

Doc. No: IR-68-D-25-1/1-2 March 25, 2025

PLAN FOR WATERWAY MARKING AND MAINTENANCE ON THE SAVA RIVER AND ITS NAVIGABLE TRIBUTARIES FOR THE YEAR 2025

Adopted by Decision 1/25 of the International Sava River Basin Commission on March 25, 2025

Table of Contents

1. DESCI	RIPTION OF CRITICAL SECTORS
1.1.	LIST OF CRITICAL SECTORS
1.1.1.	Critical sectors at the Sava River section entirely in Croatia
1.1.2.	Critical sectors at the Sava River joint section between Croatia and Bosnia and Herzegovina
1.1.3.	Critical sectors at the Sava River section in Serbia4
1.2.	HYDROMORPHOLOGICAL CHANGES AT SPECIFIC SECTORS
1.2.1.	Hydromorphological changes at the Sava River section in Croatia5
1.2.2.	Hydromorphological changes the Sava River joint section between Croatia and Bosnia and Herzegovina11
1.2.3.	Hydromorphological changes at the Sava River section in Serbia26
2. MARK	ING PLAN
2.1.	CODES OF SIGNS USED IN MARKING PLAN
2.2.	SAVA RIVER
2.3.	KUPA RIVER
2.4.	SUMMARY OF USED MARKING SIGNS BY TYPE67
2.5.	EXPLANATORY NOTES
	LATION MEASURES PLAN FOR THE MAINTENANCE OF REQUIRED NSIONS OF THE SAVA RIVER FAIRWAY69
3.1.	MAINTENANCE OF DEFINED PARAMETERS OF THE FAIRWAY69
3.1.1	Dredging works planned in Croatia69
3.1.2.	Dredging works planned in Bosnia and Herzegovina
3.1.3.	Dredging works planned in Serbia69
3.2.	MAINTENANCE OF EXISTING AND CONSTRUCTION OF NEW RIVER ENGINEERING STRUCTURES
3.2.1.	Construction works planned in Croatia70
3.2.2.	Construction works planned in Bosnia and Herzegovina70
3.2.3.	Construction works planned in Serbia70

1. DESCRIPTION OF CRITICAL SECTORS

1.1. LIST OF CRITICAL SECTORS

1.1.1. Critical sectors at the Sava River section entirely in Croatia

Ne	Nome of the costor	Section	n (rkm)	Length of
No	Name of the sector	from	to	the section
1	Crnac	585,8	588,1	2,3
2	Blinjski Kut	580,0	583,7	3,7
3	Gušće*	570,7	579,0	8,3
4	Kratečko*	565,0	569,4	4,4
5	Bobovac*	558,8	563,4	4,6
6	Lonja 1 i Lonja – Strmen*	545,0	556,0	11,0
7	Puska	539,9	543,0	3,1
8	Krapje - Stolački bok	532,9	538,1	5,2
9	Drenov Bok	528,0	529,6	1,6
10	Višnjica - Drenov Bok	520,0	525,5	2,5
11	Jasenovac	515,5	518,1	2,6
	TOTAL:			49,3

*Particularly restricting sectors (note from the Agency for Inland Waterways - Croatia)

1.1.2. Critical sectors at the Sava River joint section between Croatia and Bosnia and Herzegovina

No		Section	n (rkm)	Length of
No	Name of the sector	from	to	the section
1	Košutarica	506,3	506,6	0,3
2	Košutarica-Brošćine*	500,6	501,0	0,4
3	Mlaka - Mala Ciperna	488,0	489,0	0,2
4	Gređani - Babin dol	478,0	480,0	2,0
5	Stara Gradiška	464,1	464,5	0,4
6	Savski Bok	453,3	454,6	1,3
7	Dolina*	445,3	449,8	4,5
8	Davor Mlature	428,7	430,2	1,5
9	Davor ušće Vrbasa*	426,2	427,2	1,0
10	Siče-Radinje	413,0	414,0	1,0
11	Dubočac	387,2	389,8	2,6
12	Migalovci*	379,3	383,7	4,4

13	Jaruge–Novi Grad*	320,5	329,0	8,5
14	Kruševica-Sitno*	316,5	317,5	1,0
15	Savulje SI. Šamac*	310,0	313.7	3,7
16	SI. Šamac – Vučjak*	304,2	309,0	4,8
17	B. Greda-Brezovica	295,5	296,1	0,6
18	Štitar-Staro Selo	274,5	275,3	0,8
19	Gunja*	215,9	227,5	11,6
20	Račinovci	210,8	212,7	1,9
	TOTAL:			42,5

*Particularly restricting sectors (note from the Agency for Inland Waterways - Croatia)

1.1.3. Critical sectors at the Sava River section in Serbia

No	Name of the sector	Section	(rkm)	Length of the
No		from	to	section
1	Confluence of the Drina River	177,0	184,0	7,0
2	Sremska Mitrovica	126,8	134,0	7,2
3	Klenak	106,0	112,6	6,6
4	Šabac	90,0	104,0	14,0
5	Kamičak	82,2	88,2	6,0
	TOTAL:			40,8

Note: The stretch from rkm 177 to rkm 178 of the critical sector Confluence of the Drina River is on the territory of the Republic of Serbia, while the remaining stretch from rkm 178 to rkm 184 is a joint sector between the Republic of Serbia and Bosnia and Hercegovina.

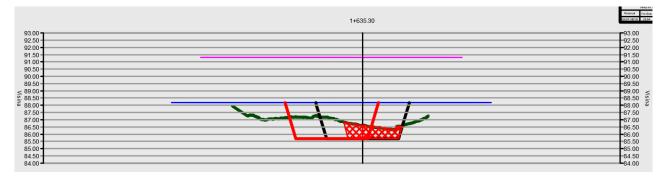
1.2. HYDROMORPHOLOGICAL CHANGES AT SPECIFIC SECTORS

1.2.1. Hydromorphological changes at the Sava River section in Croatia

Critical sector: Gušće (570+700 do rkm 579+000)

Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to annual bathymetric survey)

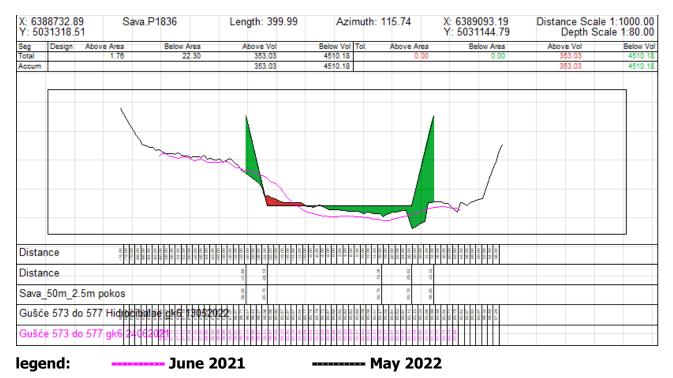
Profile at rkm 571+500 (EV 1830)



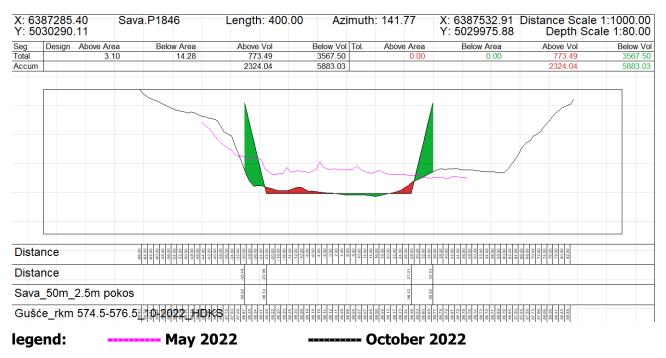
legend:

------ September 2018

Profile at rkm 573+100 (EV 1836)



Profile at rkm 574+700 (EV 1846)



rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
571,5	50	0,0	35,0	2,4	2,4
573,1	50	40	60	3,00	2,3
574,7	50	20	20	2,57	2,32

Note: Dredging was carried out in 2018 in a narrowed profile with a partially translated fairway route. Technical maintenance works were executed in 2021, 2022 and 2023.

Critical sector: Kratečko (rkm 565+000 do rkm 569+400)

Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to annual bathymetric survey)

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Profile at rkm 565+700 (EV 1800), 06/2021

legend: _____ June 2021

Waterway data/available (reduced) fairway parameters assessed to the waterway class

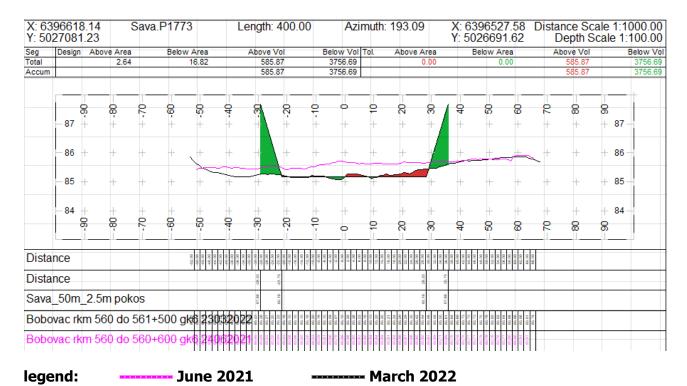
rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
560,15	50	25	25	2,61	2,24

Note: Dredging works were completed in 2021.

Critical sector: Bobovac (rkm 558+800 do rkm 563+400)

Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to annual bathymetric survey)

Profile at rkm 560+150 (EV 1773)



Waterway data/available (reduced) fairway parameters assessed to the waterway class

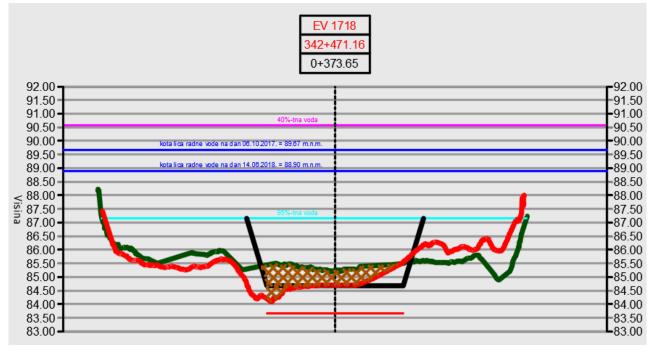
rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
549,5	50	0,0	0,0	2,2	1,5
560,15	50	25	25	2,61	2,24

Note: Dredging works were carried out in 2017, 2018, 2019, 2022, 2023, and 2024.

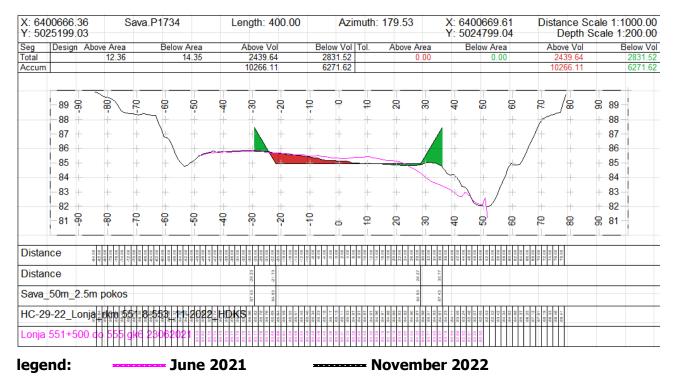
Critical sector: Lonja and Lonja – Strmen (rkm 545+000 do rkm 556+000)

Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to annual bathymetric survey)

Profile at rkm 552+850 (EV 1734)



legend: _____ October 2017 _____ June 2018



Profile at rkm 552+850 (EV 1734)

Waterway data/available (reduced) fairway parameters assessed to the waterway class

rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor	
552,85	50	15	25	5,40	1,70	

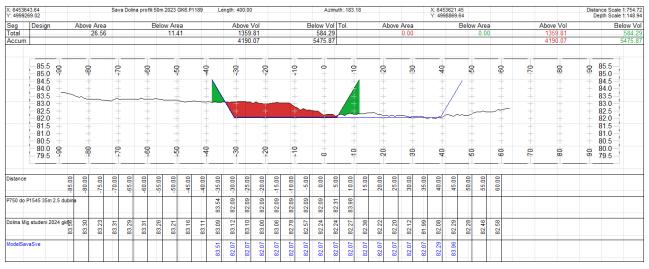
Note: Dredging works performed in 2017, 2018, 2019, 2022, 2023, and 2024.

1.2.2. Hydromorphological changes on the Sava River joint section between Croatia and Bosnia and Herzegovina

Critical sector: Dolina (rkm 445+300 – rkm 4498500)

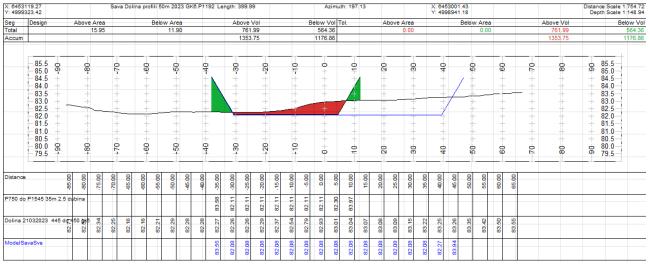
Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to annual bathymetric survey)

Profile at rkm 446+100 (EV 1189)



legend: ----- November 2024

Profile at rkm 447+100 (EV 1192)



legend: March 2023

rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
446,1	70	0,0	5,0	2,5	1,5
447,1	70	0,0	0,0	2,4	1,6

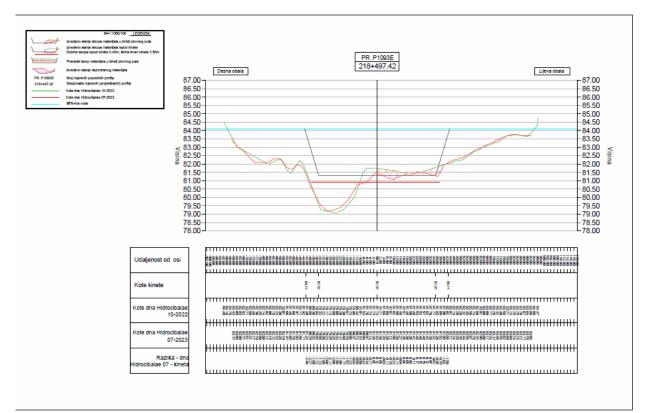
Waterway data/available (reduced) fairway parameters assessed to the waterway class

Note: Intervening works on technical maintenance of the fairway were carried out on the Croatian side of the waterway in 2024, which will continue in 2025.

Critical sector: Davor – Ušće Vrbasa (rkm 426+200 – rkm 427+700)

Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to annual bathymetric survey)

Profile at rkm 426+900 (EV 1094)



legend: _____ october 2022

----- July 2023

Waterway data/available (reduced) fairway parameters assessed to the waterway class

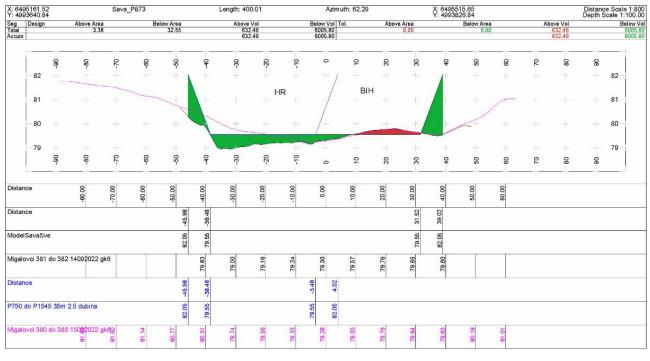
rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
426,7	70	45	80	3,1	2,5

Note: Planned dredging works on the Croatian waterway side were completed in 2023.

Critical sector: Migalovci (rkm 379+300 – rkm 383+700)

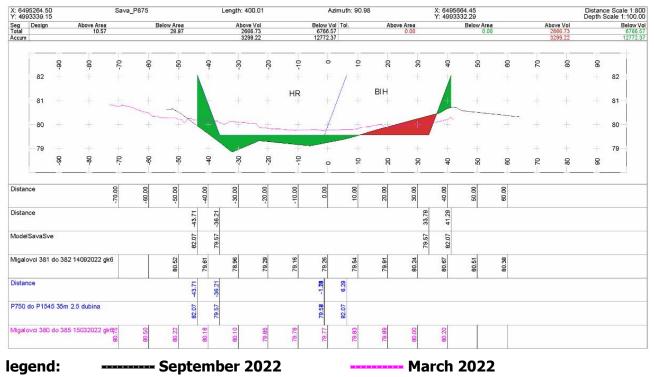
Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to annual bathymetric survey)

Profile at rkm 381+700 (EV 873)



legend: ----- September 2022 ----- March 2022

Profile at rkm 379+500 (EV 875)



rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
381,7	70	50	50	3,11	2,27
379,5	70	60	60	3,21	1,63

Waterway data/available (reduced) fairway parameters assessed to the waterway class

Note: Works on technical maintenance were executed on the Croatian side of the waterway from rkm 374 to rkm 382 in 2021 and 2022.

Critical sector: Jaruge – Novi Grad (rkm 320+500 – rkm 329+000)

Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to annual bathymetric survey)

Profile at rkm 321+900 (EV 566)

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Nov P	Grad ^{er}	2019 £	604 a	k6 %		/8./4	79.83	77.81	77.16	75.74	75.48	75.69	75.95	76.73	78.68	79.20	79.25	79.38	79.60	79.70	79.89
larug	e_Ng	irad (avan	201	gk6	/A.48	80.11	78.24	77.42	75.98	75.49	75.71	75.85	77.62	78.82	79.23	79.36	79.48	79.59	79.80	79.92
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Profile at rkm 324+500 (EV 578)

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arug	e_N6	rad t	avan	201	a gł	(6 8)	79.21	78.92	78.79	78.86	78.80	78.76	78.69	78.60	78.76	79.16	79.27	79.35	79.46	79.66	79.89
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Mode								78.92	78.81	78.81	78.81	78.81	78.81	78.81	78.81						
Novia	Grad	2019	604	ğk6	80.53	80.68	80.65	80.72	80.76	80.36	80.42	80.22	79.99	79.84	79.87		80.17	80.08	80.05	80.06	80.28
Jarutĝ	e_N∉ ଛ	irad 8	avar	g 201	<mark>4</mark> gk	8 ³²⁸	80.31	80.24	80.25	80.10	79.96	79.78	79.62	79.57	79.65	79.75	79.91	79.88	79.83	79.84	80.01
P1 do	P750) 35m	2.5	dubin	a			78.92	78.81	78.81	78.81	80.36									
ege	nd:					20	19				-			201	.4						!

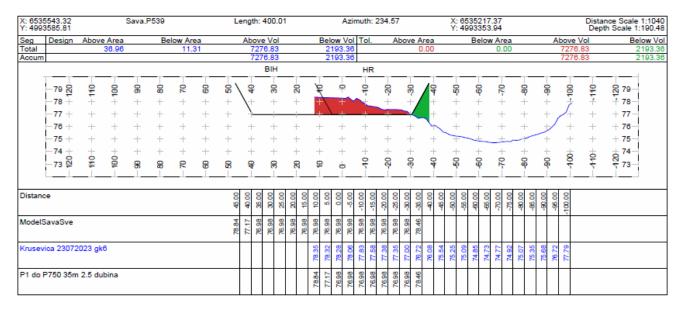
Profile at rkm 328+800 (EV 598)

rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
321,9	70	65	65	4,99	2,00
324,5	70	0	0	2,25	1,72
328,8	70	0	0	1,50	0,59

Critical sector: Kruševica - Sitno (rkm 316+500 – rkm 317+500)

Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to annual bathymetric survey)

Profile at rkm 316+800 (EV 539)



legend: July 2023

Profile at rkm 317+100 (EV 540)

X: 6535 Y: 4993				Sava.F	P540					Len	gth:	400	0.00					Azin	nuth	: 24	1.69)					3506 9360									Scale 1:10 ale 1:190.
Seg	Design	Above			Be	low A					bov						low '				A	bove	e Are	ea			Belo						Above			Below \
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Accum											1947	70.1	4			- 5	i344	.94															19470).14		5344.
_													BIH							HR																
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	-					140	60.09	55.00	50.00	45.00	35.00	30.00	25.00	20.0	15.00	899	80	40	-10.00	-15.00	-25.00	-30.00	-35.00	40.8	-50.00	-55.00	-60.00	-70.00	-75.00	-80.00	-85.00	-90.00				
ModelS	avaSve									79.11	10.77	77.07	77.07	77.07	77.00			77.07	77.07	M0711	10.11		78.37													
Krusevi	ica 23072	023 gk	6			Ŗ	78.38	78.42	78.43	78.20	78.06	78.00	78.09		78.10		77.47	77.33	77.42		77.81	71.17		76.86		75.09	74.70	74.50	74.79	74.89		76.14				
P1 do F	P750 35m	2.5 du	bina							1					-	77.44	70.77	70.77		10.11	10.17		78.37													

rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
316,8	70	0	60	4,75	1,13
317,1	70	0	55	5,07	1,40

Critical sector: Savulje SI. Šamac (rkm 310+000 – rkm 313+700)

Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to annual bathymetric survey)

Profile at rkm 310+500 (EV 506)

Seg Fotal Accum	Desig	nAbov	/e Area 81.12		Belo	w Area 12.85		16	ove Vo 3335.8 3335.8	4	2	low Vo 578.7 578.7	3	Ab	ove Ar 0.	ea 00	B	elow A ((rea).00		Abov 1633		B	250.00 elow Vo 2578.73 2578.73
	84 83 82 81 80 79 78 77		+ +		-02+++++++		++++++++-20	+++++++40	+++++++	+++++20	01-+-++++++++++++++++++++++++++++++++	0++++++++++++++++++++++++++++++++++++++	++++++10-	++++++20-	- + ++++++++++++++++++++++++++++++++++	+ + + + + + + + 40 -	++++++++	+++++++++++++++++++++++++++++++++++++++	-01++++++++++++++++++++++++++++++++++++	+++++80	+++++++++++++++++++++++++++++++++++++++	++++++++100	084 83 82 81 80 79 78 77	
	76 -75 -74 -73 -72 -71	2 6	F 4	80	++++-02	++++-09+	-++++05	-++++-0+			+++++-01+	+ + + 0	-10++++-	20 + + +	30 + + +	40++++	- 20+ + + +	-+++-09	++++02	80 + + +	++++06	100 + + + +	76 -75 -74 -73 •72 •71	
Dista	nce8	100.00	-90.00	-80.00	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00		
Node									75.97	75.97	75.97	75.97	75.97	75.97	75.97	75.99								
Same F	c 28	190 8	06 £ ⊭	6K68	rstମ୍ମ ନ	B 26.20	75.66	76.06	76.48	76.85	77.10	77.36	77.47	77.35	76.89	76.71	76.37	76.18	75.84	75.51	75.93	79.96		
P1 dc	P75	0 35	m 2.	5 dub	(8		77.64								

Profile at rkm 311+600 (EV 512)

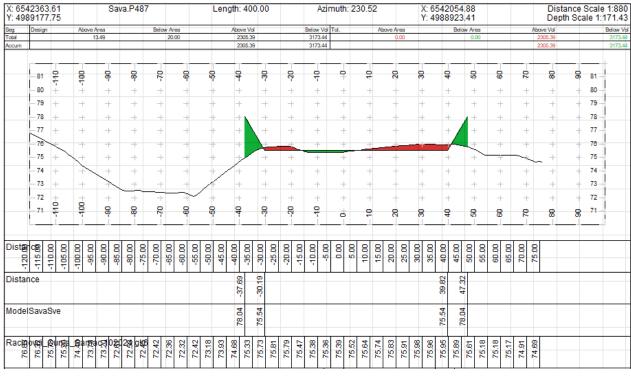
Seg Total Accum	Design		Area 29.21			/ Area 56.36		6	ove Vo 6017.3 6379.2	2	11	elow Vo 1610.0 7453.3	6	Ab	ove Ai	ea .00	В	elow A	.00			e Vol 17.32 79.21		Below Vo 11610.0 17453.3
	84014 83 82 81 80 79 78 76 75 76 75 74 73 720 71 71 71		-06+++++++++++++06	-80 ++++++++++++++++++++++++++++++++++++	02+++++++++++++++++++++++++++++++++++++	-60-++++++++++-60-	-50 + + + + + + + + + + -50	40++++++++++40	-30+++++++++++30	-20+++++++++++20	-+++++++++++++0-+++0	0 + + + + + + + + + + + + + + + + + + +	-10+++++++++++10	-20++++++++++++20-	30+++++ <u>+</u> ++++ <u>1</u> ++30	-40++++++++++++++++++++++++++++++++++++	-50+++++++++50-	60 + + + + + + 60	0 2++++++++++++ 0 2	80++++++++++80	-90+++++++++++90-	-100 + + + + + + + + + + 100	088 88 88 88 77 77 77 77 77 77 77 77 77 7	2 0 9 8 7 5 4 - 3 -
Dista	10080	100.00	-90.00	-80.00	-70.00	-60.00	-50.00	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00
	ISava								76.85	76.63	76.63	76.63	76.63	76.63	76.63	76.63								
Samta 5	c 2 0 1	9 06 0	6 © K	67 r	st 🔊 // E	73.75	74.42	74.54	75.37	75.33	75.77	76.49	77.41	77.56	77.42	77.20	76.85	76.82	76.95	77.22	77.41	77.73	78.29	78.50
P1 do	P750) 35m	2.5	dub				8			2					78.30								

rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
310,5	70	0	30	3,35	0,99
311,6	70	30	60	5,38	1,48

Critical sector: Sl. Šamac Vučjak (rkm 304+200 – rkm 309+000)

Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to annual bathymetric survey)

Profile at rkm 307+100 (EV 487)



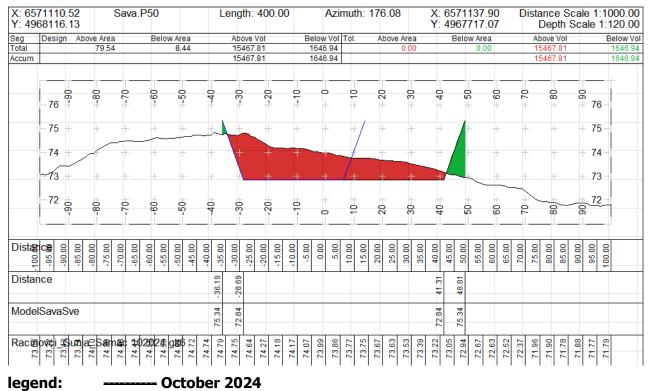
legend: October 2024

rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
307,1	70	15	60	2,68	2,09

Critical sector: Gunja (rkm 215+900 – rkm 227+500)

Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to annual bathymetric survey)

Profile at rkm 221+200 (EV 50)



Profile at rkm 221+400 (EV 51)

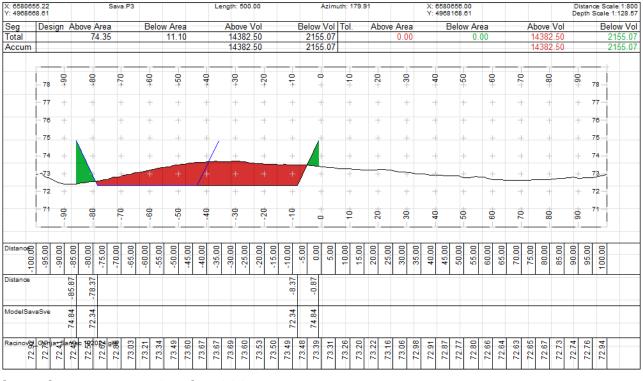
Seg		53.59	ve Area		Below	Aroa		Above	Vol	Re	low Vol	Tal	Above	Aroa		96770 Below A			bove Vol	cale I	:120.00 Below V
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	-75	+	+	+		-+-		+	+	+		-	+	+	/+	+	+	-/	+	+ 75	5—
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	<u>-72</u>	06- -	-80	-70	9	-20	-40	-30	-20	-10	+ 0	1	50	30	40	20	8	20	80	6 72	2
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Dista									9 7 7	8							65.04	72.54			
Mode	lSav	aSve							15 35 1	72.85							72.85	75.35			
Ract	no≅ci ₽	13.000 13.000 13.000	13. 13. 13. 13. 13. 13. 13. 13. 13. 13.		1920. 12:20	248.9k	75.13 75.12	75.09	75.30 75.36	75.15 75.15	75.17 75.04	74.92	74.56 74.63	74.36	74.05	73.64	73.54 73.58	73.53	73.47 73.50	73.54 73.54	73.53

rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
221,2	70	0	0	221,2	70
221,4	70	0	0	221,4	70

Critical sector: Račinovci (rkm 210+800 – rkm 212+700)

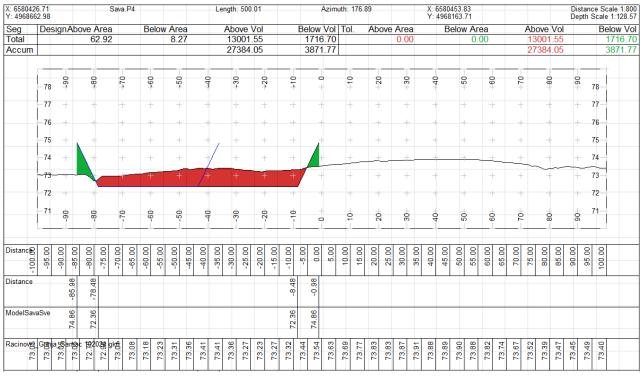
Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to annual bathymetric survey)

Profile at rkm 211+400 (EV 3)



legend: October 2024

Profile at rkm 211+750 (EV 4)



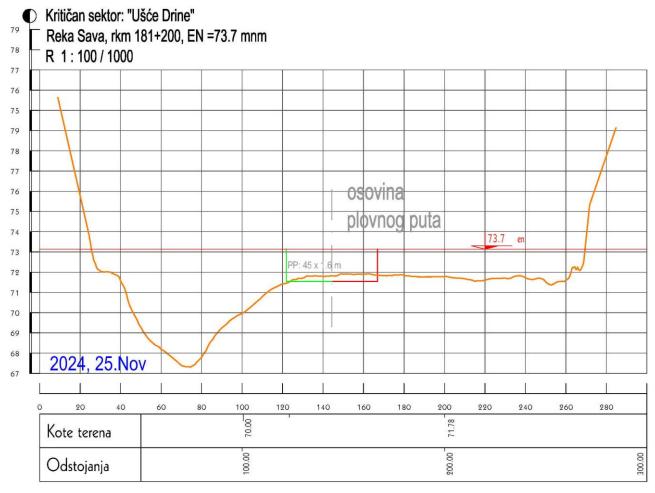
legend: ----- October 2024

rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
211,4	70	0	0	2,04	1,17
211,75	70	0	0	1,86	1,45

1.2.3. Hydromorphological changes at the Sava River section in Serbia

Critical sector: Confluence of the Drina River

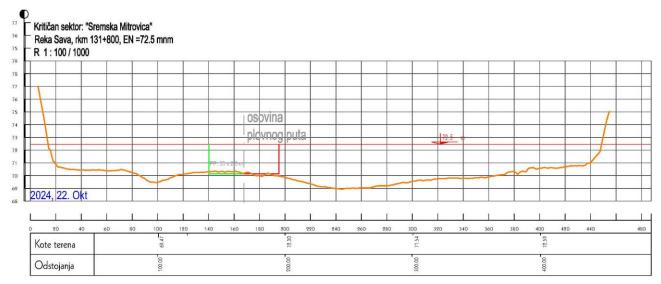
Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to the annual bathymetric survey performed on November 26, 2024)



rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
183+400	45	38	108	2.4	1.4
183+200	45	43	76	2.4	1.5
182+400	45	39	223	2.6	1.5
181+600	45	34	115	3.7	1.6
181+400	45	26	108	2.9	1.2
181+200	45	2	82	5.8	1.2
178+800	45	0	166	4.6	1.0
178+600	45	29	184	6	1

Critical sector: Sremska Mitrovica

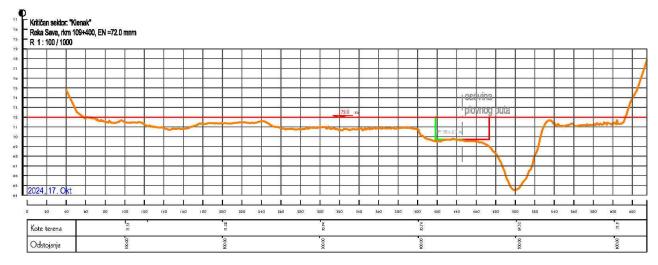
Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to the annual bathymetric survey on October 22, 2024)



rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
131+800	55	22	186	3.5	2.1
131+600	55	55	214	4.0	2.3
127+200	55	55	225	3.1	2.3

Critical sector: Klenak

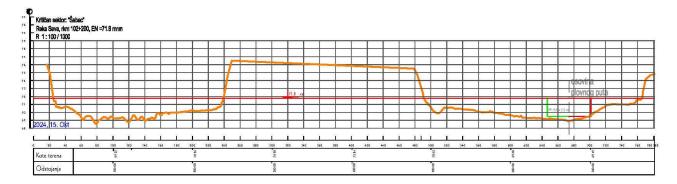
Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to the annual bathymetric survey on October 17, 2024)



rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
109+400	55	31	83	7.5	2.2

Critical sector: Šabac

Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to the annual bathymetric survey on October 15, 2024)



Waterway data/available (reduced) fairway parameters assessed to the waterway class

rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
102+200	55	52	85	2.9	2.1
93+800	55	55	84	3.2	2.3

Note: Dredging works performed in 2018, 2019 and 2020 assured fairway parameters required by the waterway class over the whole stretch of the critical sector "Šabac". Hydrographic images from 2024 revealed a slight deterioration in the waterway from the design.

Critical sector: Kamičak

Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to the annual bathymetric survey on October 3, 2024)

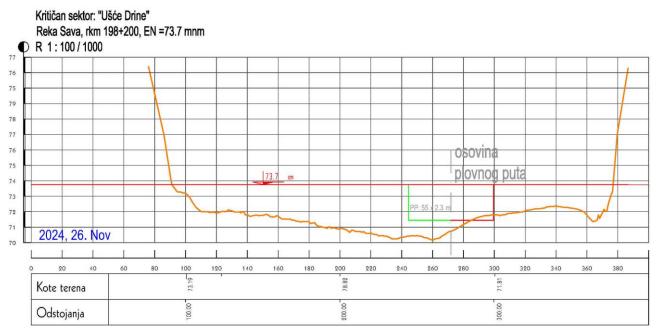
Note: Dredging works performed in 2017 assured fairway parameters required by the waterway class along the entire stretch of the critical sector "Kamičak".

rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
-	55	55			

Other sectors with noticeable changes in river bed morphology in 2022

River stretch: rkm 199+000 - rkm 196+000

Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to the annual bathymetric survey on November 26, 2024)



rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
198+200	55	41	116	4.1	1.9
198+000	55	54	121	4.3	2.3

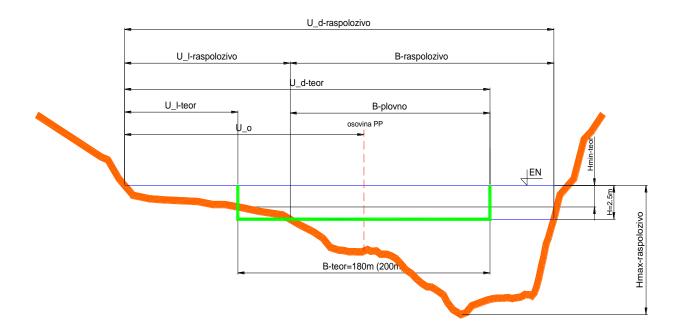
River stretch: rkm 196+000 - rkm 193+000

Characteristic cross-section profiles at critical sectors – hydromorphological changes in profiles (according to the annual bathymetric survey on November 26, 2024)

rkm	B-theor	B-navigable	B-available	Hmax-available	Hmin-theor
-	45	45			

Explanation of values in tables with Waterway data/available (reduced) fairway parameters assessed to the waterway class

rkm –	Profile position
B – theor –	Defined (theoretical) fairway width
B-navigable –	Available waterway width corresponding to appropriate vessel draft at the low navigable water level LNL in defined (theoretical) fairway
B-available –	Available waterway width corresponding to appropriate vessel draft at the low navigable water level LNL in the defined (theoretical) fairway in the whole cross-section profile
Hmax- available –	Maximal depth in the available fairway corresponding to the low navigable water level LNL
Hmin-teor –	Minimal depth in the defined (theoretical) fairway corresponding to the low navigable water level LNL

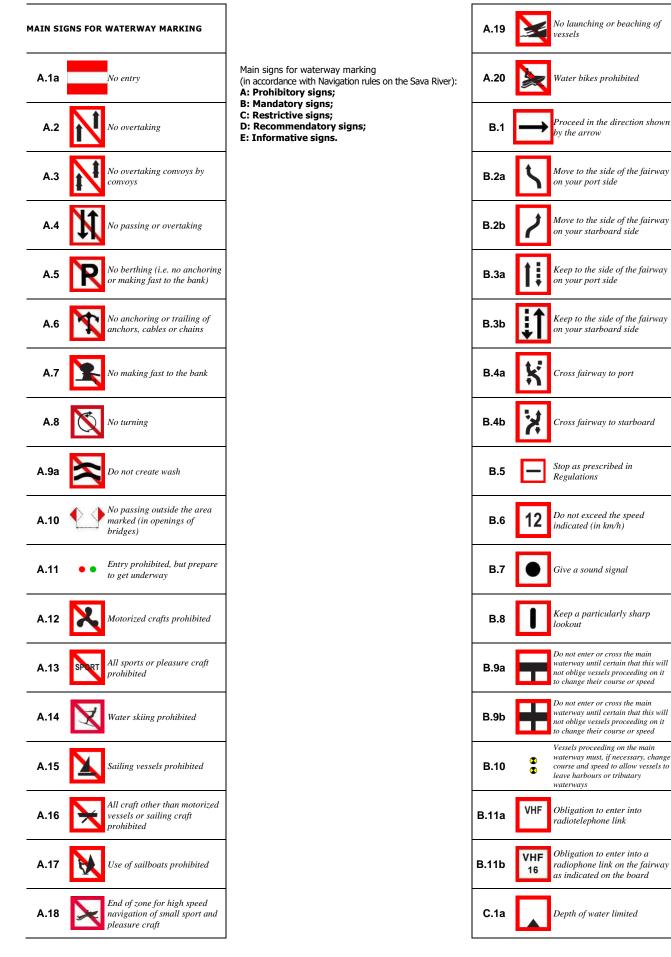


Note: Hydromorphological changes at specific sectors and parameters shown above were calculated in accordance with the waterway class given in the table below (ISRBC Decision 5/17 on the Adoption of the Classification of the Sava River waterway), while relevant waterway agencies from Croatia and Serbia provided the profiles with depicted morphological changes.

Section of th	e Sava River	Longth (km)	Waterway Class	
downstream (rkm)	upstream (rkm)	Length (km)	Waterway Class	
0,0 Sava Mouth	81,0 Kamičak	81,0	Va	
81,0 Kamičak	176,0 Rača	95,0	IV	
176,0 Rača	196,0 Domuskela	20,0	III	
196,0 Domuskela	313,7 Slavonski Šamac Šamac	117,7	IV	
313,7 Slavonski Šamac Šamac	Slavonski Šamac Oprisavci		III	
338,2 Oprisavci Rit kanal	371,2 Slavonski Brod Brod	33,0	IV	
371,2 Slavonski Brod Brod	594,0 Sisak	222,8	III	

2. MARKING PLAN

2.1. CODES OF SIGNS USED IN MARKING PLAN

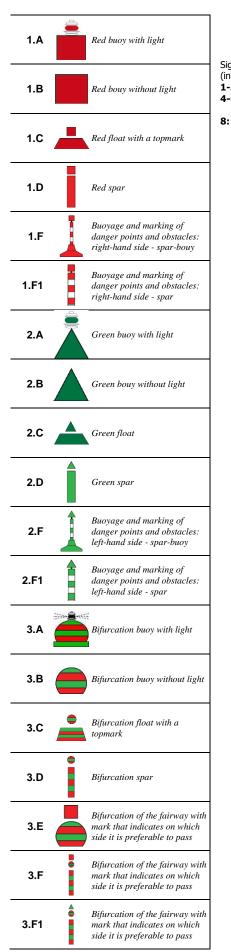


C.1b	2.20	Depth of water limited
C.2a		Headroom limited
C.2b	7.50	Headroom limited
C.3a		Width of passage or fairway limited
C.3b	45	Width of passage or fairway limited
C.4		There are restrictions on navigation: make enquiries
C.5	60	The fairway lies at a distance from the right (left) bank
D.1a	•	Recommended fairway in both directions
D.1b	•	Recommended fairway in both directions
D.1c	• •	Recommended fairway only in the direction indicated (passage in the opposite direction prohibited)
D.1d		Recommended fairway only in the direction indicated (passage in the opposite direction prohibited)
D.1e	••	Recommended fairway only in the direction indicated (passage in the opposite direction prohibited)
D.1f	•	Recommended fairway only in the direction indicated (passage in the opposite direction prohibited)
D.2a	•	Recommendation to keep within the area indicated (in openings of bridges or weirs)
D.3a		You are recommended to proceed in the direction shown by the arrow
E.1a		Entry permitted (general sign)
E.2	7	Overhead cable crossing
E.3		Weir
E.4a	Ŀ	Ferry-boat not moving independently

E.4b	_	Ferry-boat moving independently
E.5	Ρ	Berthing (anchoring or making fast to the bank) permitted
E.5.1	60	Berthing permitted on the stretch of water of the breadth measured from, and shown on the board in meters
E.5.2	<mark>30-60</mark>	Berthing permitted on the stretch of the water bounded by the two distances measured from, and shown on the board in meters
E.5.3		Maximum number of vessels permitted to berth abreast
E.5.4		Berthing area reserved for pushing- navigation vessels that are not required to carry the marking
E.5.5		Berthing area reserved for pushing- navigation vessels that are required to carry one blue light or one blue cone
E.5.6	A	Berthing area reserved for pushing- navigation vessels that are required to carry two blue lights or two blue cones
E.5.7	Å	Berthing area reserved for pushing- navigation vessels that are required to carry three blue lights or three blue cones
E.5.8		Berthing area reserved for vessels other than pushing-navigation vessels that are not required to carry the marking
E.5.9	$\mathbf{\nabla}$	Berthing area reserved for vessels other than pushing-navigation vessels that are required to carry one blue light or one blue cone
E.5.10	A	Berthing area reserved for vessels other than pushing-navigation vessels that are required to carry two blue lights or two blue cones
E.5.11	¥	Berthing area reserved for vessels other than pushing-navigation vessels that are required to carry three blue lights or three blue cones
E.5.12		Berthing area reserved for all vessels that are not required to carry the marking
E.5.13	\diamondsuit	Berthing area reserved for all vessels that are required to carry one blue light or one blue cone
E.5.14	Ŷ	Berthing area reserved for all vessels that are required to carry two blue lights or two blue cones
E.5.15		Berthing area reserved for all vessels that are required to carry three blue lights or three blue cones
E.6	Ļ	Anchoring or trailing of anchors, cables or chains permitted
E.7	£	Making fast to the bank permitted

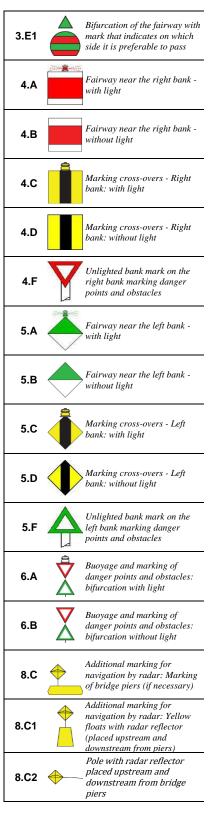
E.7.1	Berthing area reserved for loading and unloading vehicles. (Maximum duration of berthing permitted may be added on an information plate below the board)
E.8	Turning area
E.9a	The waterways being approached are considered to be tributaries of the waterway
E.9b	The waterways being approached are considered to be tributaries of the waterway
E.10a	This waterway is considered to be a tributary of the waterway being approached
E.10b	This waterways is considered to be a tributary of the waterway being approached
E.11a	End of a prohibition or obligation applying to traffic in one direction only, or end of a restriction
E.11b	End of a prohibition or obligation applying to traffic in one direction only, or end of restriction
E.13	Drinking-water supply
E.14	Telephone
E.15	Motorized vessels permitted
E.16	Sports or pleasure craft permitted
E.17	Water skiing permitted
E.18	Sailing vessels permitted
E.19	Craft other than motorized vessels or sailing craft premitted
E.20	Use of sailboards permitted
E.21	Zone authorized for high speed navigation of small sport and pleasure craft
E.22	Launching or beaching of vessels permitted
E.23	VHF 11 Possibility of obtaining nautical information by radio- telephone on the channel indicated

E.24	Water bikes permitted
E.25	Available power supply
E.26	Winter harbour
E.26.1	Maximum number of vessels allowed in the winter harbour
E.27	Winter shelter
E.27.1	Maximum number of vessels allowed in the winter shelter - Maximum number of vessels permitted to berth abreast - Maximum number of rows of vessels permitted to berth abreast
	km Kilometer mark



Signs for fairway marking:

- (in accordance with Navigation rules on the Sava River):
- 1-3: Floating signs for fairway marking;
- 4-6: Marks on land indicating the position of the fairway in relation to the banks;
- : Additional marking for navigation by radar



2.2. SAVA RIVER

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	km 594.0			583.3	
	km 593.0			km 583.0	
	592.0 km		-	km 582.0	
	591.1			581.6	
	km 🥃 591.0			581.4	
	590.0			581.1	
	589.0 J			km 581.0	
	km 588.0			580.7	
	587.8	•		580.0	n
	km 587.0			579.0	
Õ	1 586.5			579.0	
	km 586.0			578.2	2•
	585.0			578.2	
	km 585.0		_	km 578.0	
	584.5			577.0 L	n !
	584.1			576.2	
	km 584.0			576.0	km
	583.5			576.0	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	575.1			566.0	
	575.0 X	km		565.1	
	575.0]		565.0	
	574.8			565.0	
	574.5		N	564.5	
	574.0		kn	1 564.0	
	573.5			563.7	
	573.0 km		kn La	n 563.0	
	572.0			562.9	
	571.0] 		562.6	
	570.0	► km		n 562.0	
	570.0			562.0	
	km 569.0		kn	1 561.0	
	568.0		kn L	n 560.0	
	567.3			n 559.0	
	567.3		<u></u>	559.0	
	km 567.0		kr	n 558.0	
N	km 566.0		1	557.1	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	km			km	
_	557.0			546.0	
	km			km	
	556.0			545.0	
				km	
	555.4			544.0	
	km			2	km
	555.0			543.0	
	554.8			542.1	
				km	
	554.2			542.0	
km					
	554.0			541.5	
•	🕨 🔸 🗼 kn	n 🔺 📐		km	
	553.0			541.0	
	2			km	
	553.0	7		540.0	
				2	km
	552.5			539.0	
	km 🔒				
	552.0			539.0	
	km		kı	m	
	551.0			538.0	
	2				
	550.5	7		537.9	
	km			km	
	550.0			537.0	
	km			m	
I	549.0			536.0	
	kn	n		Â	
	548.0			535.2	7
	2	km		km	
	547.0			535.0	
				km	
	546.0			534.0	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	533.0 km			520.0 ×	n
	532.6			519.0 ×	n
	532.1			518.5	
	532.0	km		518.5	
	531.0	km		518.0 kn	n
	531.0]		517.4	N
	530.0 L			517.0 kn	n
	529.0 km			516.3	
	528.8		-	516.2	
	528.0 km		-	516.0 kn	n
	527.0 km	•		515.9	
	526.0 km			515.8	
	525.5			515.6	
	525.0			515.0 kn	n
	524.0			514.0	J O
	523.0			514.0	• km
	522.0			514.0	
	521.0 km			513.0 kn	n

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	km				km
	512.0			497.0	
	511.0	km L		496.0	km La
	510.5	>		495.0	km
	km				km
	510.0 km			494.0	
	509.0			493.5	
	508.0 km			493.0	km
	km				km
	507.0			492.0	
	506.0 A			491.5	\checkmark
	505.0 km			491.0	km
	km			km	
	504.0			490.0	
	503.0			km 489.0	
	502.8			km 488.0	
	km			km	
	502.0			487.0	
	501.0 🗐			487.0	
	500.9	>		486.7	
	km				km
	500.0			486.0	
	499.0 🗐			485.0	
	498.0 A			485.0	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	km			467.0	
	484.0			~	•
	483.0			466.2	
	km			466.0 km	
	482.0				
	481.0			465.0	
	km				
	480.0			464.5	
	km				
	479.0			464.4	
	km			464.2	
	478.0			km	
	477.0			464.0	
	km			km	
	476.0			463.0	- A
	475.0			462.0	km
	km			462.0	
	474.0			462.0	
	km			Ê	km
	473.0			461.0	
	km			kn	
	472.0			460.0	
	471.0			460.0	
	km			kn	n
	470.0			459.0	
	km (so a			458.0	n
	469.0 km			458.0	km
	468.0	4		457.0	
	Č				km
	467.9			456.0	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	455.5			km	
				447.0	
	455.0 A		_	446.0	
	454.1			445.0 ×	
	km			km	
	454.0	_		444.0	
	453.1			443.0 A	
	km			Â	
	453.0	-		442.3	
	452.6			442.0	
	452.0 A			441.0 🖉	
	451.6			440.0	
	km			km	
	451.0			439.0	
	450.0 km			438.0	
	449.3			437.9	
		km		km	
	449.0			437.0	
	448.8			436.0 km	
	A			436.0 🖂	
	448.6			435.0	
	448.2			434.2	
	<u></u>			km	
	448.1			434.0	
	km			km	
	448.0			433.0	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	432.0 km			421.0 k	m
	431.0 km			420.5	
	430.5			420.5	
	430.3			420.2	
	430.0 🖂			420.0	m d
	429.1			419.7	
	429.0 A			419.0 L	m d
	428.5			418.0	
	428.0 km			418.0	•
	427.0 A			417.0 L	m
	426.9			416.4	
	426.8				m L
	426.0 L	•		415.0	m d
	425.1	•		414.0	m
	425.0 A			412.0	m
	424.0 🖌			412.4	■ â
	423.0 km	- -		412.0	
	422.0			411.0	m

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	kr	n		kn	n
	410.0			395.0	
	409.0			394.8	
	408.0	n		894.0	n
	kr	n		kn	2
	407.0			393.0	
	406.0			<mark>kn</mark> 392.0	n
	405.0			891.0 A	
	404.0			kn 390.0	n
				330.0	
	403.0			389.9	
	402.0	n 👗		389.3	
	401.1			389.1	
	km			kn	n
	401.0			389.0	
	400.5			388.7	
	400.0	<mark>km</mark>		388.6	
	kr	n		388.3	
	399.0				
	398.0 kr	n		<mark>kn</mark> 388.0	1
				kn	n
	397.4			387.0	
	397.0 kr	n		386.0 kn	1
	kr	n			
	396.0			385.3	

385.0 Im 376.4 Im 384.1 376.0 Im 376.0 Im 384.1 Im Im 376.0 Im Im 384.0 Im Im Im Im Im Im 384.0 Im Im </th <th>RIGHT BANK</th> <th>Distance rkm</th> <th>LEFT BANK</th> <th>RIGHT BANK</th> <th>Distance rkm</th> <th>LEFT BANK</th>	RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
384.1 376.0 Image: Section of the s					376.4	8
384.0 375.0 383.2 375.0 383.1 375.0 383.1 375.0 383.1 375.0 383.0 375.0 383.0 375.0 383.0 375.0 383.0 375.0 383.0 375.0 383.0 374.9 382.0 374.8 380.8 374.5 380.8 374.2 380.0 374.1 380.0 374.1 380.0 374.1 380.0 374.1 375.1 373.8 378.1 373.8 378.0 373.8 378.0 373.8						
383.2 375.0 383.1 375.0 383.1 374.9 383.0 374.9 380.0 374.8 380.0 374.5 380.0 374.5 380.0 374.1 380.0 374.1 380.0 374.1 379.0 374.1 379.0 374.1 378.6 373.8 378.1 373.8 378.0 373.8 378.0 373.8 377.0 373.6				O 🕹		
383.0 Image: Sector of the	-	383.2			375.0	
383.0 333.0 374.9 382.0 374.8 382.0 374.8 381.0 374.5 380.8 374.2 380.0 374.1 380.0 374.1 379.4 374.1 379.4 374.1 378.6 373.8 378.6 373.8 378.0 373.8 378.0 373.8		383.1			375.0	
382.0 374.8 381.0 I 380.8 374.5 380.8 374.2 380.0 I 380.0 II 380.0 II 380.0 II 380.0 II 379.0 II 379.0 III 378.6 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		383.0			374.9	
381.0 331.1 331.0 <td< td=""><td></td><td>382.0</td><td></td><td></td><td>P 374.8</td><td>_</td></td<>		382.0			P 374.8	_
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					R 374.5	R
380.0 379.4 374.1 379.0 374.0 374.0 378.6 373.8 373.8 378.1 373.8 373.8 378.0 373.8 373.8 378.0 373.8 373.8					374.2	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				11	374.1	
379.0 374.0 378.6 373.8 378.1 373.8 378.0 373.8 378.0 373.6 377.0 373.0						
378.6 373.8 378.1 373.8 378.0 373.6 378.0 373.6 377.0 373.0					374.0	
km 373.6 377.0 373.0		378.6			373.8	
378.0 373.6 m km 377.0 373.0 km					373.8	
377.0 373.0		378.0				m
					373.0	
376.7 372.0 376.5 376.5 371.5						

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	371.0	n		362.2	() P
	370.1	<mark>)</mark>		362.0	km La
	870.0	n	R	361.2	R
	k n 369.0	n	R	361.0	km
	k n 368.0	n		360.0	km
	367.3			359.0	km
	kn 367.0	n		358.1	
	366.9			358.0	km La
	366.8			357.0	km La
	366.6			356.0	km
	366.3			355.0	km
	366.0	n		354.0	km
	kn 365.0	n		353.0	km La
	kn 364.0	n 🌔		352.0	km La
	363.6			351.0	km L
	363.2			350.0	km L
	kn 363.0	n		349.0	km L
	362.8			348.0	km La

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	km 347.0			335.0	n
	346.0			334.0	z 💿 km
	345.0 km	km 🕒		334.0	
	345.0			333.0 kr	n
	844.0			332.0	n
	343.5			331.5	<u> </u>
	km 343.0			331.0	n
	342.8			330.3	
	342.2	>		330.0	n
	km 342.0			329.1	l •
	km 341.0			329.0	km
	340.0	km		328.6	
	km 339.0			328.3	
	km 338.0			328.0	n
	337.2	>		327.9	
	837.0			327.7	
	336.7			327.0	n
	km 336.0			326.9	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	km 326.0			817.0	n
	325.8		M	316.8	2
	325.5			316.6	
	825.0		X	316.5	3
	324.9	<u> </u>	_	316.1	
	km 324.0			816.0	n
	▲ 323.0 km			315.0	
	322.1			314.0	n
	822.0 km		kr L	n 313.0	
	321.7			312.9	
	321.3	I	2	312.8	
	321.0 A			312.5	
	320.8		2	312.1	n
	320.5	km		312.0	
	320.0			311.8	<u> </u>
	319.0 km			311.3 k r	n
	318.0			311.0	
	317.1			310.9	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rk	m LEFT BANK
	310.8		km	9 302.0	
	km 310.0			302.0	
	309.3			301.0	km
	309.0	km		300.5	
	308.5			300.0	km
	308.0			299.8	2
	307.5			299.5	<u> </u>
	307.4			299.0	<mark>∕ km</mark>
	307.0 km			298.0	km La
	306.6			km 297.0	
	306.4	•		296.6	
	km 306.0 لم			296.0	
	305.0			295.0	
	304.7	1 100		294.6	
	304.0	km	km	294.0	
	303.5			293.7	
	303.2 km	1		293.0	
	303.0			292.3	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	292.0	1		278.0	km
	291.2			277.1	•
	291.0 A			277.0	km
	k m 290.0			276.8	•
	289.0 🛛			276.5	
	288.5			276.4	
	km 288.0			276.0	km A
	• 287.0 km			275.8	
	286.0			275.4	
	285.0	-		275.2	
	284.0] 		275.0	(m
	283.0	•		274.0	(m
	282.0 🗐	-		273.0	
	281.0 🛛			272.5	<u> </u>
	280.0			272.0	
	279.9			271.6	
•	279.6			271.0	(m
	279.0			270.0	km

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	kr	n			
	269.0]		257.5	
	268.7)		257.0	
	268.0	n		256.7	
	267.0 ×	n	4	256.4	
	266.0	n		256.0 km	1
				kn	1
	265.7 kr	n		255.0	
	265.0			254.9	
	264.0	n		254.0	
	263.0			253.0	
	262.9			252.0 km	1
	262.7	3		251.0 km	
	262.5			kn	1
	kr	n 📉		250.0	
	262.0	i •		249.9 km	1
	261.6 k r	n		249.0 km	
	261.0			248.0	
	260.0	n		247.0	1
	259.0	n	4	246.0	
	258.0 L	n	km 🚽	245.0	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
]	km 244.0			229.0 ×	n
				228.6	N
	243.7 V			1	
	243.0 km	•		228.4	
	242.0			228.2	
	241.0		2 -	228.1	
	240.0 ×			228.0 kn	
	239.0 L		E	227.5	
km	238.0			227.3	
	237.0 L			kn 227.0	n
	236.0			226.9	N
	235.0 Z			226.4	
	234.5		III P	kn	ı
	km			226.0 kn	ı
	234.0 🖌			225.0	
	233.0 km			224.9 kn	n
	232.0 🖵	-	_	224.0	_
	231.0			223.2	
	230.4			223.0	km La
	230.0 km	3	-	222.2	

km 211.0 km 221.4 \checkmark 210.7 221.0 \checkmark 210.7 221.0 \checkmark 210.0 221.0 \checkmark 210.0 221.0 \checkmark 220.0 220.0 \checkmark 220.0 200.0 \checkmark 220.0 200.0 \checkmark 220.0 210.0 \checkmark 220.0 211.0 \leftarrow 220.0 211.0 \leftarrow 201.0 211.0 \leftarrow 201.0 211.0 \leftarrow 201.0 211.0 <	RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
221.4 A 210.7 221.0 Km 210.0 Km 221.0 220.0 Km 210.0 Km 220.0 Km 209.0 Km 220.0 Km 208.5 208.5 219.7 208.0 Km 207.0 219.0 Km 207.0 Km 219.0 Km 206.0 Im 219.0 Km 206.0 Im 216.0 Km 206.0 Im 216.0 Km 206.0 Im 216.7 Km 206.0 Im 216.7 Km 206.0 Im 216.0 Im 206.0 Im 216.0 Im 201.0 Im 216.0 Im 201.0 Im						1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					_	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		km			km	1
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		221.0				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			-			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				•	208.5	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Â	>			1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				km 🚅	208.0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		219.0			207.0	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					206.0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					206.0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		217.0		kn		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			I			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					204.0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		215.5				n
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		km				1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			-			
$\begin{array}{c c} & & & & & & \\ & & & & & \\ \hline & & & & & \\ \hline & & & &$						
$\begin{array}{c c} & & & & & & \\ & & & & & \\ \hline & & & & & \\ \hline & & & &$		213.8			201.8	
212.0 200.2 C				kn		
212.0 200.2					201.0	
km km		212.0			200.2	
211.5 200.0						1

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	km 199.0			183.4	
	km _{198.0}			183.3	<u>र</u> •
	km _{197.0}			183.1	
	km 196.0			183.0	n
	195.0			182.0	m
	194.0			181.0	n
	193.0		1	km 	
	192.0			179.7	
	km 191.0		1	km 179.0	
	190.7			178.7	
	km 190.0			ki	n
	km 189.0			177.0	km
	km 188.0			176.9	-
	187.0	VHF 16	L .	km 176.0	
	187.0 km			175.2	
	km 185.0			k	n
	 184.3 				
	184.0			174.8 kt	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	173.4			km 160.0	
	173.0 🗐			km 159.0	
	172.4			km 158.0	
	km _ 172.0			km 157.0	
	VHF 171.5			km	
	171.0 🗐			155.6	
	170.0 🖉			km 155.0	
	km 169.0			kn 154.0	n
	km 168.0			153.0	
I	km 167.0			152.0 A	1
	166.0 km			km 151.0	
	165.4			km 150.0	
	km 165.0			kn 149.0	n
	km 164.0			148.0	1
	km 163.0			147.0	1
	162.0 km			146.0	1
	161.4			kn	ı
	km 161.0			145.0 A	ı

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	143.0	n		135.7	P
k	m - 142.0			135.0 km	1
k L	m 141.0		<u>.</u>	134.8	
k	m - 140.0		<mark>↓</mark> ►	134.4	_
	139.9			134.0 km	1
	139.3			133.0 km	
k	m ⊿ 139.0			132.0	
	138.9	— 11		131.0 🖉	
	138.9			130.0	
	138.8			129.0 🗐	
	138.5			128.0 L	
	138.4			127.0 🗐	1
	138.1	2		126.0	
	m 138.0			125.0 km	
	m a 137.0			124.0	
1	136.6	•	kn	123.0	
	136.0	J 		122.0 km	
	135.9			121.0 A	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distar	nce rkm	LEFT BANK
	km 120.0			km	9.0	
	119.0 Km				8.4	
	km			km 10		
	118.0 🖾			10	7.5	
	117.0 km			km		
	116.0 🗖]		10	7.0	
	115.0 km	-		10	7.0	
	114.0				6.2	
	km 113.0			L L	6.0	
	112.5			km 10	5.0	
	km 112.0		•		4.5	
	111.1			4	4.0	
	km 111.0			km 10	3.0	
	110.7			10	2.4	
	110.6			km	2.0	
	110.3			km	1.0	
	110.2			10	0.9	
	km 110.0			km	0.0	
	109.3			99	1	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	km 99.0			km 91.0	
	98.9			90.1	
	98.5			km 90.0	
•	98.4		km	89.0	
	98.0			89.0	
	km 98.0			88.6	
	97.8			kn 88.0	1
	97.3			87.8	_
	97.2			kn 87.0	1
	km 97.0			86.1	
	96.9	•		km 86.0	
	km 96.0			km 85.0	
	km 95.0			km 34.0	
	km 94.0		km	83.0	
	93.6			82.3	
	km 93.0			82.0	
	km 92.0			81.0	km L
	91.3	•		81.0	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	80.0 km			67.0	
	km			km 66.0	
	79.0	`		km 65.0	
	78.3 km			km 64.0	
	78.0 km			km 63.0	
	77.0 km			km _{62.0}	
	76.0			km	
	75.3 km	<u> </u>		61.0	
	75.0	>		60.0 km	
	74.2			59.0	
	74.1			58.6 km	
	74.0			58.0	
	◆ 73.0			57.3 km	7
	72.8 km			57.0 🖌	•
km	72.0			56.0	
km	71.0			55.9	
	km 70.0		-	55.4	
	km 69.0			55.0 km	
	68.0			54.6	

IGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	km 54.0			km 40.0	
	km 53.0			km 39.0	
	km 52.0			km 38.0	
	km 51.0			km 37.0	
	km 50.0			36.0	m
	49.0			35.3	
	48.3			k	m
	48.0	1			m
	kn	1		k	m
	47.0	km			
	46.0 kn	1			m
	45.0 A	1		32.0	
	44.0			31.0	
	ľ kn	1		30.8 km	
	43.0			30.0 km	
• •	42.5			29.0	
	km	لأك		28.2 km	
	42.0 km 41.0			28.0 27.9	

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
km	27.0			15.5	
	km km 26.0			15.4	N ++
km	➡ 25.0			15.4	1 + +
	24.3			15.4	
	24. 0			15.3	
	23.0 A			15.1	<u> </u>
	22.0			15.0	km
	21.0 🖉			15.0	V
	km 20.0				im A
	19.6				im
	19.3			12.6	
	km 19.0			k 12.0	
km .	18.0				im A
	R 17.6				im A
	17.0 km				ím A
	16.5				ím A
	16.2			7.6	
	16.0 km		11 👫	→ 7.4	×

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	7.4			2.6	
	kn 7.0	n	N	• 2.5	
	6.3			2.0	n
	€.0	km		1.6	
	6.0		N	• 1.5	
	5.8	2		• 1.4	
	<mark>kn</mark> 5.0			1.0	n
	5.0			() 0.9	5
	5.0		III 🗲	P 0.7	
	<mark>kn</mark> 4.0	n	(II	0.7	
	3.9	♪ ◆		0.7	
	3.6			0.5	
	3.2			0.4	
	3.1			0.2) II
 	3.0			0.0 k	m J
	km _{3.0}				
	• 2.8				
•	• 2.7				

2.3. **KUPA RIVER RIGHT BANK** LEFT BANK RIGHT BANK **Distance rkm** Distance rkm LEFT BANK km km 140.0 70.0 km km 139.0 65.0 km km 60.0 138.0 km km L 137.0 55.0 km кm 136.0 50.0 km km 135.0 45.0 km km 130.0 40.0 km km 125.0 35.0 km km 30.0 120.0 km km 115.0 25.0 km km 110.0 20.0 km km 105.0 15.0 km km 100.0 10.0 km km 95.0 9.0 km km 90.0 8.0 km km 7.0 85.0 km km 80.0 6.0 km km 75.0 5.0

RIGHT BANK	Distance rkm	LEFT BANK	RIGHT BANK	Distance rkm	LEFT BANK
	4.5) () 			
	4.0				
	3.5	•			
	km 3.0				
	km 2.0 €	•			
	1.9				
	1.8				
	1.5				
	1.1				
	km 1.0				

2.4. SUMMARY OF USED MARKING SIGNS BY TYPE

SAVA RIVER	rkm 594,0 – rkm 0,0	Croatia	B&H	Serbia	All
Type of signs	Description				Sum
Main signs for waterway marking	Prohibitory, mandatory, restrictive, recommendatory, informative signs	112 55		145	312
Buoyage of the waterway	Buoys with light, Buoy without light, Floats and spars	78	65	43	186
Marks on land indicating the position of the fairway in relation to the banks	On the water, banks, with lights and without lights	46	34	23	103
Signs for marking danger points and obstacles	Unlighted bank mark	1	4	18	23
Additional marking for navigation by radar	Radar reflectors on the bridge piers	0	10	16	26
Signs on the water for marking broad waterways and lakes		0	0	0	0
Extraordinary signs	Kilometer mark	253	149	196	598
	Σ	490	317	441	1248
KUPA RIVER	rkm 5,0 – rkm 0,0				
Type of signs	Description				Sum
Main signs for waterway marking	Prohibitory, mandatory, restrictive, recommendatory, informative signs	6			6
Buoyage of the waterway	Buoys with light, Buoy without light, Floats and spars	4			4
Marks on land indicating the position of the fairway in relation to the banks	On the water, banks, with lights and without lights	0			0
Signs for marking danger points and obstacles	Unlighted bank mark	0			0
Additional marking for navigation by radar	Radar reflectors on the bridge piers				
Signs on the water for marking broad waterways and lakes					
Extraordinary signs	Kilometer mark	40			40
	Σ	50			50
	Σ (Sava and Kupa)	540	317	441	1298

2.5. EXPLANATORY NOTES

Note from Croatia

A marking plan on the Sava River from km 594.0 to km 343.0 for the year 2025 was prepared on the grounds of the actual state of the waterways and navigation safety objects on the Sava River, as well as the perceived morphological changes of the riverbed.

While preparing the Marking Plan, all valid regulations and rulebooks related to navigation on inland waterways of the Republic of Croatia, Bosnia and Herzegovina and the Republic of Serbia, as well as the decisions of the Sava Commission, were taken into account.

All changes to the Marking Plan that are to be performed during the year, as well as the information on the waterway state, will be timely addressed through the official state institutions to the authorized bodies for navigation safety – Port Masters Offices – which will further inform all other navigation actors by the Notices to Skippers (NtS) about the changes that have arisen.

All changes in the Marking Plan will be promptly presented in the appropriate application on the Sava Commission website.

In the overview of the Marking Plan for the Sava River waterway from rkm 594 to rkm 343 (in the ISRBC web application for waterway marking), it is not possible to archive the following marks that have been removed: rkm 425+100 on the right bank – 4.A (Channel near the right bank with light), rkm 376+500 on the left and right bank – A6. (No anchoring or trailing of anchors, cables or chains) and rkm 376+ 400 on the left and right bank A6. (No anchoring or trailing of anchors, cables or chains). In the summary overview, the mentioned signs have not been counted.

Note from Bosnia and Herzegovina

The BiH side has provided no information.

Note from Serbia

The marking Plan and Program of maintenance of the marking system on the Sava River from rkm 210,8 to rkm 0,0 (through the Republic of Serbia) for the year 2025 were prepared on the grounds of the actual state of the waterways and navigation safety objects on the Sava River, as well as the perceived morphological changes of the riverbed.

All valid regulations and rulebooks related to navigation on inland waterways of the Republic of Serbia, as well as the decisions of the Sava Commission, were taken into account for the preparation of the Marking Plan.

All changes to the Marking Plan that are to be performed during the year, as well as the information on the state of the waterways, will be timely addressed through the official state institutions to the authorized bodies for navigation safety – Port Masters Offices – which will further inform all other navigation actors by the Notices to Skippers (NtS) about the arisen changes.

All changes in the Marking Plan will be promptly presented in the appropriate application on the Sava Commission website.

3. REGULATION MEASURES PLAN FOR THE MAINTENANCE OF REQUIRED DIMENSIONS OF THE SAVA RIVER FAIRWAY

3.1. MAINTENANCE OF DEFINED PARAMETERS OF THE FAIRWAY

3.1.1 Dredging works planned in Croatia

Name of the sector	Section	Dredging quantities (m ³)	Bank side	Comment
Lonja - Strmen	552,0 - 556,0	30.000	LB/RB	Dredged material is to be disposed of along the LB and RB
Dolina	445,5 - 449,5	30.000	LB/RB	Dredged material to be disposed of along the LB on the Croatian side

3.1.2. Dredging works planned in Bosnia and Herzegovina*

Name of the sector	Length of the Section (m)	Dredging quantities (m ³)	Bank side	Comment
Ušće Ukrine	3,150	46.487,93	RB	Execution of works in progress. Deadline for contract implementation: June 30, 2025
Kej Luka	1400	9.458,85	RB	Execution of works in progress. Deadline for contract implementation: March 30, 2025
Begov put	670	238.519,41	RB	Execution of works in progress. Deadline for contract implementation: May 31, 2025

*Public Institution "Vode Srpske" and Sava River Watershed Agency deliver information on planned dredging works. The data provided are in line with the Protocol on Sediment Management to the FASRB to ensure sustainable sediment management for the water regime maintenance.

To some extent, such dredging works will be executed in the Sava River fairway, serving as waterway maintenance activity. For next year's Plan, particular attention will be paid to distinguishing quantities related to the waterway maintenance from those for the overall sustainable sediment management.

3.1.3. Dredging works planned in Serbia

Commercial dredging will be regularly performed on the Sava River following new relevant procedures ("Rulebook on the establishment of the river sediment extraction plan" - "Official gazette RS", No. 112 / 2023-12-05). Those procedures include conditions prescribed, among others, by the MCTI-Directorate for inland waterways. They are created bearing in mind morphological changes in the riverbed and fairway position and its required class. Therefore, additional dredging quantities with dual purposes (for works of public importance and fairway maintenance) will be performed in 2025.

3.2. MAINTENANCE OF EXISTING AND CONSTRUCTION OF NEW RIVER ENGINEERING STRUCTURES

3.2.1. Construction works planned in Croatia

The Agency for Inland Waterways, i.e. the Ministry of the Sea, Transport and Infrastructure, does not plan works on constructing and maintaining navigation security facilities in 2025. However, particular works on bank regulation - restoration and construction of the embankment – have been planned by Croatian Waters in the program's framework to protect against the harmful effects of water.

3.2.2. Construction works planned in Bosnia and Herzegovina

No information on the construction of new or maintenance of existing river engineering structures on the BIH side has been provided for 2025.

3.2.3. Construction works planned in Serbia

No work on the maintenance of existing or construction of new river engineering works has been planned to maintain the required dimensions of the Sava River fairway in 2025.