



**REPUBLIC of CROATIA**  
Ministry of Economy and  
Sustainable Development

Institute for Environment and Nature

# Nature protection information system

**Luka Katušić**

**Ministry of Economy and Sustainable Development - Institute for Environment and Nature,  
Department for Nature Protection**

Zagreb, 16.02.2024.



**REPUBLIC of CROATIA**  
Ministry of Economy and  
Sustainable Development

Institute for Environment and Nature

- Expert advisory body of the Ministry of Economy and Sustainable Development

Nature



Nature  
Protection Act



Nature Protection  
Information System  
(NPIS)

Environment



Environmental  
Protection Act



Croatian Environmental  
Information System  
(CEIS)

## NPIS and legislation

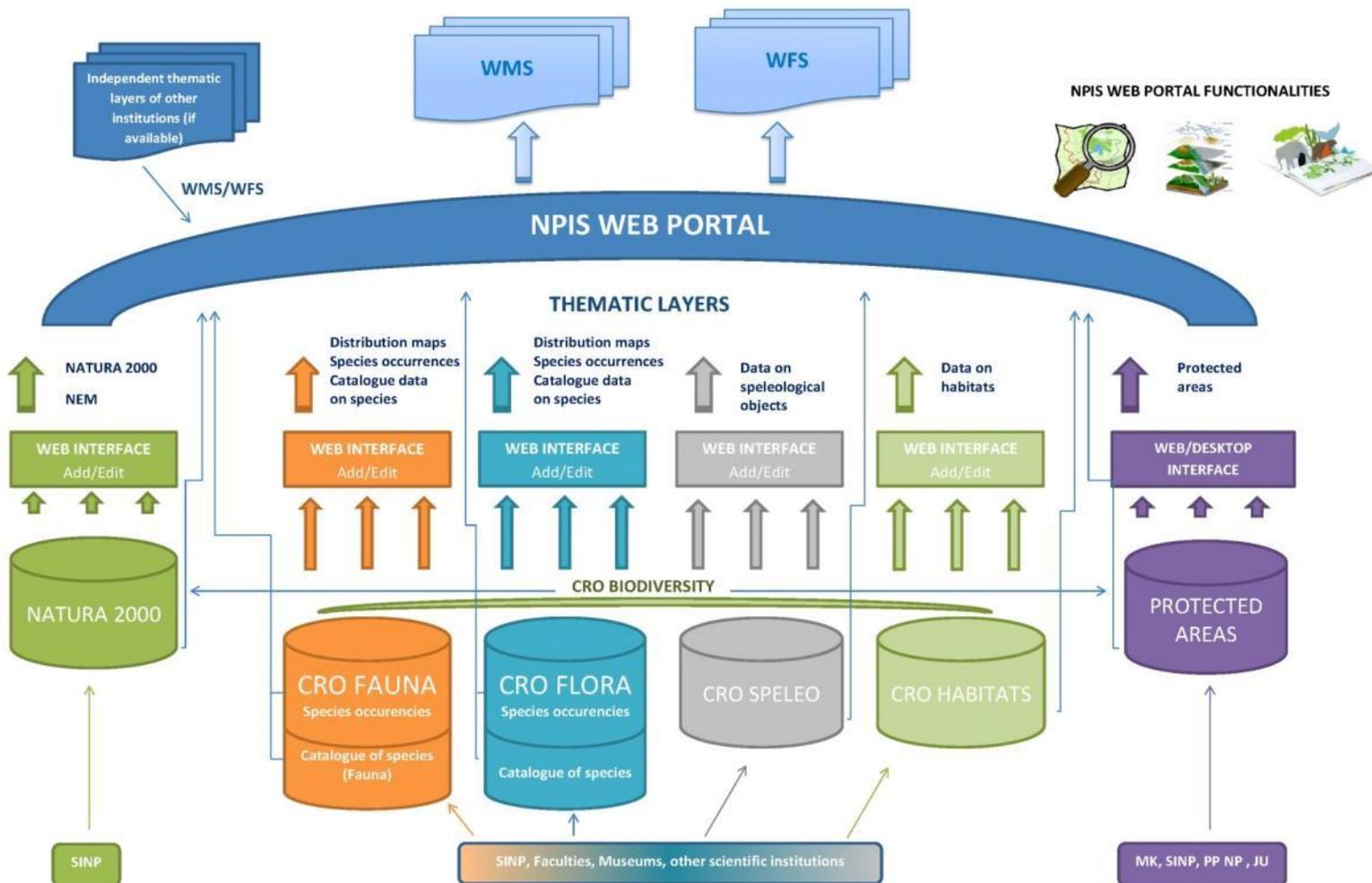
- Nature Protection Act (OG 80/13, 15/18, 14/19, 127/19)

### NPIS



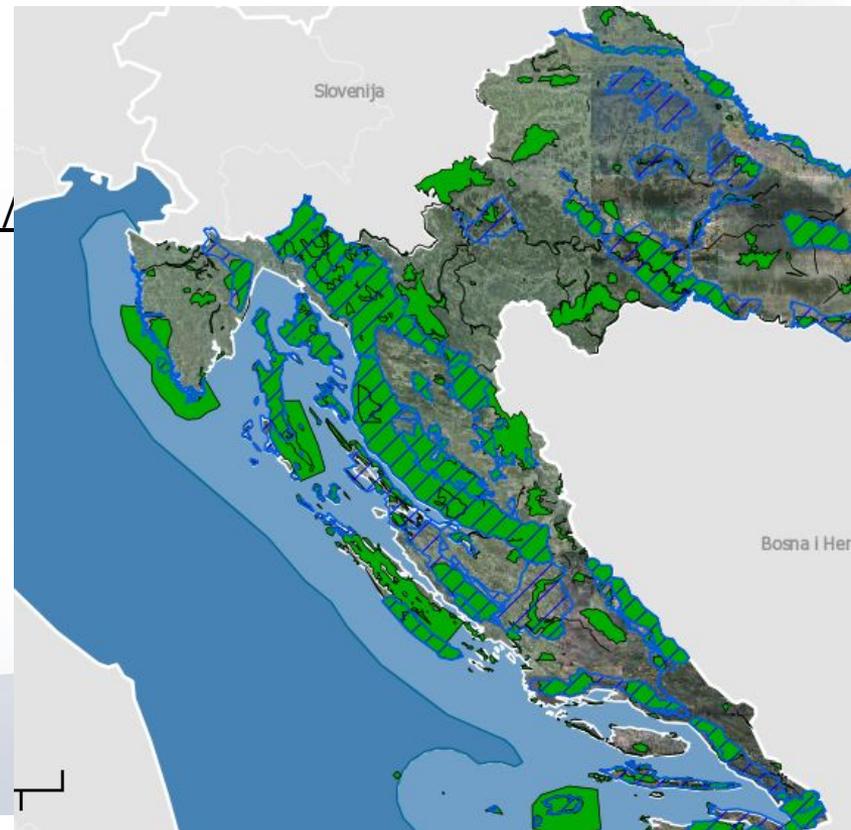
- Information system for expert and scientific data on biodiversity, geodiversity and nature protection
- Mantained by IEAN
- Data on the state of nature/environment should be publicly available (all public institutions)

# INFORMACIJSKI SUSTAV ZAŠTITE PRIRODE (ISZP)



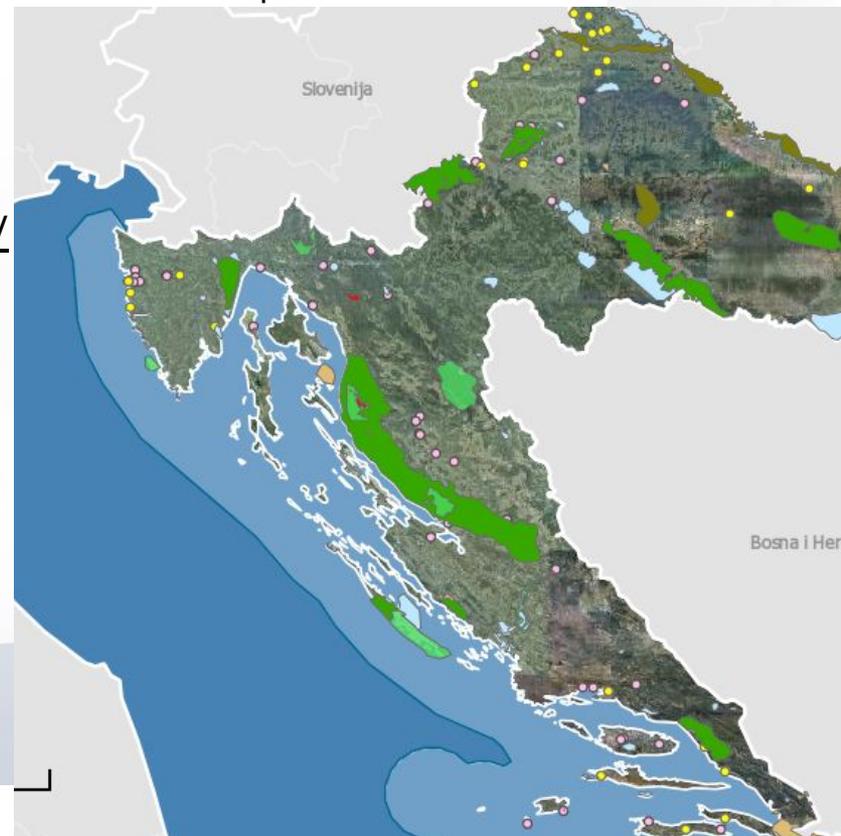
## NATURA2000

- Data about EU Natura 2000 in Croatia
  - site demarcation
  - target species and habitats
  - Standard Data Forms (SDF)
- 
- available on: <http://www.bioportal.hr/gis/>
  - WMS: <http://services.bioportal.hr/wms>
  - WFS: <http://services.bioportal.hr/wfs>



## Protected areas

- Data on nature protected areas in Croatia
  - Area demarcation
  - Various information about protected area (area, date of proclamation, administrative units...)
  - Proclamation documents
- 
- available on: <http://www.bioportal.hr/gis/>
  - WMS: <http://services.bioportal.hr/wms>
  - WFS: <http://services.bioportal.hr/wfs>





## Catalog Of Habitat Types

### Filter

#### Habitat type filters

Add

Type Code:

Type Name:

Classification:

NHC 2014 - National Habitat Classification 2014

Apply Filter Reset Filter Show More

### Habitat Types

Code	Name	Classification
C.2.1.1.	Prijelaz između visokih šaševa i higrofilnih travnjaka	NHC 2009 - National Habitat Classificatio
C.2.1.1.1.	Prijelaz između visokih šaševa i higrofilnih travnjaka	NHC 2009 - National Habitat Classificatio
C.2.2.	Vlažne livade Srednje Europe	NHC 2009 - National Habitat Classificatio
C.2.2.1.	Poplavne livade ošaka	NHC 2009 - National Habitat Classificatio
C.2.2.1.1.	Livade pilice i visokog trpuca	NHC 2009 - National Habitat Classificatio

View details Export

### Habitat Type - C.2.2. Vlažne livade Srednje Europe



### Habitat Type Details

Type Code : C.2.2.

Level : 3

Type Name: Vlažne livade Srednje Europe

Parent : C.2.

TURNED OFF!

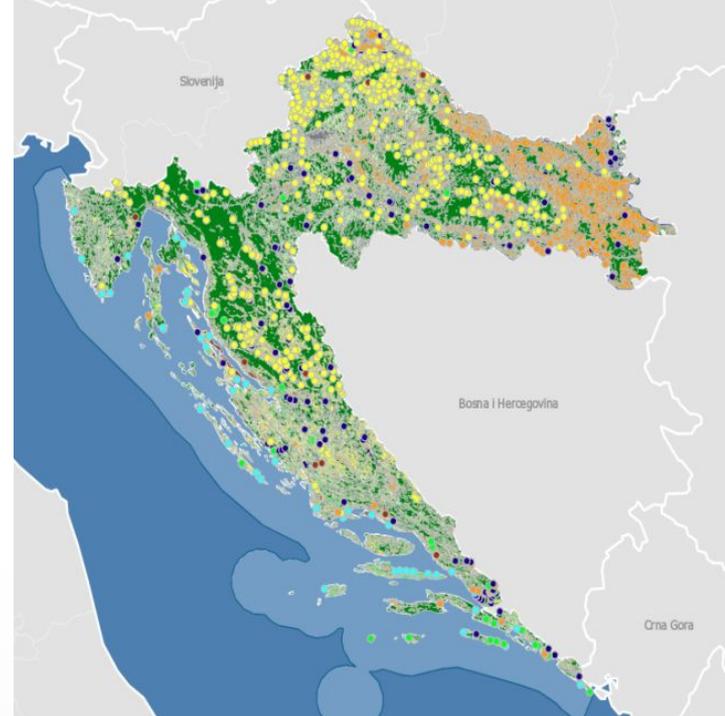




crohabitats

Habitat Map of the Republic of Croatia, 2016.

- EU Natura 2000 Integration Project
- MMU 1,56 ha
- Scale 1:25 000



Map of Marine Habitats of Croatia, 2023.

- EU OPKK project (2018–2023)
- complete detailed map for 51% of the surface of seabed habitats in Croatian Adriatic

- available on: <http://www.bioportal.hr/gis/>
- WMS: <http://services.bioportal.hr/wms>
- WFS: <http://services.bioportal.hr/wfs>

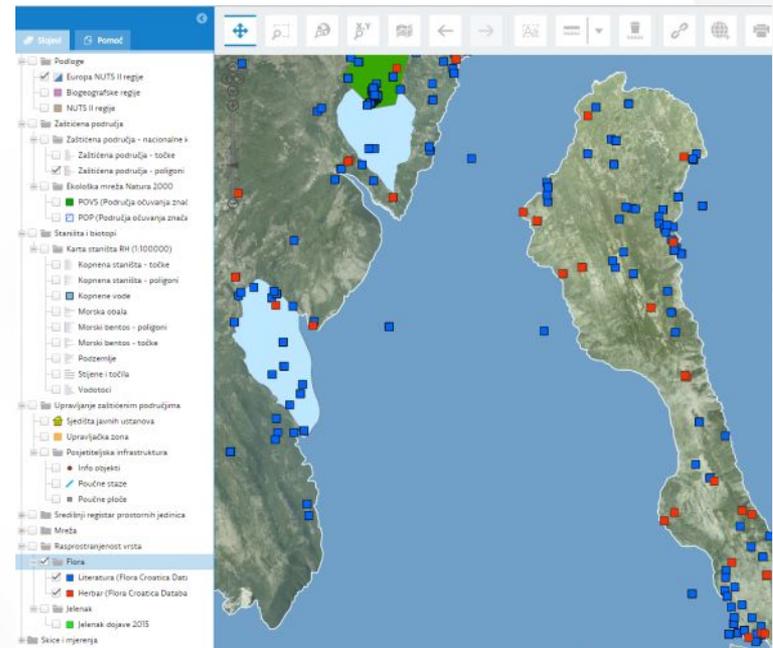


## Flora Croatica Database (<https://hirc.botanic.hr/fcd/>)

- Since 2014. Flora Croatica Database – part of NPIS
- Expert administration: Faculty of Science



The screenshot shows the homepage of the Flora Croatica Database. At the top, there is a navigation bar with 'Hrvatski' and 'English' options. Below this is a large banner with the text 'Dobro došli! Welcome!' and the FCDD logo. A 'Menu' section contains various links like 'Crvena knjiga', 'Bibliografija', 'Korisno bilje', etc. The main content area displays search results for 'Fritillaria meleagris L.', including a distribution map of Croatia and a list of records. The footer contains contact information and copyright details.

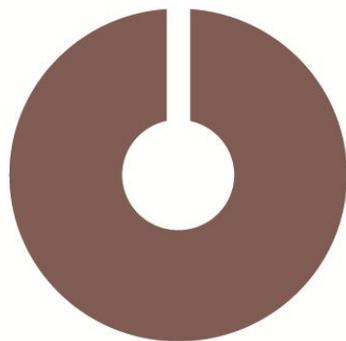


The screenshot shows a GIS application interface. On the left, there is a layer legend with various categories such as 'Podloge', 'Zaštićena područja', 'Sveučilišna i botanički', and 'Upravljanje zaštićenim područjima'. The 'Flora' layer is selected, showing a map of Croatia with numerous red and blue square markers indicating collection sites. The map is displayed in a satellite view.

- available on: <https://hirc.botanic.hr/fcd/>; <https://interni.bioportal.hr/user>
- On demand



**crospeleo**



**crospeleo**

#### Cave cadaster of the Republic of Croatia

- IEAN, caving clubs, Croatian Geological Survey
- cadastral data on 4500 caves

#### Cave literature and observation data

- Research projects of nature protection sector
- Literature data
- Caving clubs personal observations
- Data on cca 9000 caves



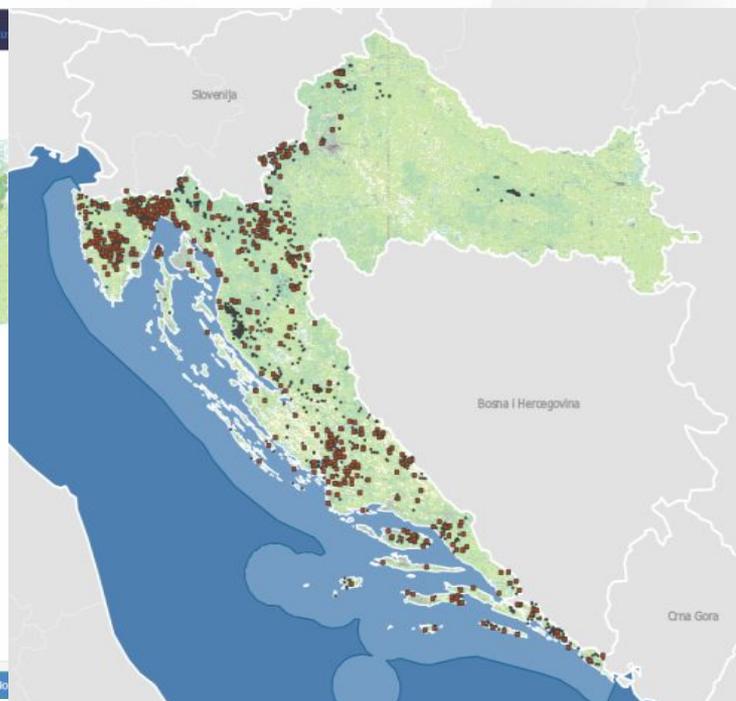
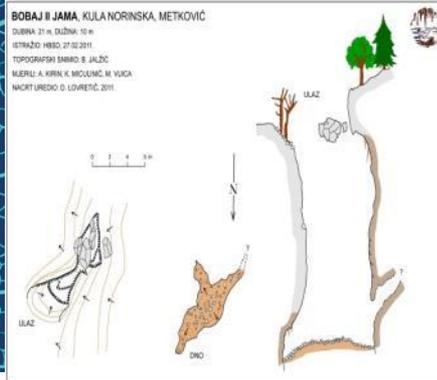
crospeleo

Available on: Registered (full) access <http://crospeleo.mingor.hr/>

Open (limited) access <http://www.bioportal.hr/gis/>

WMS: <http://services.bioportal.hr/wms>

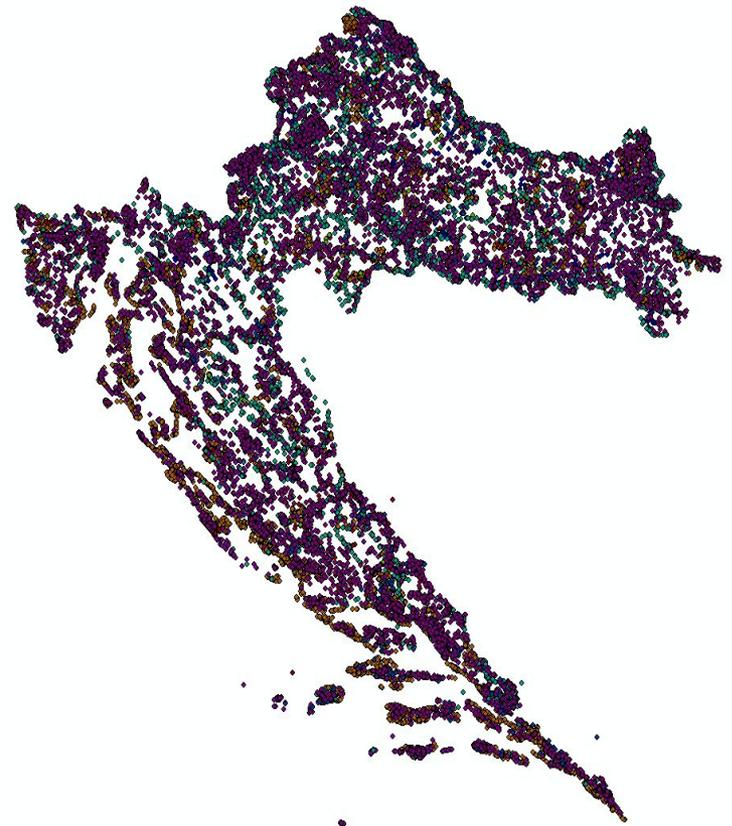
WFS: <http://services.bioportal.hr/wfs>





## crofauna

- Not functional
- Catalogue of Species
- Species occurrence data
  - Research projects
  - Expert personal observations
  - Museum & literature data
  - Public observations
- IEAN is administrating data from nature protection sector (cca 6000 reports)
- Large problem with data standardization!
- 40000 working hours for standardization
- Around 800 000 occurrence records prepared for import!
- standard data forms were suggested to all in the nature protection sector
- No database!!





**crofauna**

1. Attempt 2005 
2. Attempt 2012 
3. Attempt 2023 ?

OPKK 2014–2020 project *Development of the system for monitoring habitats and species of EU interest*



National biodiversity database!



## Open access to Australia's biodiversity data



132,992,113  
occurrence records



4,816  
datasets

Search species, datasets, and more...

 Search

# Living Atlases

The open community around the Atlas of Living Australia platform

## Living Atlas Croatia (July 2024)



Home Participants Resources News Projects Events Contact About ▾



**Benin Biodiversity Information Facility**  
Système d'Information sur la Biodiversité du Bénin

Mardi 27 April 2022  
Accueil / Contact / [Portail du GBIF Bénin](#)

**LES DONNÉES BÉNINOISES SUR LA BIODIVERSITÉ**

Le portail bilingue du GBIF assure l'accès aux données primaires sur la biodiversité fournies par des institutions béninoises. Ces données d'occurrences d'espèces sont issues de collections ou d'observateurs de terrain et ont une distribution géographique mondiale.

[CONSULTER LES OCCURRENCES](#)

Nom scientifique, noms vernaculaires, etc.

**JEUX DE DONNÉES** **ESPÈCES** **IMAGES**

Accès aux données d'occurrences et informations sur les jeux de données publiés par les institutions ou collectionneurs participant au GBIF (données, citations, etc.)

Accès aux images d'espèces animales et végétales faisant partie de la biodiversité du Bénin.

- November 2022  
     joins
- Institute for Environment and Nature  
     GBIF Node
  - Cooperation with institutions holding biodiversity data
  - Encourage data mobilization
  - Promote open biodiversity data



Improve availability of biodiversity data, crucial  
for biodiversity conservation

- 2023 CroMent project + GBIF Belgium  
     Data Mobilization Strategy



# Thank you for your attention

Ministry of Economy and Sustainable Development  
Institute for Environment and Nature  
Radnička 80/7  
10 000 Zagreb  
Croatia

Phone: ++385 1 488 68 40  
E-mail: [zavod@mingor.hr](mailto:zavod@mingor.hr)