





Outstanding Balkan River landscapes – a basis for wise development decisions

Croatia

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1. Hydromorphological intactness of rivers

There are four classes characterising the different levels of hydromorphological intactness: Class 1 shows in blue colour near-natural conditions). Class 2-3 is characterised by slightly to moderately modified status, indicated in light green. Class 4 for river stretches which are extensively altered are orange and class 5 (red) indicates stretches with severely modifications in particular impoundments. Lakes and rivers outside of the project areas are visualised in dark blue.

LEGEND					
Hydroi	Hydrom orphological assessment				
_	Class 1: Near-natural				
-	Class 2-3: Sligthly to moderatly modified				
-	Class 4: Extensively modified				
-	Class 5: Severely modified/ Impoundment				
	Poljes, floodplains, estuaries/deltas (no assessment)				
	Reservoirs mostly used for hydropower				
-8	Other rivers and lakes (no assessment)				
	State boundaries				
0	Major cities				

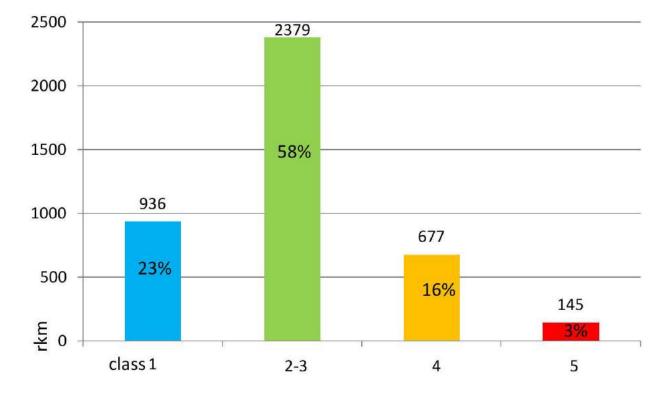
Fig. 1: Legend for the hydromorphological assessment map on next page



Fig. 2: Hydromorphological assessment for Croatia.

Croatia can be mainly subdivided in the northern Illyric and even Pannonian influenced part with Drava and Sava and the Karst and Mediterranean part in the south where the drainage network considerably decrease. The Drava river is modified just downstream of SI complementing the chain of hydropower plants in AT and SI. Further downstream the river still host valuable river stretches in particular in its middle course and upstream of Osijek, however peak power with daily changing water levels and regular sediment extraction (and retention of gravel in the chain of dams further upstream) leading to channel incision impacting the river as typical for most of the major Balkan rivers. The Sava hosts some of the largest floodplains in the Danube basin and some stretches with the typical meander morphology still exist.

The karst influenced rivers are much larger and significant than in SI, aside of the famous world heritage site of Plitvice or the Krka waterfalls, several canyons (as such of lower Cetina) fall in the near-natural class of the hydromorphological assessment but are partially interrupted by hydropower facilities (dams, tunnels for hydropower, diversions).



Only rivers of the Sava plain and close to the capital Zagreb are altered significantly by river regulation and technical flood defences.

Fig. 3: Hydromorphological assessment in rkm and percentage for Croatia.

2. Protected areas, karst poljes, estuaries/deltas and important floodplains

The inventory of protected areas contains in particular Natura2000 for EU Member States (EC 2010) and Croatia (State Institute for Nature protection Croatia 2010), national parks, biosphere reserves, nature reserves, EMERALD network areas (as far as available) and Important Bird Areas as well as Ramsar sites for other countries.

Major important floodplains were used continuously, meaning for the large rivers such as Danube, Drava and Sava they are subdivided in upper, middle and lower parts. In addition the map includes all assessed karst poljes, estuaries/deltas as well as other wetlands.

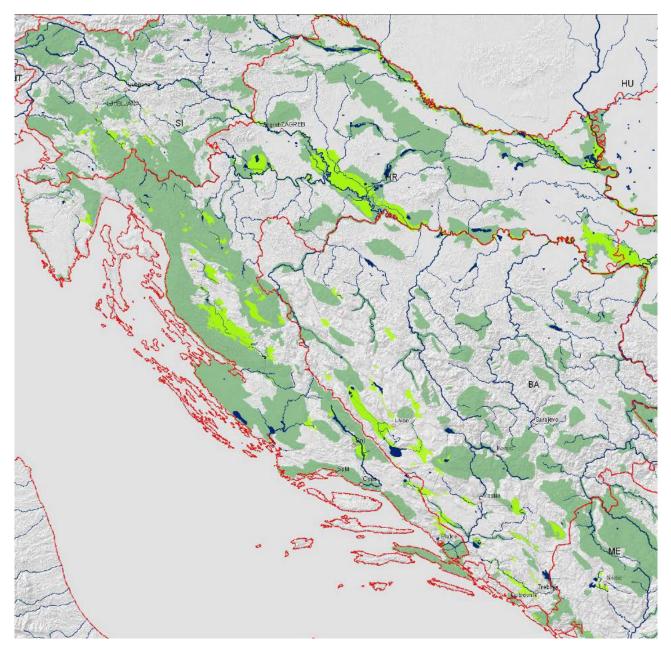


Fig. 4: Protected areas (incl. planned and proposed areas) in dark green (light green are poljes and large floodplain areas)

3. Conservation value of rivers

The conservation value is assessed in three levels: Very high conservation value (in blue), high conservation value (in dark green) and low conservation value (in light green). Karst poljes, major floodplains as well as deltas and estuaries with very high conservation value are visualized in dark blue-green and high conservation value in light green and low in light turquoise. Karst poljes and deltas are from particular interest for nature protection, therefore nearly all fall in the first two conservation classes.

	Hydro- morphological assessment class	Conservation value (assessment as result of overlay of hydromorphological assessment + protected areas + floodplains)
Class 1	Near-natural	Very high
Class 2-3	Slightly to moderately modified	High (river stretches crossing important floodplains/poljes/estuaries/deltas or overlapping with protected areas or both belonging to the "Very high" conservation value stretches)
Class 4	Extensively modified	Low, but important for longitudinal continuum (river stretches crossing important floodplains/poljes/estuaries/deltas or overlapping with protected areas or both belonging to the "High" conservation value stretches)
Class 5 Impoundments	Severely modified	Not assessed

Fig. 5: Definition of conservation value

LEGEND

Conservation value for rivers (left) and poljes, estuaries/deltas and floodplains (rigth)

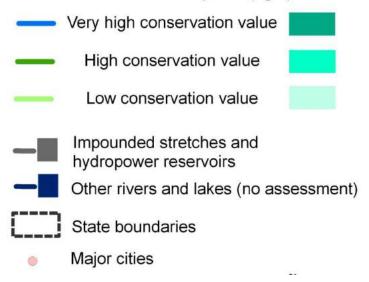


Fig. 6: Legend for the map on conservation value on next page

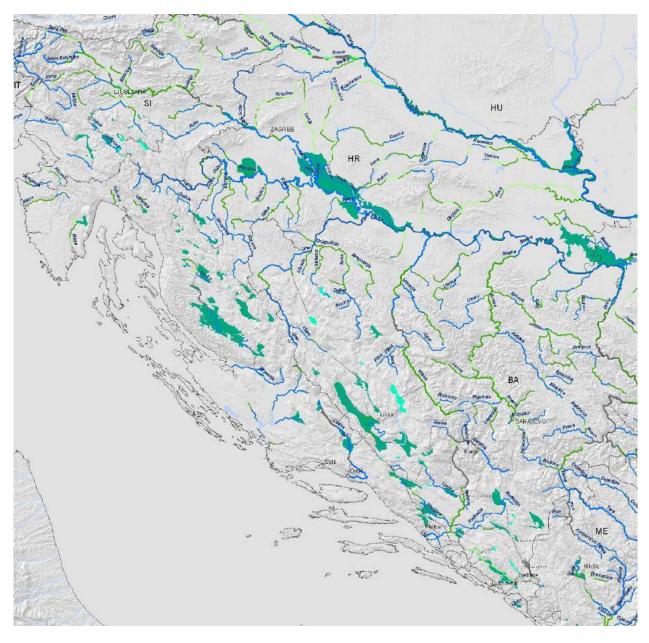


Fig. 7: Conservation value for HR.

The figure 40 indicates the outstanding position of Croatia regarding high conservation values: Over 60% of the river stretches fall in the first category.

Croatia has already a preliminary Natura2000 coverage protecting many river corridors and raising several river reaches into the very high conservation value class due to their protection status (in particular on major rivers such as Sava, Drava, Danube and Kupa). But Sava, lower Drava and lower Kupa as well as Danube have additionally major floodplains. Great examples for still intact floodplains are the Kopački Rit nature park on Danube and Lonjsko Polje nature park on Sava. But also many Mediterranean rivers with impressive canyons fall without doubt into the very high conservation class such as river stretches hosting the Plitvice and Krka waterfalls. Low conservation value tributary stretches can be find on smaller streams between Drava and Sava.

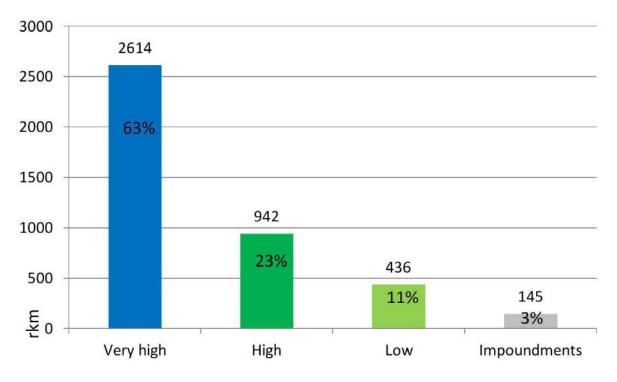


Fig. 8: Conservation value in rkm for HR

4. Hydropower plants

Hydropower plants were recorded firstly along the "status type" into "existing/operating", "under implementation" and "planned". Further dams are classified in three size classes: 1-10 MW, 10-50 MW, and > 50 MW.

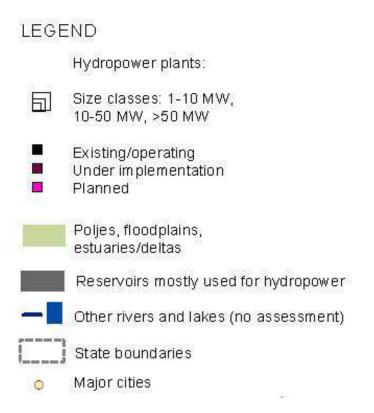


Fig. 9: Legend for the dam map on next page

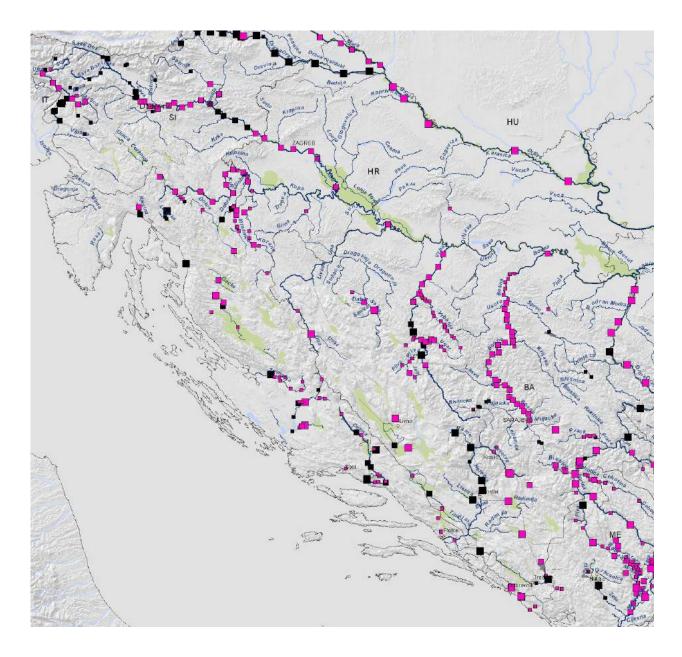


Fig. 10: Hydropower plants for HR.

Croatia plans a significant number of hydropower plants along all rivers and all sizes: Sensible karst rivers will be affected as well as the large lowland rivers such as Drava, Sava and Kupa.

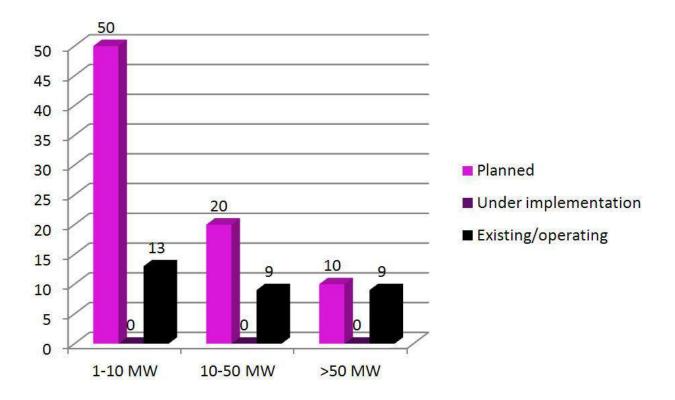


Fig. 11: Distribution of hydropower plants for HR.

5. Affected river stretches with conservation value by hydropower

This chapter combines the information of the "Conservation Value" with the planned hydropower plants.

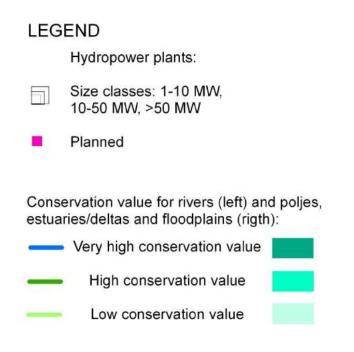


Fig. 12: Legend for the "conflict map" on next page

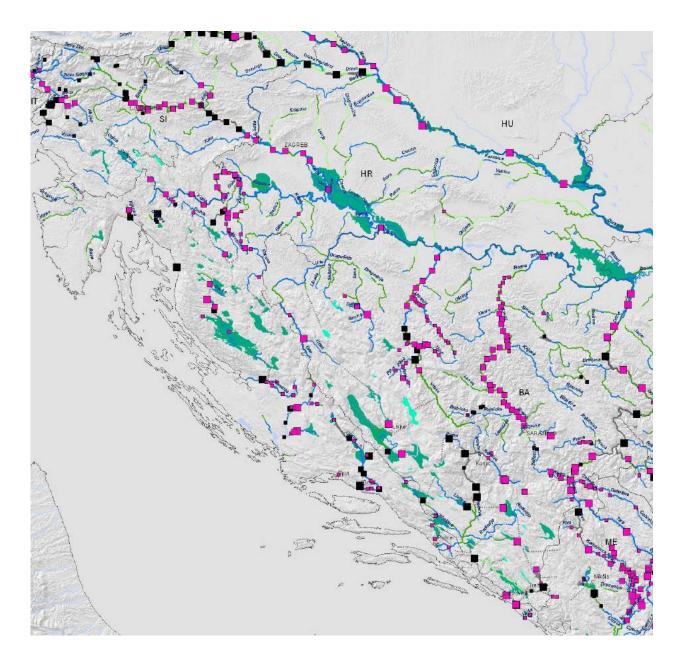


Fig. 13: Affected very high and high conservation stretches by planned hydropower plants for HR.

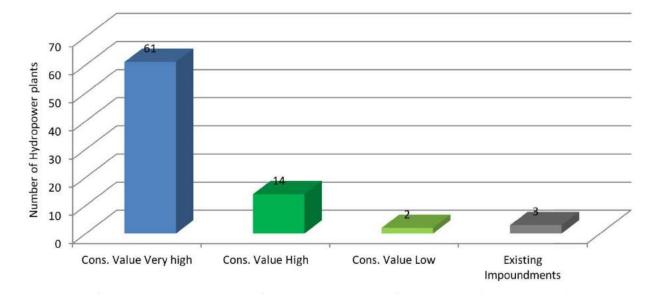


Fig. 14: Number of planned hydropower plants that would affect very high, high and low conservation stretches for HR.

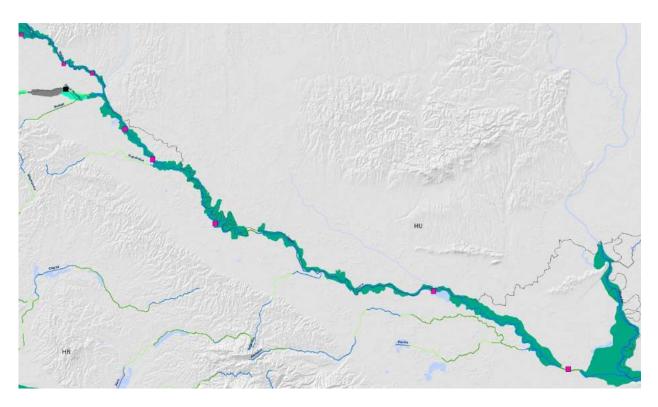


Fig. 15: Map zoom on lower Drava: New hydropower plants would be in contradiction to the declared transboundary biosphere park in the entirely designated protected area (Molve 1 and 2 just downstream of the Mura confluence replacing the earlier "Novo Virje" project and "Mota" on Mura are the most advanced proposals.

The recently completed hydropower plant "Lešče" is located at upper Dobra River. The project was implemented by HEP (Hrvatska Elektroprivreda) and is the first large hydropower plant built in Croatia since independency in 1991. The plant is a storage type with an installed power of 42 MW. The dam crest has 52.5 m and the length of the impounded reservoir is 13 rkm. The narrow valley used to be among the few with near-natural conditions in this part of Croatia. It has turned into a stagnant hydropower reservoir.



Construction works in 2008 (Google Panoramio, by user haze 2005).



Dobra before construction left (Google Panoramio, user lordstocks) and after clear-cut as preparation for flooding on right side (by Ivan Perković).

6. List of planned Hydropower dams

		Name Location	Installed	
ID_HP	Rivers Poljes	HPP	MW	Affected River Jewels
HR/SI_HP_511	Mura	Mursko Središće	10-50	T_SI-HR_RJ_476; T_SI- HR_RJ_628
				 T_SI-HR_RJ_476;
HR_HP_513	Mura	Gorican	10-50	HR_RJ_628
				T_SI-HR_RJ_476;
HR_HP_514	Mura	Kotoriba	10-50	HR_RJ_628
				T_SI-HR_RJ_476; T_SI-
HR/SI_HP_512	Mura	Podturen	10-50	HR_RJ_628
HR/SI_HP_520	Kupa	Kupari	10-50	
HR/SI_HP_521	Kupa	Kočičin	10-50	T_HR-SI_RJ_077
HR/SI_HP_522	Kupa	Dol	10-50	T_HR-SI_RJ_077
HR/SI_HP_523	Kupa	Severin	10-50	T_HR-SI_RJ_077
HR/SI_HP_524	Kupa	Prilišće	10-50	T_HR-SI_RJ_077
HR/SI_HP_525	Kupa	Stankovci	10-50	
HR/SI_HP_526	Kupa	Otok	10-50	
HR_HP_528	Kupa	Brodarci	10-50	
HR_HP_529	Kupa	Pokuplje	10-50	HR_RJ_423; HR_RJ_631
HR_HP_528	Kupa	Brodarci	10-50	
HR_HP_529	Kupa	Pokuplje	10-50	HR_RJ_423; HR_RJ_631
HR/SI_HP_527	Kupa	Božakovo	10-50	
HR/BA_HP_542	Sava	Šamac	10-50	T_HR-BA_RJ_627; T_SI- HR-RS_RJ_422
				T_SI-HR-RS_RJ_422;
HR_HP_386	Sava	Podsused	10-50	HR_RJ_625
	_			T_SI-HR-RS_RJ_422;
HR_HP_538	Sava	Prečko	10-50	HR_RJ_626
HR_HP_539	Sava	Zagreb	10-50	T_SI-HR-RS_RJ_422
HR_HP_540	Sava	Strelečko	10-50	T_SI-HR-RS_RJ_422; HR_RJ_626
	Sava	Jasenovac	10-50	T_SI-HR-RS_RJ_422;
HR_HP_541	Sava	Jasenovac	10-50	HR_RJ_626 T SI-HR-RS RJ 422;
HR_HP_387	Sava	Drenje	10-50	HR_RJ_626
HR_HP_389	Ombla	Ombla	> 50	
HR_HP_390	Lika	Kosinj	10-50	
HR_HP_507	Drava	Molve 2	> 50	HR_RJ_420; HR_RJ_629
HR_HP_507	Drava	Molve 1	> 50	HR_RJ_420; HR_RJ_629
HR_HP_508	Drava	Barcs	> 50	HR_RJ_420; HR_RJ_629
HR_HP_509	Drava	Donji Miholjac	> 50	HR RJ 420; HR RJ 629
HR_HP_510	Drava	Osijek	> 50	HR_RJ_420
HR_HP_515	Dretulja	Mrežnica	10-50	HR_RJ_427
HR_HP_516	Mrežnica	Juzbašić	10-50	HR_RJ_640
HR_HP_517	Mrežnica	Erdelj	10-50	HR_RJ_640
HR_HP_518	Korana	Primisje	10-50	HR RJ 642
HR_HP_519	Korana	Lučica	10-50	
HR_HP_530	Krka	Miljačka 2	> 50	HR_RJ_637
HR_HP_531	Čikola	Čikola 1&2	> 50	HR_RJ_636
HR_HP_532	Zrmanja	Ervenik	10-50	HR_RJ_632
HR_HP_533	Zrmanja	Zrmanja	10-50	HR_RJ_632
HR_HP_1581	Zrmanja	Zegar	1-10	HR_RJ_632
HR_HP_534	Rječina	Valici	10-50	
HR_HP_535	Lika	Senj 2	> 50	HR_RJ_431

HR HP 536 Lika Otocac 10-50 HR HP 537 Trebišnjca Dubrovnik 3 > 50 HR HP 1580 Cikola Cikola Skal 10-50 HR HP 1582 Fozega Orljava 1-10 Hendrika HR HP 1583 Glina Glina 1-10 Zeleni Vir HR HP 1586 Ilovac Kupa tributary 1-10 Hendrika HR HP 1586 Ilovac Kupa tributary 1-10 Hendrika HR HP 1580 Korana Barilovic 1-10 HR HR HP 1590 Korana Dobranic 1-10 HR HR HP 1590 Korana Dobranic 1-10 HR HR HP 1590 Meznica Bastaci 1-10 HR HR HP 1590 Meznica Bastaci 1-10	ID_HP	Rivers Poljes	Name Location HPP	Installed MW	Affected River Jewels
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Picture cover: User alenas on Google Panoramio (Korana River)

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