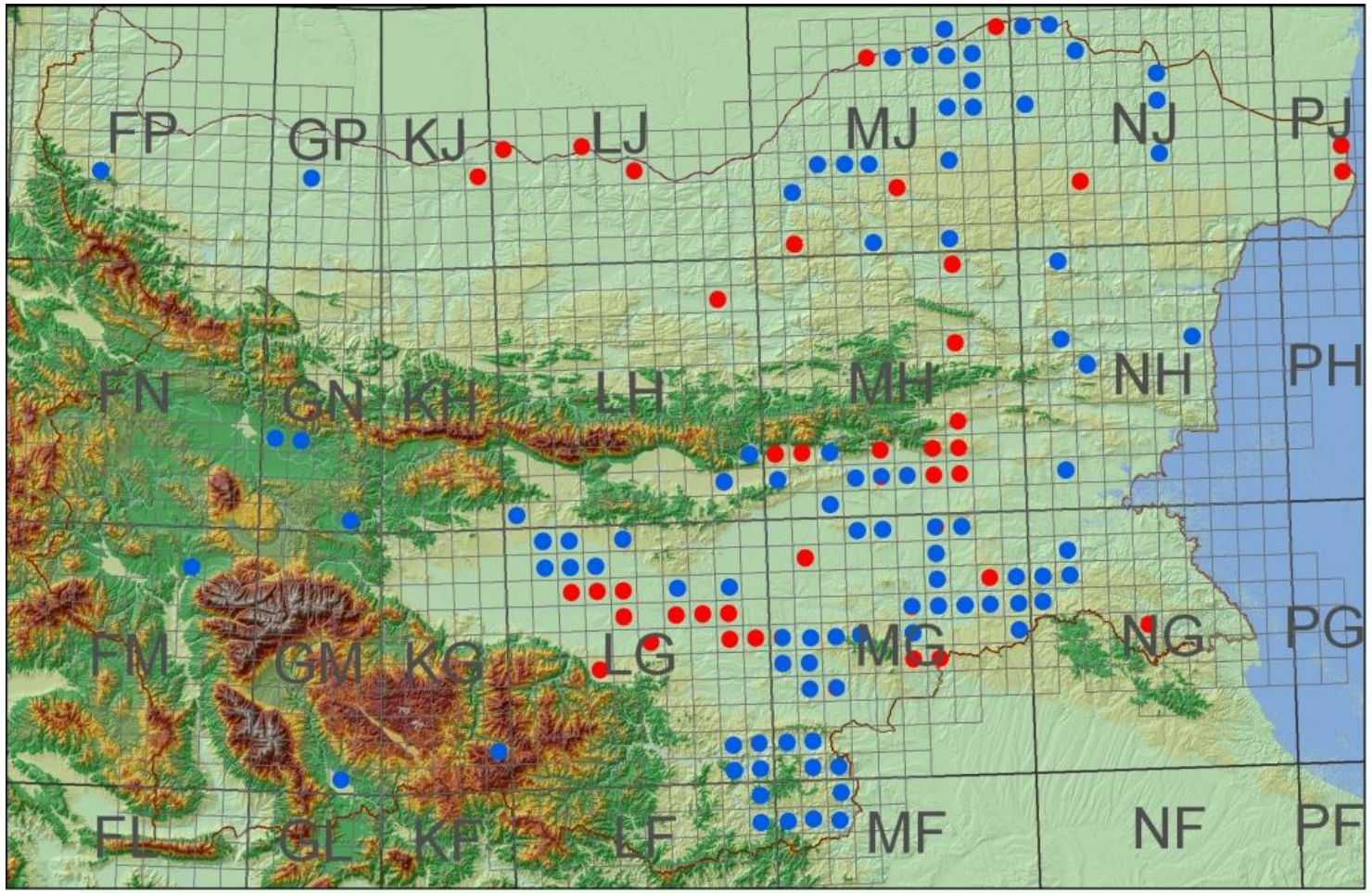
- **Методика за мониторинг на гнездящите видове птици Methodology for nesting birds**
- **-** Приложение 1 - Таблица хабитати
- **-** Приложение 2 - П*олеви формуляр №1 за линейни и точкови трансекти за мониторинг на птици* ***Field form for linear and point transects***
- - *Приложение 3 - Полеви формуляр №2 за точкови (стационарни) наблюдения на птици* ***Field form for point observations***
- - *Приложение 4 - Полеви формуляр №3 за гнезда и колонии при мониторинг на птици* ***Field form for nests and colonies***
- - *Приложение 5 - Общ брой установени гнездящи видове и тяхната численост (в двойки) за ETRS квадрат*
- - *Приложение 6 - Избрани ETRS квадрати за картиране по видове*

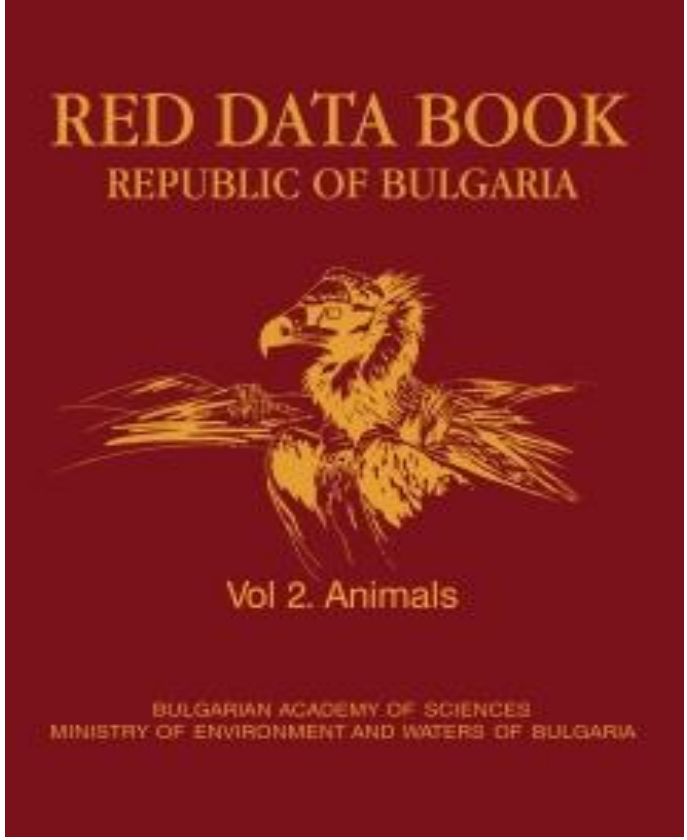
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Monitoring of nesting bird species

Red Data Book of the Republic of Bulgaria

Volume 2 - Animals



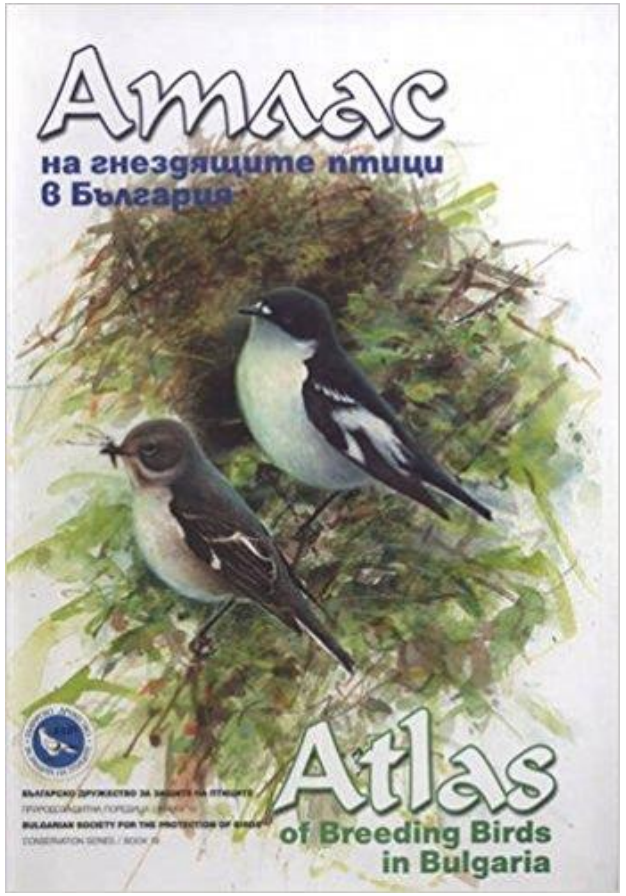


Black Kite (distribution map)

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Atlas of Breeding Birds in Bulgaria

•January 2007
•DOI
•10.13140/2.1.4536.1927
•Edition: First
•Publisher: Bulgarian Society for the Protection of Birds
•Editor: Petar Iankov
•ISBN: 978-954-91421-7-4
•Projects
•Bird Atlas Work in Bulgaria
• Petar Iankov



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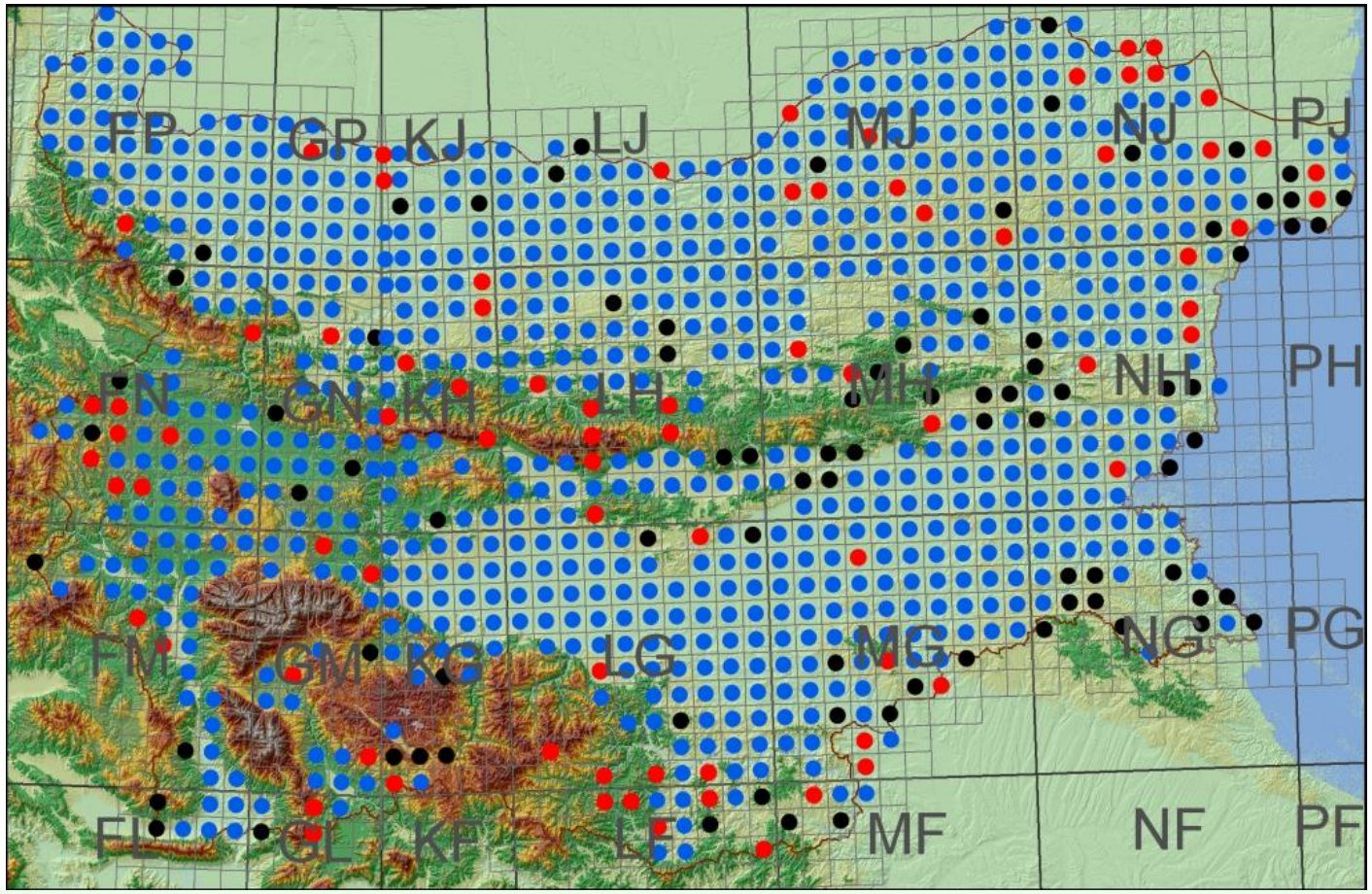
NBMS Birds: Methodology for monitoring

- **Методика за мониторинг на бял щъркел *(Ciconia ciconia)*** ***White stork***
- - *полеви формуляр*

- **Методика за мониторинг на зимуващи птици** **Wintering birds**
- **-** *Списък на водоеми и маршрути за провеждането на средно зимно преброяване в рамките на Националната система за мониторинг на биологичното разнообразие в България през 2018 г.* ***Target sites of MWC***
- - *Приложение 1*
- Полеви формуляр - среднозимно преброяване на водолюбивите птици (Word файл) **Field form of MWC**
- Полеви формуляр - среднозимно преброяване на водолюбивите птици (Excel файл) **Field form of MWC**

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Monitoring scheme: Monitoring of White Stork



● Site before 1985 ● Site before 2003 ● Site after 2003



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Monitoring scheme: Monitoring of wintering birds







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Monitoring scheme:
Monitoring of wintering birds – roosting place





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Методика за мониторинг на обикновени видове птици **Common bird species**

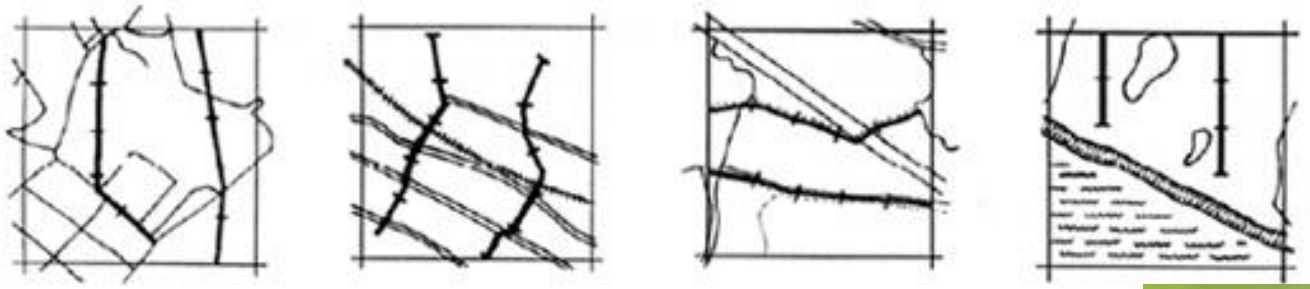
Методика за мониторинг на мигриращи реещи се видове птици **Migrating soaring birds**

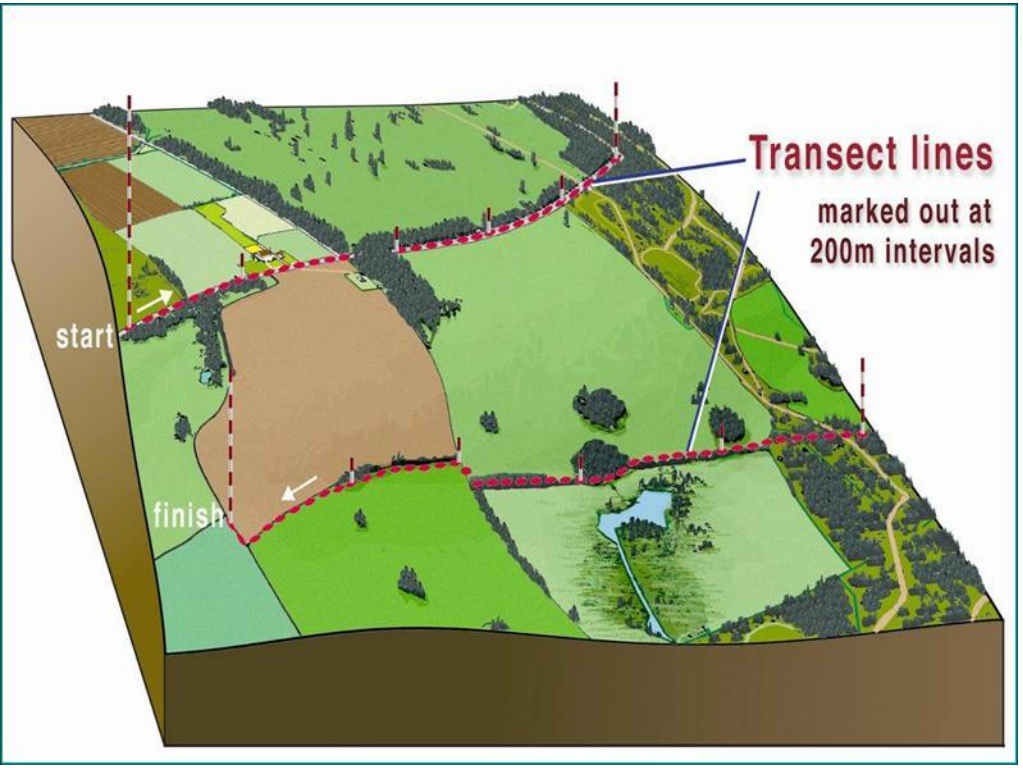
- - *Приложение 1 - формуляр 1 - Б1*
- - *Приложение 1 - форма М0 - обща справка за място на наблюдение* *Site description*
- - *Приложение 1 - форма М1 – стандартна* ***Data form (standard)***
- - *Приложение 1 - форма М2 – лястовици* ***Data form - swallows***
- - *Приложение 1 - форма М3 – нощувки* ***Data form – roosting sites***
- - *Приложение 1 - форма М4 - пъдпъдък и ливаден дърдавец* ***Data form: C.coturnix and C.crex***
- - *Приложение 1 - форма М5 - нощни птици* ***Data form – nocturnal birds***
- - *Приложение 2 - Стандарти за измерване и записване на физичните характеристики на метеорологичните условия* ***Standard for recording meteorological conditions***

Методика за мониторинг в орнитологично важни места **Important Bird Areas**

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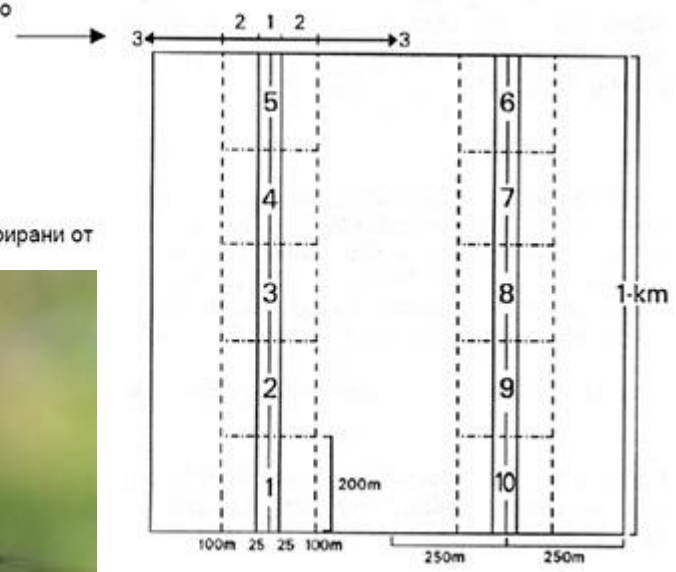
Monitoring scheme: Monitoring of common bird species





Категории според разстоянието

Частите на трансекта са номерирани от 1 до 10.



d



Код и пълно име на вида	Категория според разстоянието	Брой на птиците наблюдавани или чути във всеки от участъците на трансекта									
		1	2	3	4	5	6	7	8	9	10
К Кос (T. merula)	1	1			1						1
	2	1						1			
	3	1								1	
	F										

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Monitoring scheme: Monitoring of migrating soaring birds



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Methods used for monitoring of birds in Bulgarian NBMS

- Transects
- Point transects
- Transects in rivers, cliffs, buildings etc.,
- Detailed investigation
- Permanent (stationary) points
- Transects with listening

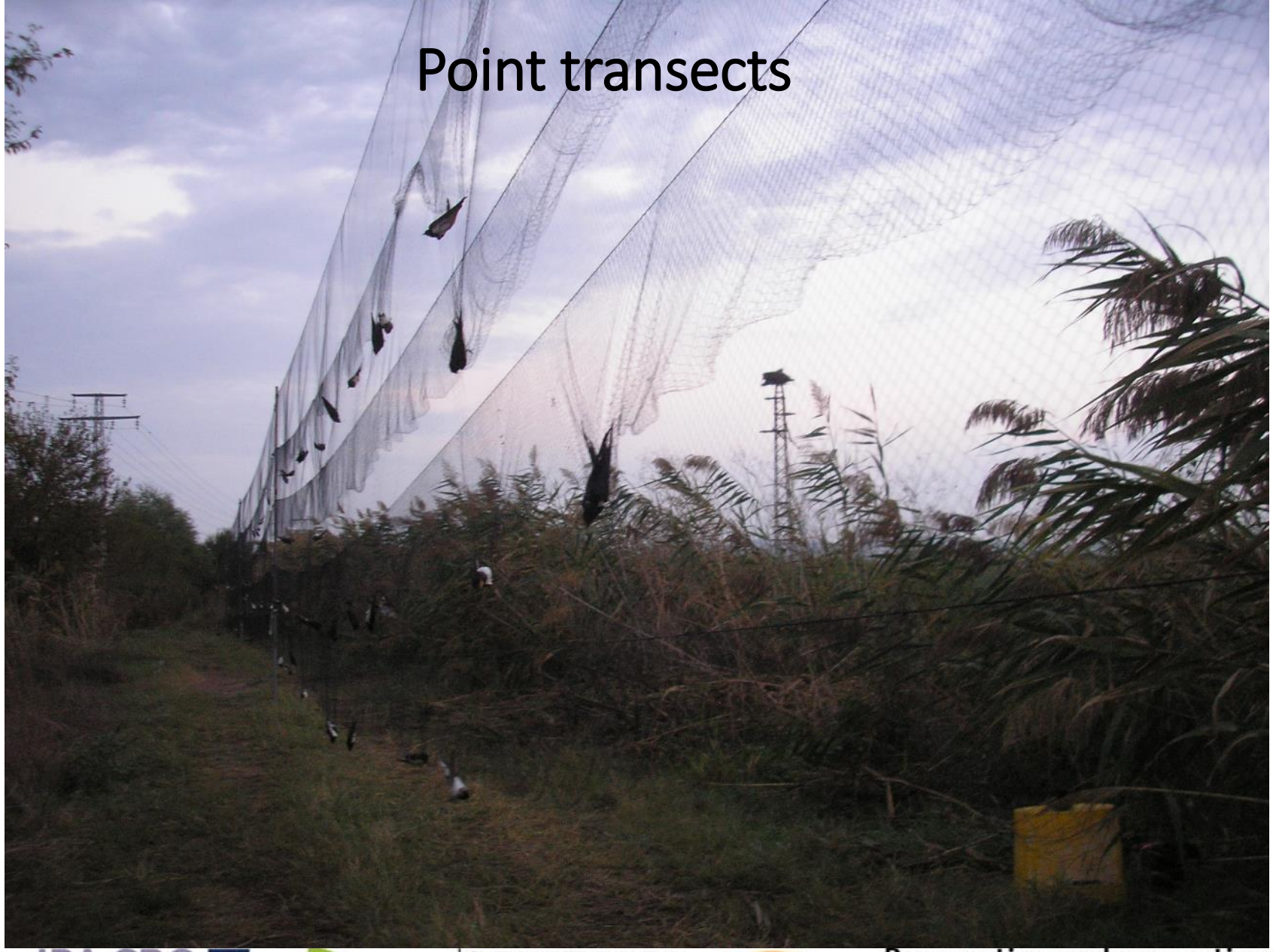
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Transects



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Point transects



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Transects in rivers, cliffs, buildings etc.,





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Permanent (stationary) points



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Transects with listening









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NBMS: Methodologies for assessment of bird species conservation status

- NBMS Methodology for breeding bird species - 22 methodologies developed in accordance to the approaches of monitoring of 22 different groups of birds

- **Методика за оценка на състоянието на гнездящите видове птици Nesting birds**
- *Приложение 7*
- *Приложение 8*

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According to the approaches of monitoring – 22 groups of birds (22 methodologies developed in Bulgarian NBMS)

- **1. Водолюбиви птици – гмурци *(Podicipedidae),* патици *(Anatidae),* ням лебед (*Cygnus olor*), сива гъска *(Anser anser),* къдроглав пеликан *(Pelecanus crispus),* лиска *(Fulica atra),* зеленожка *(Gallinula chloropus)***
- **2. Голям воден бик *(Botaurus stellaris)* и малък воден бик *(Ixobrychus minutus)***
- **3. Чаплови птици *(Ardeidae),* блестящ ибис *(Plegadis falcinellus),* лопатарка *(Platalea leucorodia)* и корморани *(Phalacrocoracidae*)**
- **4. Бял щъркел *(Ciconia ciconia)***
- **5. Дневни грабливи птици *(Falconiformes),* гнездящи на дървета или в горски масиви и черен щъркел *(Ciconia nigra)* (за двойки гнездящи в гори)**

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- **6. Скално гнездящи дневни грабливи птици - соколи *(Falconidae),* скален орел *(Aquila chrysaetos),* белоопашат мишелов *(Buteo rufinus),* черен щъркел (Ciconia nigra) и други скално гнездящи видове птици -бързолети *(Apodiformes),* лястовици *(Hirundinidae),* скалолазка *(Tichodroma muraria),* скална зидарка *(Sitta neumayeri),* скални дроздове *(Monticola spp.)***
- **7. Кокошеви птици в открити пространства (пъдпъдък *(Coturnix coturnix),* яребица *(Perdix perdix),* планински кеклик *(Alectoris graeca),* тракийски кеклик *(Alectoris chukar)*)**
- **8. Лещарка *(Bonasa bonasia)***
- **9. Глухар *(Tetrao urogallus)***
- **10. Дърдавцови птици – ливаден дърдавец *(Crex crex),* воден дърдавец *(Rallus aquaticus)* и пъструшки *(Porzana sp.)***
- **11. Дъждосвирцови птици *(сем.Charadriidae, Scolopacidae)***
- **12. Чайки и рибарки *(Laridae***
- **13. Горски сови *(Aegolius funereus, Glaucidium passerinum, Strix aluco, Strix uralensis, Otus scops, Asio otus)***

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- **14. Забулена сова *(Tyto alba)* и домашна кукумявка *(Athene noctua)***
- **15. Бухал *(Bubo bubo)***
- **16. Бързолетоподобни птици *(Apodiformes)***
- **17. Кълвачоподобни птици *(Piciformes)***
- **18. Козодой *(Caprimulgus europaeus)***
- **19. Земеродно рибарче *(Alcedo atthis)***
- **20. Синявица *(Coracias garrulus)***
- **21. Обикновен пчелояд *(Merops apiaster)***
- **22. Врабчоподобни птици *(Passeriformes),* папуняк *(Upupa epops),* обикновена кукувица *(Cuculus canorus),* гълъбови птици *(Columbidae)* и др.**

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According to the approaches of conservation status assessment – 11 groups of birds

1. Waterfowl
2. Bitterns
3. Herons, Cormorants and Pelicans,
4. White stork
5. Birds of pray and similar
6. Cliffs, rivers and banks
7. Colonial waders
8. Eurasian woodcock (*Scolopax rusticola)*
9. Capercaillie
10. Passeriformes
11. Owls, Woodpeckers and Crex

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