Danube River Basin District Overview

LEGEND

- *Danube River Basin District (DRBD)*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *Competent authority*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 50 100 200 km

N W E S

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

www.icpdr.org

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

Annual Average Precipitation

LEGEND

Annual average precipitation (mm)

*for the period 1960 - 1990 **

- *300 - 400*
- *400 - 500*
- *500 - 600*
- *600 - 700*
- *700 - 800*
- *800 - 900*
- *900 - 1,100*
- *1,100 - 1,400*
- *1,400 - 2,000*
- *2,000 - 3,000*

- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 50 100 200 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

* *Precipitation values depicted in this product, originate from the "WorldClim" interpolated climate data, for the 1960 - 90 period; compiled by the Global Historical Climatology Network (GHCN), the FAO, the WMO et al.*

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

www.icpdr.org

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Annual Average Temperature

LEGEND

*Annual average temperature (°C) for the period 1960 - 1990 **

- -8 - -4
- -4 - -2
- -2 - 0
- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 10
- 10 - 12

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

** Temperature values depicted in this product, originate from the "WorldClim" interpolated climate data, for the 1960 - 90 period; compiled by the Global Historical Climatology Network (GHCN), the FAO, the WMO et al.*

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Land Cover

LEGEND

*Corine Land Cover (CLC) classes **

- *Artificial surfaces*
- *Arable lands and permanent crops*
- *Pastures and heterogeneous agricultural areas*
- *Forest and transitional woodland shrub*
- *Scrub and open spaces with little or no vegetation*
- *Wetlands*
- *Water bodies*

- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 50 100 200 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

** This map shows the Corine Land cover data (CLC2006) for all of the ICPDR countries except for Ukraine and Moldova, which are covered by the Global Land Cover 2000 (GLC2000) data set. Both land cover datasets were obtained from the European Environment Agency (EEA).*

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

www.icpdr.org

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Ecoregions

www.icpdr.org

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

Delineated Surface Water Bodies

LEGEND

- *Nodes of water bodies*
- *Nodes of transboundary water bodies*
- *Nodes of tributary water bodies at confluences or bifurcations*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

(Scale 1: 6,000,000 in A4 landscape paper format)

The data for UA is taken from DRBMP 2009.

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Transboundary Groundwater Bodies of Basin-Wide Importance

LEGEND

Transboundary Groundwater Bodies of Basin-Wide Importance

Overlap of Groundwater Bodies

(1) *ICPDR Code for Transboundary Groundwater Bodies*

Monitoring stations density in color classes

- *< 50 km² / station*
- *50 - 200 km² / station*
- *> 200 km² / station*
- *No data*

(Scale 1: 6,000,000 in A4 landscape paper format)

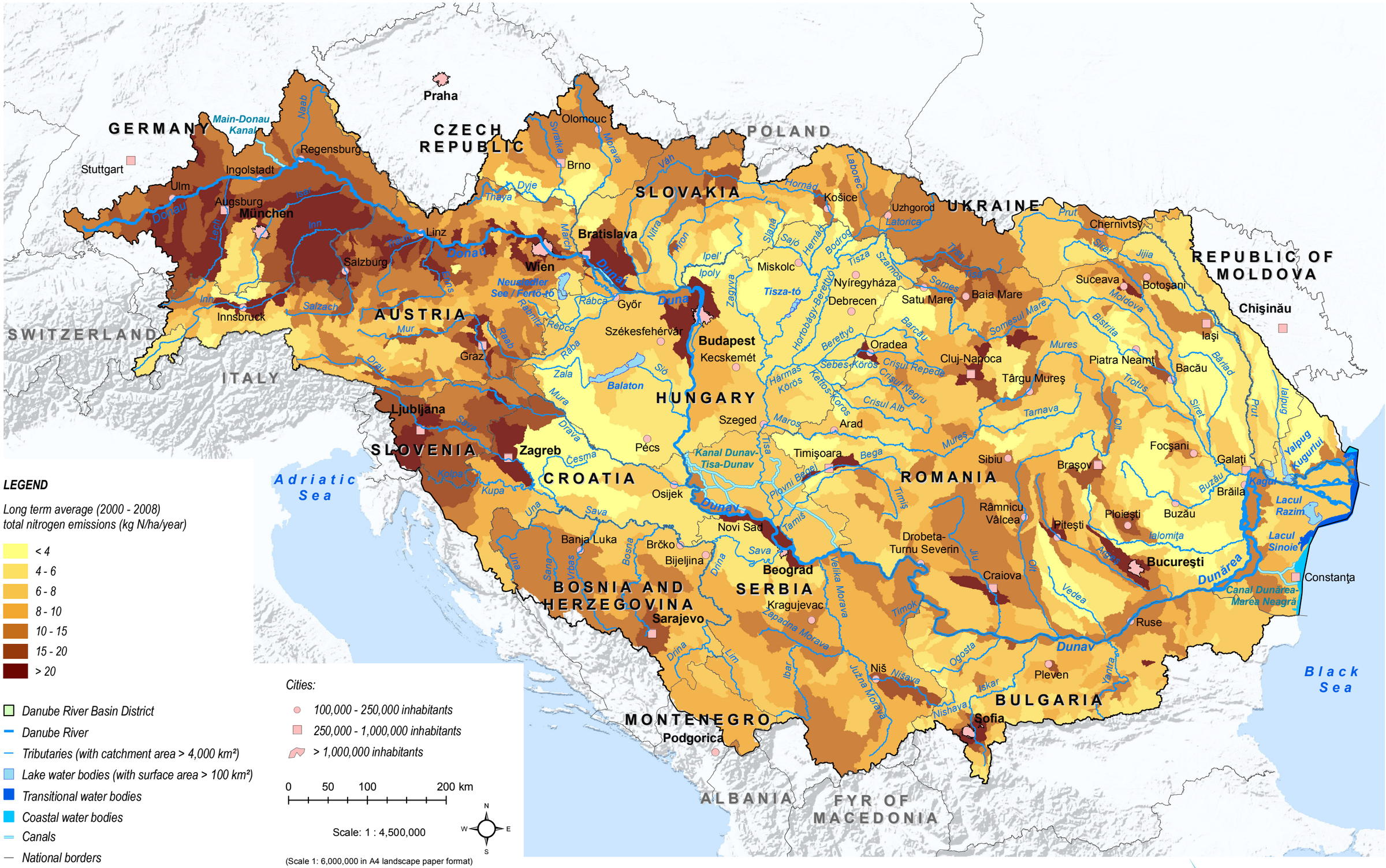
www.icpdr.org

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Nutrient Pollution from Point and Diffuse Sources - Nitrogen



LEGEND

Long term average (2000 - 2008)
total nitrogen emissions (kg N/ha/year)

- *< 4*
- *4 - 6*
- *6 - 8*
- *8 - 10*
- *10 - 15*
- *15 - 20*
- *> 20*

- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 50 100 200 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

This map illustrates nitrogen emissions entering the surface water bodies from catchment areas. The emissions were calculated according to long-term average hydrological conditions over the period of 2000-2008, using the most recent available data within the same period. Calculation was implemented using the MONERIS model (Venohr et al., 2011).

www.icpdr.org

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Nutrient Pollution from Point and Diffuse Sources - Phosphorus

LEGEND

Long term average (2000 - 2008) area-specific total phosphorus emissions (g P/ha/year)

- *< 200*
- *200 - 300*
- *300 - 500*
- *500 - 750*
- *750 - 1,000*
- *1,000 - 5,000*
- *> 5,000*

- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 50 100 200 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

This map illustrates phosphorus emissions entering the surface water bodies from catchment areas. The emissions were calculated according to long-term average hydrological conditions over the period of 2000-2008, using the most recent available data within the same period. Calculation was implemented using the MONERIS model (Venohr et al., 2011).

www.icpdr.org

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Alterations of River Continuity for Fish Migration

LEGEND

*Barriers**
(water level difference)

Small (<5 m)	*Medium (5-15 m)*	*Large (>15 m)*	*Main usage*
◒	◒	◒	*Flood protection*
△	△	△	*Hydro power*
⊙	⊙	⊙	*Water supply*
▽	▽		*Navigation*
□	□	□	*Erosion control and other*

- *Passable for fish by 2015*
- *Not passable, but GES/GEP achieved*
- *Not passable for fish by 2015*
- *Not applicable (outside of fish area)*
- *Unknown or yet to be determined*

- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 50 100 200 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

** The barriers are related to different water uses. More detailed information is available in the chapter 4 of the DBA 2013. The data for BG and MD is taken from DRBMP 2009.*

www.icpdr.org

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Morphological Alterations

LEGEND

Morphological Condition of River Water Bodies

- *1 - 2*
- *1*
- *no data available*
- *3*
- *2 - 5*
- *4 - 5*

1 - Near natural; 2 - Slightly altered; 3 - Moderately altered; 4 - Extensively altered; 5 - Severely altered

- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 50 100 200 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

This map illustrates full water bodies which are affected by morpho;ogical alterations. The exact locations of individual water body alterations are not visualised. The data for BA, BG, MD, ME and UA is taken from DRBMP 2009.

www.icpdr.org

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Wetlands/Floodplains with Reconnection Potential

LEGEND

Wetlands/floodplains (> 500 ha)

- *Totally reconnected by 2015*
- *Partially reconnected by 2015*
- *With reconnection potential*

- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 50 100 200 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

The data for MD and UA is taken from DRBMP 2009.

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Hydrological Alterations - Impoundments

LEGEND

*Water Bodies Affected by Impoundments **

- *Restoration measures fully implemented by 2015*
- *Restoration measures not necessary - GES/GEP achieved*
- *Restoration measures partially implemented by 2015*
- *Restoration measures not yet implemented*

- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 50 100 200 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

** This map illustrates full water bodies which are affected by impoundments. The exact locations of individual impoundments are not visualised. Data for BA, BG, MD, ME and UA was not available.*

www.icpdr.org

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Hydrological Alterations - Water Abstractions

LEGEND

*Water Bodies Affected by Significant Water Abstractions **

- *Restoration measures fully implemented by 2015*
- *Restoration measures not necessary*
- *Restoration measures partially implemented by 2015*
- *Restoration measures not yet implemented*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

(Scale 1: 6,000,000 in A4 landscape paper format)

** Flow below the dam <50% of the mean annual minimum flow in a specific time period (comparable with Q95). Map illustrates the full water bodies which are affected by the water abstractions. The exact location of individual water abstractions is not visualised. Data for BA, BG, MD, ME, SI and UA was not available.*

www.icpdr.org

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Hydrological Alterations - Hydropeaking

LEGEND

*Water Bodies Affected by Hydropeaking **

- *Restoration measures fully implemented by 2015*
- *Restoration measures not necessary - GES/GEP achieved*
- *Restoration measures partially implemented by 2015*
- *Restoration measures not yet implemented*

- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 50 100 200 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

** Significant hydrological alterations with water level fluctuation >1m/day or known/observed negative effects on biology. This map illustrates full water bodies which are affected by hydropeaking.*
The exact locations of individual pressures from hydropeaking are not visualised. Data for BA, MD, ME, SI and UA was not available.

www.icpdr.org

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Future Infrastructure Projects

LEGEND

Future Infrastructure Projects

Spatial extent < 10 river km	*Spatial extent > 10 river km*
Navigation	*Navigation*
Hydropower	
Flood protection	*Flood protection*
Others	*Others*

Danube River Basin District
Danube River
Tributaries (with catchment area > 4,000 km²)
Lake water bodies (with surface area > 100 km²)
Transitional water bodies
Coastal water bodies
Canals
National borders

Cities:
100,000 - 250,000 inhabitants
250,000 - 1,000,000 inhabitants
> 1,000,000 inhabitants

0 50 100 200 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

Data for BA, MD, ME and SI was not available. The data for UA is taken from DRBMP 2009.

www.icpdr.org

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Site-specific Biological Contamination (SBC) index of Invasive Alien Species on JDS 3 sites

LEGEND

SBC Index of IAS on JDS 3 Sites

- *0 - 1*
- *2*
- *3*
- *4*

1-2 Number of section type

Border of section type

- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 30 60 120 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

N W E S

This map illustrates the relative abundance of the Invasive Alien Species sampled on the Joint Danube Survey 3 (JDS 3) sites.

www.icpdr.org

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Heavily Modified and Artificial Surface Water Bodies

LEGEND

- *Natural - Final Designation*
- *Natural - Provisional Designation (Non-EU Member States)*
- *Heavily Modified - Final Designation*
- *Heavily Modified - Provisional Designation (Non-EU Member States)*
- *Artificial*
- *No designation performed*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

- *Danube River Basin District*
- *National borders*

(Scale 1: 6,000,000 in A4 landscape paper format)

The designation of Heavily Modified Water Bodies of the Danube River is based on an agreed and harmonised designation procedure between the Danube countries (see DRBM Plan 2009 Chapter 4.1.4.1).

www.icpdr.org

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Transnational Monitoring Network - Surface Waters

LEGEND

Surface Water Body Monitoring Stations :

- *Operational Monitoring Stations (OM)*
- *Surveillance Monitoring Stations (SM1*)*
- *Surveillance Monitoring Stations (SM2**)*

- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 50 100 200 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

**Surveillance Monitoring 1 provides an assessment of the overall surface water status in the Danube River Basin District.*
***Surveillance Monitoring 2 provides an assessment of long-term trends of specific pollutants and of loads of substances transferred downstream the Danube.*
Data for MD and ME was not available.

www.icpdr.org

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Risk Assesment - Ecological Status of Surface Water Bodies

LEGEND

- *Ecological status - Not at risk*
- *Ecological status - At risk or possibly at risk*
- *Ecological status - Risk unknown (only applicable for non-EU countries)*
- *Danube River Basin District*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 50 100 200 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

Risk data for HU surface water bodies are preliminary.

www.icpdr.org

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Risk Assesment - Chemical Status of Surface Water Bodies by 2021

LEGEND

- *Chemical status - Not at risk*
- *Chemical status - At risk or possibly at risk*
- *Chemical status - Risk unknown (only applicable for non-EU countries)*
- *Danube River Basin District*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

(Scale 1: 6,000,000 in A4 landscape paper format)

Risk data for HU surface water bodies are preliminary.

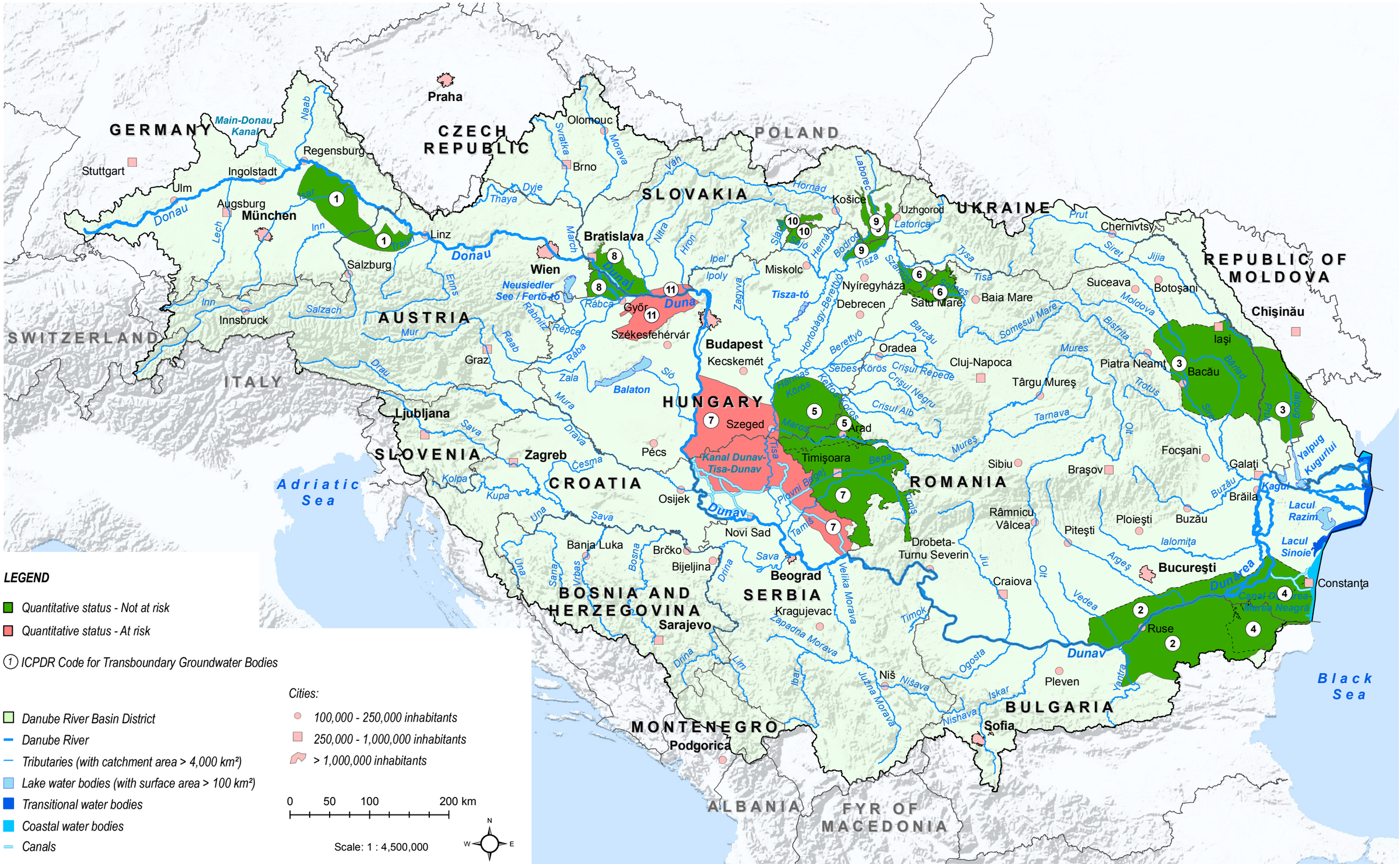
www.icpdr.org

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Risk Assessment - Quantitative Status of Groundwaters by 2021



LEGEND

- *Quantitative status - Not at risk*
- *Quantitative status - At risk*

(1) *ICPDR Code for Transboundary Groundwater Bodies*

- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 50 100 200 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

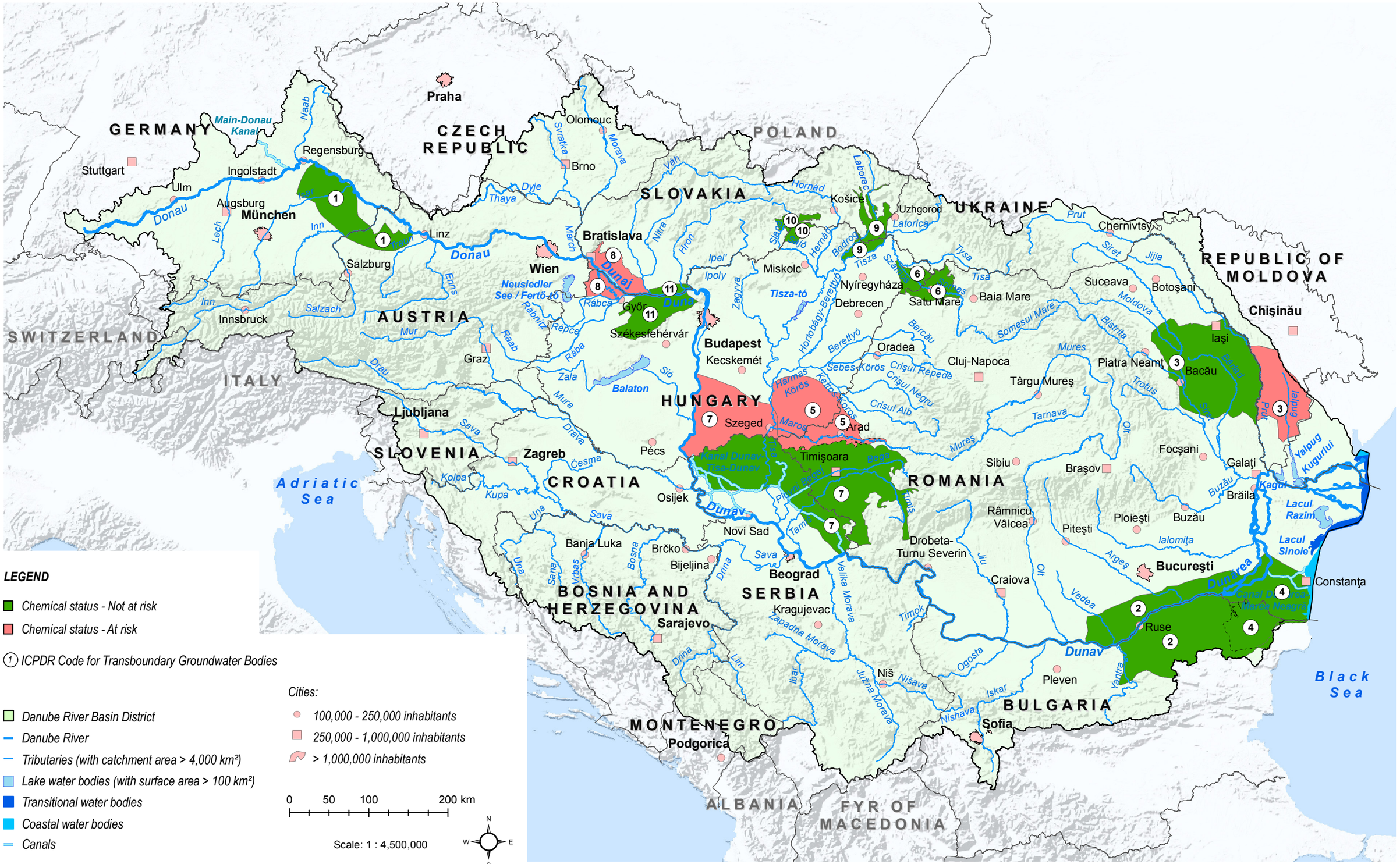
Risk data for HU groundwater bodies are preliminary.

www.icpdr.org

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Risk Assessment - Chemical Status of Groundwaters by 2021



LEGEND

- *Chemical status - Not at risk*
- *Chemical status - At risk*

(1) *ICPDR Code for Transboundary Groundwater Bodies*

- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

0 50 100 200 km

Scale: 1 : 4,500,000

(Scale 1: 6,000,000 in A4 landscape paper format)

Risk data for HU groundwater bodies are preliminary.

www.icpdr.org

This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH. EuroGlobalMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

Protected Areas

LEGEND

Water Relevant Protected Areas >500ha

- *EU Bird Directive*
- *EU Habitat Directive*
- *Other Protected Areas for Water-Dependent Species and Water-Related Habitats*
- *Danube River Basin District*
- *Danube River*
- *Tributaries (with catchment area > 4,000 km²)*
- *Lake water bodies (with surface area > 100 km²)*
- *Transitional water bodies*
- *Coastal water bodies*
- *Canals*
- *National borders*

Cities:

- *100,000 - 250,000 inhabitants*
- *250,000 - 1,000,000 inhabitants*
- *> 1,000,000 inhabitants*

(Scale 1: 6,000,000 in A4 landscape paper format)

Data on water relevant protected areas for DE, MD, SK and UA was taken from the DRBMP 2009; data for ME was not available.

www.icpdr.org

Vienna, October 2014

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau