## RS\_DU\_AFP05 Danube

## Pančevo

## Boundary of active floodplain with Restoration demand



Country: Serbia

Centroid: 44.829°N 20.616°E

active floodplain Type:

43.2 km<sup>2</sup>

River kilometre: **1160.9 - 1145.3** 

Floodplain length:

16.1 km

Floodplain

area:

HQ<sub>100</sub>: **15223 m³/s** 

Download floodplain object (ESRI Shape) http://www.geo.u-szeged.hu/images/DFGIS/RS\_DU\_AFP.zip



7 km

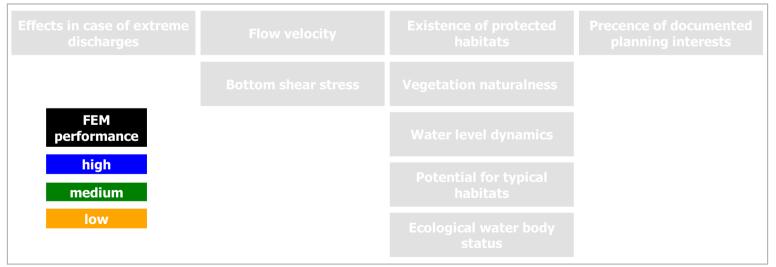
## **FEM PARAMETER:**

Minimum Parameter Set:

Download detailed report (PDF) http://www.geo.u-szeged.hu/images/DFGIS/RS\_DU\_AFP05.pdf

## **Hydraulics Hydrology Ecology Socio-Economics** Connectivity of floodplain **Potentially affected Peak reduction** Water level change water bodies **buildings Existence of protected** Flood wave translation Land use species

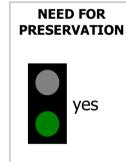
## Additional Parameter Set:

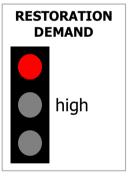


## **Danube Transnational Programme** Danube Floodplain

## **FEM-EVALUATION:**

based on minimum parameters





RO

## **Danube Floodplain**

## BG\_RO\_DU\_AFP01

RO: Ostroveni - Bistret area; BG: Kozlodui

- Oreahovo area



Danube

Country: Bulgaria / Romania Centroid: 43.779°N 23.811°E

active floodplain Type:

River kilometre: 703 - 677

Floodplain length:

25.2 km

Floodplain 60.1 km<sup>2</sup> area:

HQ<sub>100</sub>: nodata

Boundary of active floodplain with Restoration demand

**FEM PARAMETER:** 

Download floodplain object (ESRI Shape)

Minimum Parameter Set:

Download detailed report (PDF) http://www.geo.u-szeged.hu/images/DFGIS/BG\_RO\_DU\_AFP01.pdf

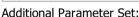
http://www.geo.u-szeged.hu/images/DFGIS/BG\_RO\_AFP.zip

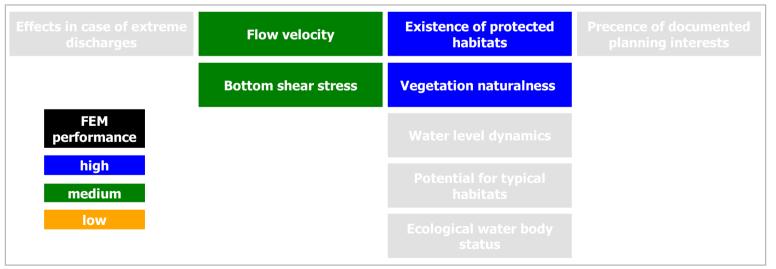
8 km

## **FEM-EVALUATION:**

based on minimum parameters







**NEED FOR PRESERVATION** yes





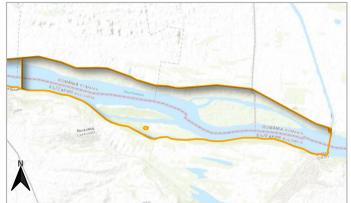


## **Danube Floodplain**

## BG\_RO\_DU\_AFP02 Danube

RO:Dabuleni area; BG:Leskovet - Ostrov area

Boundary of active floodplain with Restoration demand





Country: Bulgaria / Romania

active floodplain

32.3 km<sup>2</sup>

Centroid: 43.716°N 24.069°E

Type:

River kilometre: 677 - 661

Floodplain length:

15.6 km

Floodplain

area:

HQ<sub>100</sub>: nodata

**FEM PARAMETER:** Minimum Parameter Set:

http://www.geo.u-szeged.hu/images/DFGIS/BG\_RO\_DU\_AFP02.pdf

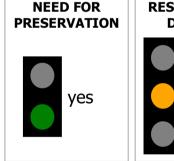
Download floodplain object (ESRI Shape) http://www.geo.u-szeged.hu/images/DFGIS/BG\_RO\_AFP.zip

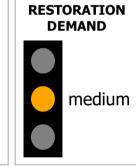
Download detailed report (PDF)

5 km

## **FEM-EVALUATION:**

based on minimum parameters



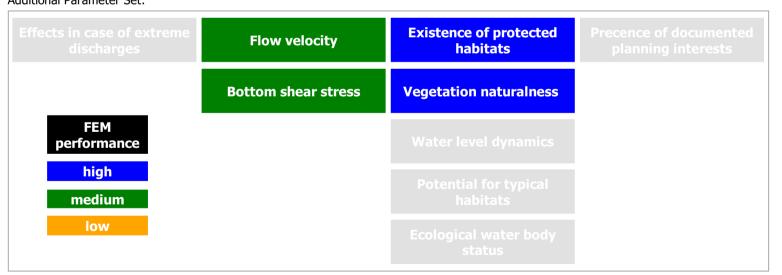


RO



## **Hydrology Hydraulics Ecology Socio-Economics** Connectivity of floodplain **Potentially affected Peak reduction** Water level change water bodies **buildings Existence of protected** Flood wave translation Land use species

## Additional Parameter Set:



## **Danube Floodplain**

## **BG\_RO\_DU\_AFP03** Danube

RO: upstream from Corabia; BG: Baikal -Ghighen area



Country: Bulgaria / Romania

Centroid: 43.736°N 24.433°E

Type:

active floodplain

29.3 km<sup>2</sup>

River kilometre: 646 - 630

Floodplain length:

15.4 km

Floodplain area:

HQ<sub>100</sub>: nodata

## **FEM PARAMETER:**

Download detailed report (PDF) http://www.geo.u-szeged.hu/images/DFGIS/BG\_RO\_DU\_AFP03.pdf Minimum Parameter Set:

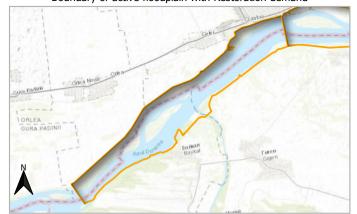


species

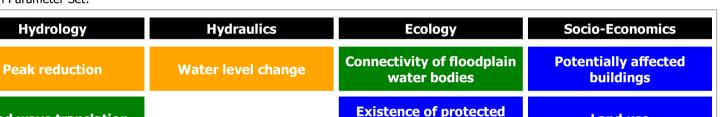
Download floodplain object (ESRI Shape) http://www.geo.u-szeged.hu/images/DFGIS/BG\_RO\_AFP.zip

Land use

Boundary of active floodplain with Restoration demand

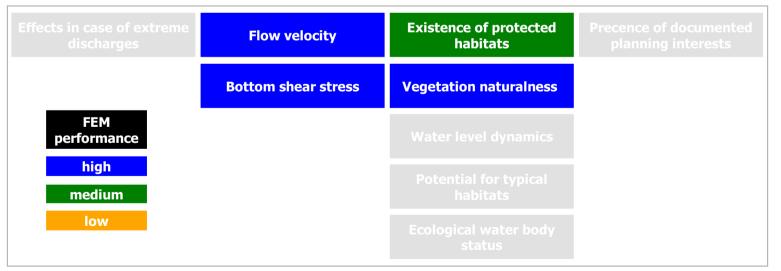


6 km



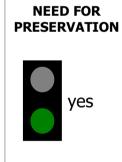
## Additional Parameter Set:

Flood wave translation



## **FEM-EVALUATION:**

based on minimum parameters









## **Danube Floodplain**

## BG\_RO\_DU\_AFP04

Danube

RO: downstream from Corabia-Islaz area;

BG: Zagrajden-Somovit area



Country: Bulgaria / Romania Centroid: 43.725°N 24.697°E

active floodplain Type:

River kilometre: 630 - 600.3

Floodplain length:

30.9 km

Floodplain

area:

81.6 km<sup>2</sup> HQ<sub>100</sub>: nodata

Download floodplain object (ESRI Shape) http://www.geo.u-szeged.hu/images/DFGIS/BG\_RO\_AFP.zip Boundary of active floodplain with Restoration demand



10 km

medium

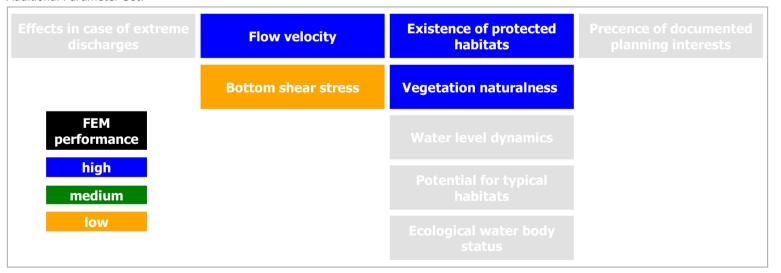
## **FEM PARAMETER:**

Minimum Parameter Set:

Download detailed report (PDF) http://www.geo.u-szeged.hu/images/DFGIS/BG\_RO\_DU\_AFP04.pdf

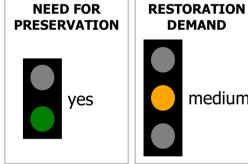
## **Hydrology Hydraulics Ecology Socio-Economics** Connectivity of floodplain **Potentially affected** Water level change **Peak reduction** water bodies **buildings Existence of protected** Flood wave translation Land use species

## Additional Parameter Set:



## **FEM-EVALUATION:**

based on minimum parameters







## **Danube Floodplain**

## **BG\_RO\_DU\_AFP05** RO: Giurgiu area; BG: Marten area

## Danube



Country: Bulgaria / Romania Centroid: 43.911°N 26.033°E

active floodplain Type:

River kilometre: 490 - 479.5

Floodplain length:

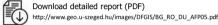
10.3 km

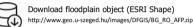
Floodplain 25.3 km<sup>2</sup> area:

HQ<sub>100</sub>: nodata

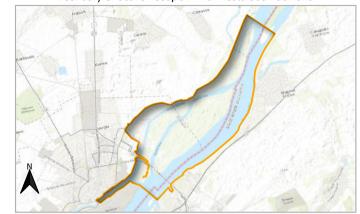
## **FEM PARAMETER:**

Minimum Parameter Set:





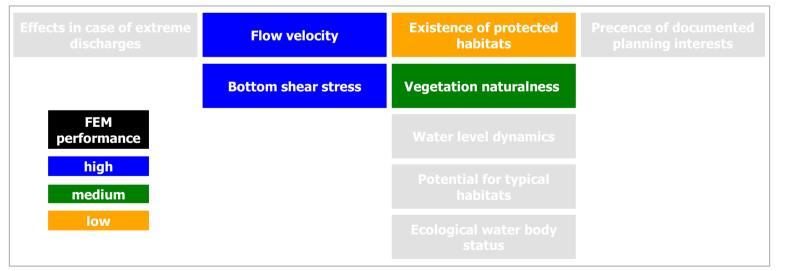
Boundary of active floodplain with Restoration demand



5 km

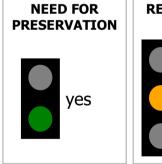
## **Hydrology Hydraulics Ecology Socio-Economics** Connectivity of floodplain **Potentially affected** Water level change **Peak reduction** water bodies **buildings Existence of protected** Flood wave translation Land use species

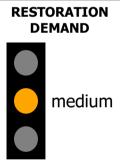
## Additional Parameter Set:



## **FEM-EVALUATION:**

based on minimum parameters









## **Danube Floodplain**

## BG\_RO\_DU\_AFP06 Danube

RO: Chiselet-Dorobantu area; BG: Popina area

Boundary of active floodplain with Restoration demand



Country: Bulgaria / Romania Centroid: 44.136°N 26.93°E

active floodplain Type:

River kilometre: 412 - 395.5

Floodplain length:

14.9 km

Floodplain

area:

33.6 km<sup>2</sup> HQ<sub>100</sub>: nodata



**FEM PARAMETER:** 

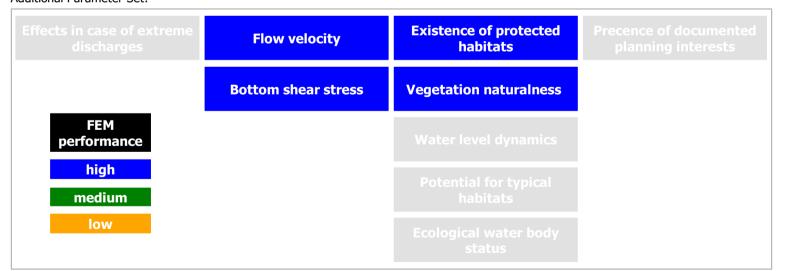
Minimum Parameter Set:

Download detailed report (PDF) http://www.geo.u-szeged.hu/images/DFGIS/BG\_RO\_DU\_AFP06.pdf Download floodplain object (ESRI Shape) http://www.geo.u-szeged.hu/images/DFGIS/BG\_RO\_AFP.zip

5 km

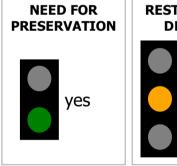
## **Hydrology Hydraulics Ecology Socio-Economics** Connectivity of floodplain **Potentially affected** Water level change **Peak reduction** water bodies **buildings Existence of protected** Flood wave translation Land use species

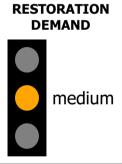
## Additional Parameter Set:



## **FEM-EVALUATION:**

based on minimum parameters









## **Danube Floodplain**

## RO\_DU\_AFP01 Danube

## Calarasi area

## Boundary of active floodplain with Restoration demand



Country: Romania

Centroid: 44.125°N 27.37°E

active floodplain Type:

River kilometre: 375 - 356

Floodplain length:

17.7 km

Floodplain 50.3 km<sup>2</sup> area:

HQ<sub>100</sub>: nodata

**FEM PARAMETER:** 

Download detailed report (PDF) http://www.geo.u-szeged.hu/images/DFGIS/RO\_DU\_AFP01.pdf

Water level change

Download floodplain object (ESRI Shape) http://www.geo.u-szeged.hu/images/DFGIS/RO\_DU\_AFP.zip

Minimum Parameter Set:

**Hydrology** 

**Peak reduction** 

Flood wave translation

**Hydraulics** 

**Connectivity of floodplain** water bodies

**Existence of protected** species

**Ecology** 

**Potentially affected buildings** 

**Socio-Economics** 

Land use

Additional Parameter Set:

FEM performance

high

medium low

Flow velocity

**Existence of protected** habitats

**Bottom shear stress** 

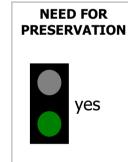
**Vegetation naturalness** 

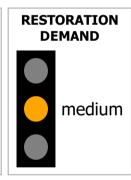
**Danube Floodplain** 

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

## **FEM-EVALUATION:**

based on minimum parameters





6 km





## RO\_DU\_AFP02 Danube

## Oltina - Rasova area

Boundary of active floodplain with Restoration demand



Country: Romania

Centroid: 44.226°N 27.714°E

Type:

River kilometre: **345 - 313.5** 

Floodplain length: **31.2 km** 

Floodplain

**79.4 km²** HQ<sub>100</sub>:

area:

HQ<sub>100</sub>: **nodata** 

# Constitution of the state of th

10 km

## **FEM PARAMETER:**

Minimum Parameter Set:

Download detailed report (PDF)
http://www.geo.u-szeged.hu/images/DFGIS/RO\_DU\_AFP02.pdf

active floodplain

Download floodplain object (ESRI Shape)
http://www.geo.u-szeged.hu/images/DFGIS/RO\_DU\_AFP.zip

Hydrology Hydraulics Ecology Socio-Economics

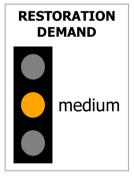
Peak reduction Water level change Connectivity of floodplain water bodies Potentially affected buildings

Existence of protected species Land use

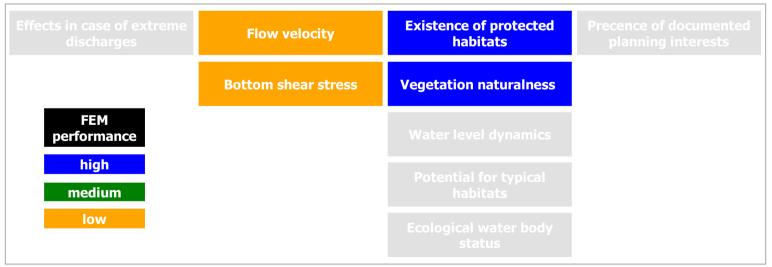
## **FEM-EVALUATION:**

based on minimum parameters





## Additional Parameter Set:





## Danube Transnational Programme Danube Floodplain

## **Danube Floodplain**

## RO\_DU\_AFP03 Danube

## Rasova - Cernavoda - Harsova area

Boundary of active floodplain with Restoration demand



Country: Romania

Centroid: 44.475°N 28.031°E

Type:

active floodplain River kilometre: 313.5 - 252.5

Floodplain length:

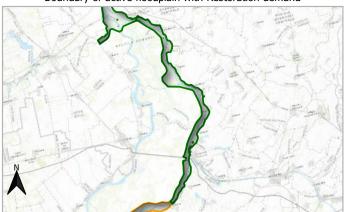
58.6 km

Floodplain area: 93.6 km<sup>2</sup>

 $HQ_{100}$ : nodata

2 Download flo

Download floodplain object (ESRI Shape)
http://www.geo.u-szeged.hu/images/DFGIS/RO\_DU\_AFP.zip



29 km

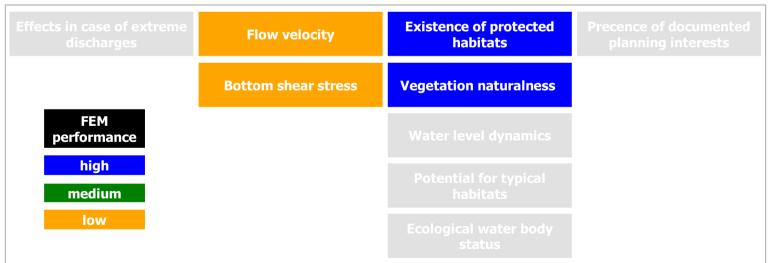
## **FEM PARAMETER:**

Minimum Parameter Set:

Download detailed report (PDF)
http://www.geo.u-szeged.hu/images/DFGIS/RO\_DU\_AFP03.pdf

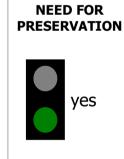
## HydrologyHydraulicsEcologySocio-EconomicsPeak reductionWater level changeConnectivity of floodplain water bodiesPotentially affected buildingsFlood wave translationExistence of protected speciesLand use

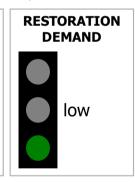
## Additional Parameter Set:



## **FEM-EVALUATION:**

based on minimum parameters







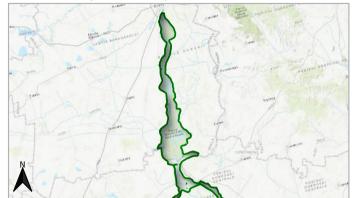


## **Danube Floodplain**

## RO\_DU\_AFP04 Danube

## Harsova - Braila area

Boundary of active floodplain with Restoration demand



Country: Romania

Centroid: 44.901°N 27.903°E

Type:

River kilometre: 252.5 - 172

Floodplain 77.9 km length:

Floodplain

298.8 km<sup>2</sup> HQ<sub>100</sub>:

area:

nodata

## **FEM PARAMETER:**

Minimum Parameter Set:

Download detailed report (PDF) http://www.geo.u-szeged.hu/images/DFGIS/RO\_DU\_AFP04.pdf

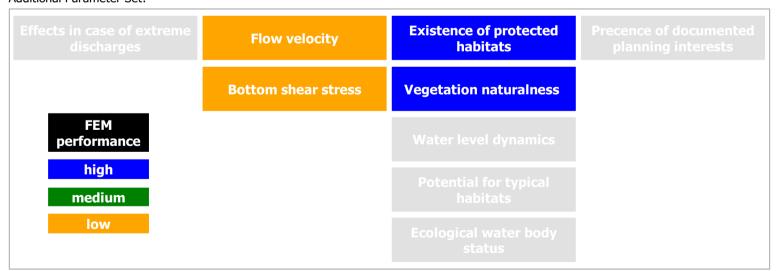
active floodplain

species

Download floodplain object (ESRI Shape) http://www.geo.u-szeged.hu/images/DFGIS/RO\_DU\_AFP.zip

**Hydrology Hydraulics Ecology Socio-Economics Connectivity of floodplain Potentially affected** Water level change **Peak reduction** water bodies **buildings Existence of protected** Flood wave translation Land use

## Additional Parameter Set:

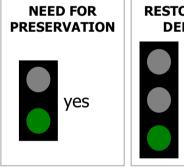


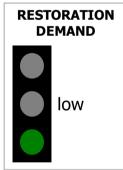
## **Danube Floodplain**

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

## **FEM-EVALUATION:**

based on minimum parameters





40 km





## **DE\_DU\_PFP01**Danube

## Oberelchingen - Lech

Country: Germany

Centroid: 48.601°N 10.587°E

Type:

potential floodplain

River kilometre: **nodata** 

Floodplain length:

nodata

Floodplain

area:

167 km<sup>2</sup>

 $HQ_{100}$ : **1250 m³/s** 

Download floodplain object (ESRI Shape)

http://www.geo.u-szeged.hu/images/DFGIS/DE\_DU\_PFP.zip

Management of the property of

20 km

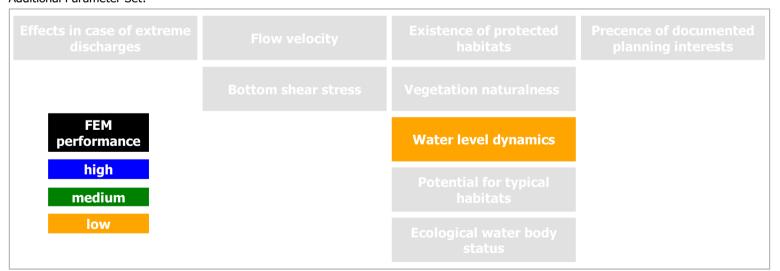
## **FEM PARAMETER:**

Minimum Parameter Set:

Download detailed report (PDF)
http://www.geo.u-szeged.hu/images/DFGIS/DE\_DU\_PFP01.pdf

## Hydrology Hydraulics Ecology Socio-Economics Peak reduction Water level change Connectivity of floodplain water bodies Potentially affected buildings Flood wave translation Existence of protected species Land use

## Additional Parameter Set:



## **Danube Floodplain**

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

## **FEM-EVALUATION:**







## Lech - Neuburg

## Danube

Country: **Germany** 

area:

Centroid: 48.731°N 11.027°E

Type:

potential floodplain

37.4 km<sup>2</sup>

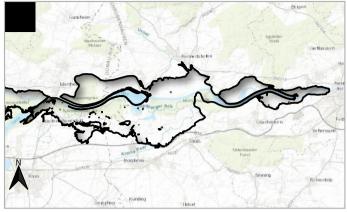
River kilometre: nodata

Floodplain length:

Floodplain nodata

HQ<sub>100</sub>:

2100 m<sup>3</sup>/s



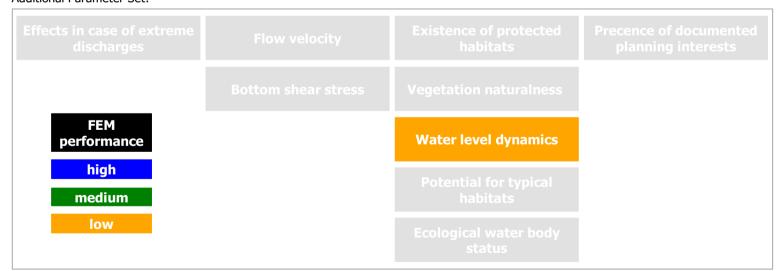
**FEM PARAMETER:** Minimum Parameter Set:

Download detailed report (PDF) http://www.geo.u-szeged.hu/images/DFGIS/DE\_DU\_PFP02.pdf Download floodplain object (ESRI Shape) http://www.geo.u-szeged.hu/images/DFGIS/DE\_DU\_PFP.zip

6 km

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

## Additional Parameter Set:



## **FEM-EVALUATION:**

based on minimum parameters







## **Danube Floodplain**

## Großmehring

Danube

Country: **Germany** 

Centroid: 48.746°N 11.516°E

Type:

potential floodplain

River kilometre: nodata

Floodplain length:

Floodplain nodata area:

4.9 km<sup>2</sup>

2100 m<sup>3</sup>/s HQ<sub>100</sub>:



1.8 km

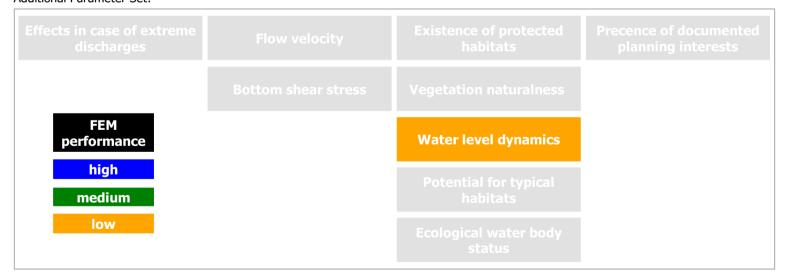
**FEM PARAMETER:** Minimum Parameter Set:

Download detailed report (PDF) http://www.geo.u-szeged.hu/images/DFGIS/DE\_DU\_PFP03.pdf

Download floodplain object (ESRI Shape) http://www.geo.u-szeged.hu/images/DFGIS/DE\_DU\_PFP.zip

**Hydraulics Socio-Economics Hydrology Ecology Potentially affected** Connectivity of floodplain **Peak reduction** Water level change water bodies **buildings Existence of protected** Flood wave translation Land use species

## Additional Parameter Set:



## **FEM-EVALUATION:**

based on minimum parameters







## **Danube Floodplain**

## Katzau

## Danube

Country: Germany

Centroid: 48.781°N 11.675°E

Type:

potential floodplain

River kilometre: **nodata** 

Floodplain length:

nodata

Floodplain

area:

3.1 km<sup>2</sup>

 $HQ_{100}$ : 2100 m<sup>3</sup>/s

F3

Download floodplain object (ESRI Shape)
http://www.geo.u-szeged.hu/images/DFGIS/DE\_DU\_PFP.zip

Wickenstell

Wickenstell

And State - State -

1.3 km

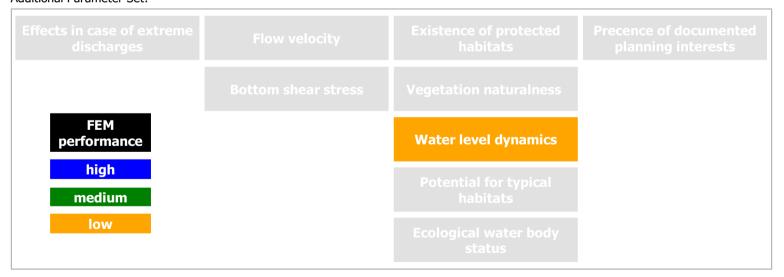
## **FEM PARAMETER:**

Minimum Parameter Set:

Download detailed report (PDF)
http://www.geo.u-szeged.hu/images/DFGIS/DE\_DU\_PFP04.pdf

## Hydrology Hydraulics Ecology Socio-Economics Peak reduction Water level change Connectivity of floodplain water bodies Potentially affected buildings Flood wave translation Existence of protected species Land use

## Additional Parameter Set:



## **Danube Floodplain**

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

## **FEM-EVALUATION:**







## Geisling/Gmünd

Danube

Country: **Germany** 

Centroid: 48.979°N 12.391°E

Type:

potential floodplain

River kilometre: nodata

Floodplain length:

Floodplain nodata

25 km<sup>2</sup> area:

Water level change

 $HQ_{100}$ : 3400 m<sup>3</sup>/s

**FEM PARAMETER:** 

Download detailed report (PDF) http://www.geo.u-szeged.hu/images/DFGIS/DE\_DU\_PFP05.pdf Minimum Parameter Set:

Download floodplain object (ESRI Shape) http://www.geo.u-szeged.hu/images/DFGIS/DE\_DU\_PFP.zip

5 km

**Hydrology** 

**Hydraulics** 

**Socio-Economics Ecology** 

Flood wave translation

**Peak reduction** 

**Existence of protected** species

Connectivity of floodplain

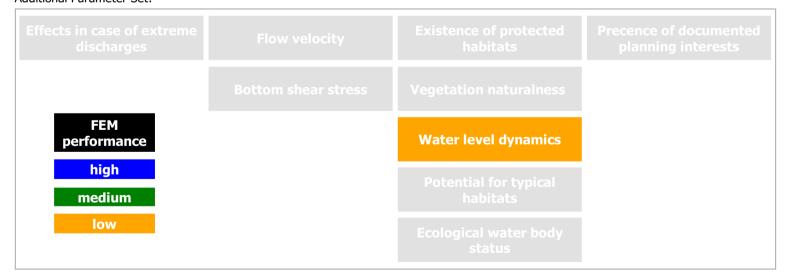
water bodies

Land use

**Potentially affected** 

buildings

Additional Parameter Set:



## **FEM-EVALUATION:**

based on minimum parameters







## **Danube Floodplain**

## AT\_DU\_PFP01 Danube

## Krems - Wien

Country: Austria

Centroid: 48.362°N 16.019°E

Type:

potential floodplain Rive

River kilometre: **1999.5 - 1938** 

Floodplain length:

60 km

Floodplain area: 160.7 km<sup>2</sup>

 $HQ_{100}$ : **11200 m<sup>3</sup>/s** 

## Special Section Sectio

19 km

## **FEM PARAMETER:**

Minimum Parameter Set:

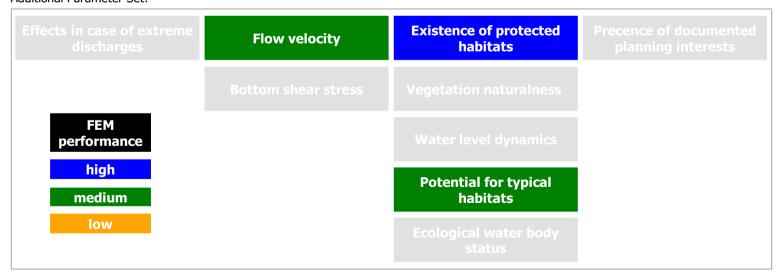
Download detailed report (PDF)

http://www.geo.u-szeged.hu/images/DFGIS/AT\_DU\_PFP01.pdf

Download floodplain object (ESRI Shape)
http://www.geo.u-szeged.hu/images/DFGIS/AT\_DU\_PFP.zip

## HydrologyHydraulicsEcologySocio-EconomicsPeak reductionWater level changeConnectivity of floodplain water bodiesPotentially affected buildingsFlood wave translationExistence of protected speciesLand use

## Additional Parameter Set:



## **FEM-EVALUATION:**

based on minimum parameters







## **Danube Floodplain**

## AT\_DU\_PFP02

Wien - Devin

Danube

Country: Austria

Centroid: 48.143°N 16.757°E

Type:

potential floodplain

River kilometre: **1918 - 1880** 

Floodplain length:

37.8 km

Floodplain

area:

121.4 km<sup>2</sup> HQ<sub>100</sub>: 10400 m<sup>3</sup>/s

Download floodplain object (ESRI Shape)
http://www.geo.u-szeged.hu/images/DFGIS/AT\_DU\_PFP.zip

Millians Alberta Alber

13 km

## **FEM PARAMETER:**

Minimum Parameter Set:

	Download detailed report (PDF)				
$\exists (\downarrow)$	Download detailed report (PDF) http://www.geo.u-szeged.hu/images/DFGIS/AT_DU_PFP02.pd				

## HydrologyHydraulicsEcologySocio-EconomicsPeak reductionWater level changeConnectivity of floodplain water bodiesPotentially affected buildingsFlood wave translationExistence of protected speciesLand use

## Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Precence of documented planning interests
FEM performance			
high medium		Potential for typical habitats	
low		Ecological water body status	

## **Danube Floodplain**

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

## **FEM-EVALUATION:**







## HU\_DU\_PFP01

## Szigetköz

Danube

Country: Hungary

Centroid: 47.88°N 17.487°E

Type:

potential floodplain

River kilometre: **1851.8 - 1797** 

Floodplain length:

54.8 km

Floodplain

area:

157.1 km<sup>2</sup>

 $HQ_{100}$ : **10425 m³/s** 

Dow http:/

Download floodplain object (ESRI Shape)
http://www.geo.u-szeged.hu/images/DFGIS/HU\_DU\_PFP.zip

Princesous party Const.

Princesous party Cons

16 km

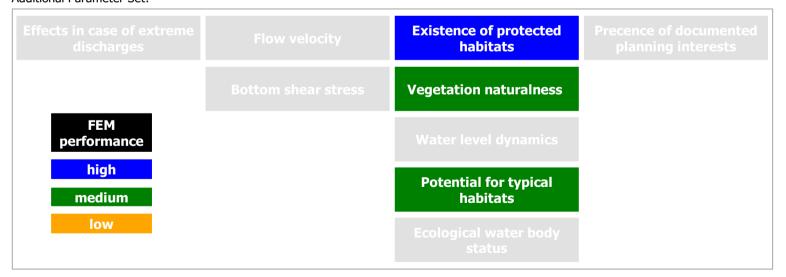
## **FEM PARAMETER:**

Minimum Parameter Set:

Download detailed report (PDF)
http://www.geo.u-szeged.hu/images/DFGIS/HU\_DU\_PFP01.pdf

## Hydrology Hydraulics Ecology Socio-Economics Peak reduction Water level change Connectivity of floodplain water bodies Potentially affected buildings Existence of protected species Land use

## Additional Parameter Set:



## **Danube Floodplain**

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

## **FEM-EVALUATION:**







## **HU\_DU\_PFP02**

## **Paks**

## Danube

Country: **Hungary** 

Centroid: 46.601°N 18.883°E

Type:

potential floodplain River kilometre: 1535.8 - 1520.7

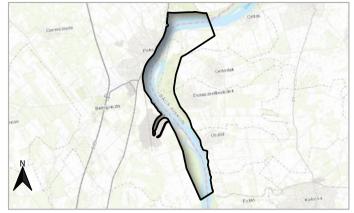
Floodplain length:

15.1 km

Floodplain

area:

HQ<sub>100</sub>: **8865 m³/s** 



7 km

## **FEM PARAMETER:**

Minimum Parameter Set:

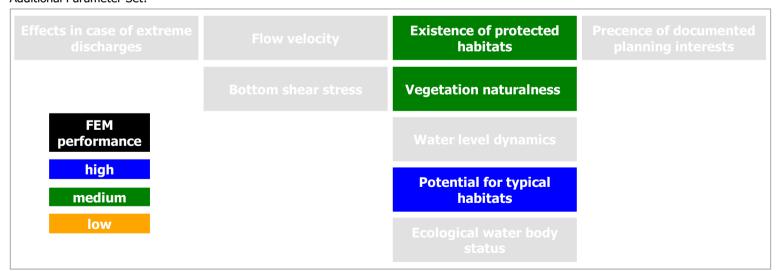
Download detailed report (PDF) http://www.geo.u-szeged.hu/images/DFGIS/HU\_DU\_PFP02.pdf

22.1 km<sup>2</sup>

Download floodplain object (ESRI Shape) http://www.geo.u-szeged.hu/images/DFGIS/HU\_DU\_PFP.zip

## **Hydrology Hydraulics Ecology Socio-Economics Connectivity of floodplain Potentially affected Peak reduction** Water level change water bodies **buildings Existence of protected** Flood wave translation Land use species

## Additional Parameter Set:



## **FEM-EVALUATION:**

based on minimum parameters







## **Danube Floodplain**