

# WATER MANAGEMENT IN B&H/FB&H

Bosnia and Herzegovina is a country rich in water resources. However, the level of pollution from urban and industrial wastewater, agricultural practices, excessive groundwater extraction, water usage methods, and the evident impact of climate change represents the greatest challenge for the preservation and improvement of the current state of water resources in B&H.



## MODULE 3: WATER MANAGEMENT IN B&H/

- Module 3 of the Summer School focuses on water resource management in B&H, with a particular emphasis on current challenges and strategies. The program includes a lecture by a renowned expert from UNDP and visits to key institutions involved in water management – the Sava River Basin Agency (AVP Sava) and the Federal Hydrometeorological Institute (FHMZ).



# Lecture by a Guest Expert from UNDP

## Sustainable Management and Protection of Natural Resources in B&H

### Current Projects

United Nations Development Programme (UNDP) in Bosnia and Herzegovina, with the support of the global UNDP network, has been assisting Bosnia and Herzegovina in attracting and utilizing international aid since 1996. UNDP in Bosnia and Herzegovina, together with its partners, works on raising public awareness about climate change, environmental protection, and water conservation.



⇒ UNDP in Bosnia and Herzegovina has launched the initiative "Every Drop of Water Matters!" aimed at raising awareness about the immense importance of water, as well as water consumption and conservation.

### UNDP: Mape opasnosti i rizika od poplava prvi put dostupne u BiH

Donosiocima odluka ovim je olakšano određivanje prioriternih mjera za smanjenje šteta od poplava



⇒ The general objective of the MEG 2 project is to contribute to the democratization of local governance in Bosnia and Herzegovina and to ensure fairer, more effective, and more efficient public services for citizens, particularly in the areas of water supply and wastewater man-



Agencija za vodno područje rijeke Save

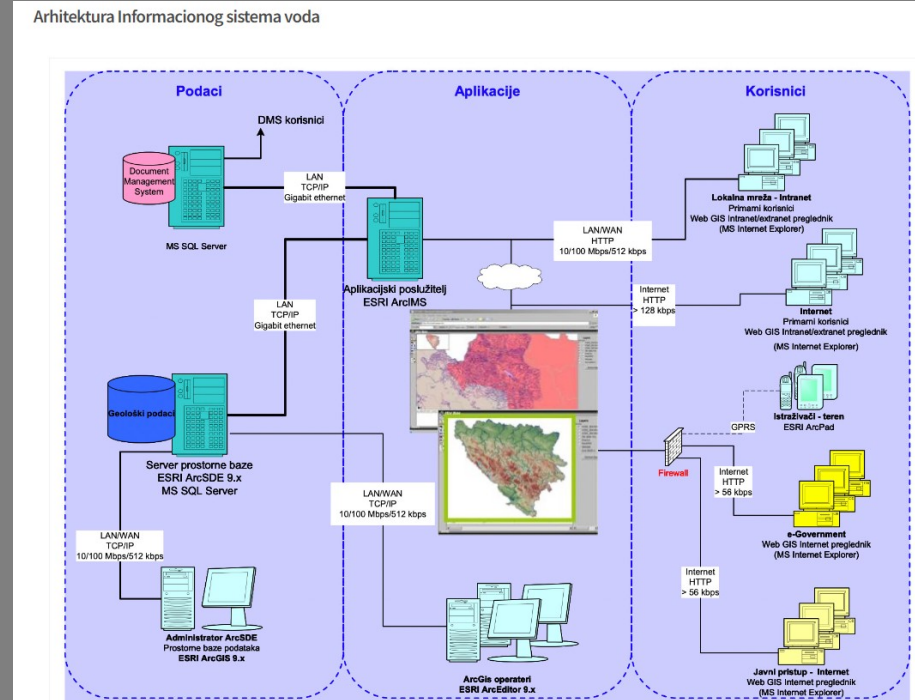
SARAJEVO

# AGENCY FOR THE SAVA RIVER BASIN

In Bosnia and Herzegovina, there is a long-standing, almost century-old tradition of state authorities and organizations established and entrusted with the responsibility of water management.

- The Agency for the Sava River Basin is responsible for water management within its basin, and its activities include:
- Planning and management of water resources
- Monitoring and regulation of watercourses
- Preparation of hydrological analyses and flood protection plans
- Maintenance and improvement of hydrological monitoring
- Control and enhancement of water quality

During the visit, participants will have the opportunity to learn about the Agency's work, its projects, and past activities.





# FEDERAL HYDROMETEOROLOGICAL INSTITUTE

The Federal Hydrometeorological Institute (FHMZ) of Bosnia and Herzegovina is responsible for collecting and analyzing hydrological and meteorological data, which are crucial for water management. Its activities include:

- Monitoring the hydrological regime of rivers and water bodies
- Measuring and analyzing precipitation, flow, and water levels
- Managing databases and exchanging information with domestic and international institutions
- Developing flood early warning systems
- Providing expert data for the needs of industry and science

During the visit, participants will see how hydrological data is collected and analyzed, as well as how the FHMZ contributes to water resource management in Bosnia and Herzegovina.



## AUTOMATSKE STANICE

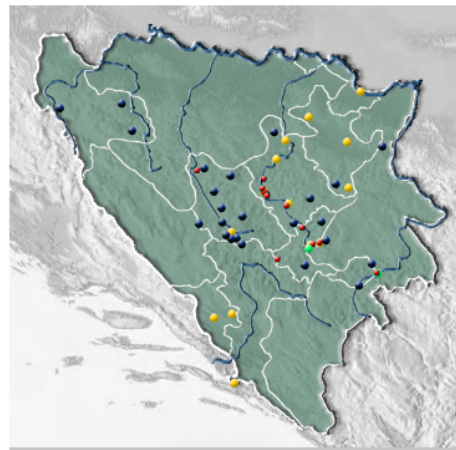
Podaci se automatski objavljuju sa mjernih mjesta i nisu kontrolirani i validirani

početna sinoptika automatske stanice

### PADAVINSKE AUTOMATSKE MJERNE STANICE

datum: 18.03.2025

sat	grad	temp (°C)	vlažnost (%)	kol.padavina (mm)
04:00	Divičani	-2.4	79	
04:00	Dobroštin	-2.2	62	
04:00	Gornji Kamengrad	0.4	60	
04:00	Gračanica kod Bugojna	-2.4	71	0.1
04:00	Kupres			
04:00	Pidriš	-5.5	83	0.1
04:00	Rat	-7.1	99	0.2
04:00	Ripač	0.5	57	
04:00	Rovna	-5.2	86	
04:00	Šeherdžik	-2.3	72	



Federalni hidrometeorološki zavod

## KOLIČINA PADAVINA (mm) IZMJERENA U PROTEKLA 24<sup>h</sup>

početna sinoptika količina padavina

18.3.2025.

Kad govorimo o dnevnoj količini padavina mislimo na količinu padavina od 7 sati jučer do 7 sati danas (SEV), tj. na protekli 24-satni period. Ta se količina padavina bilježi u dnevnik osmatranja kao količina padavina za dan kad je mjerenje obavljeno.

Na glavnim meteorološkim stanicama mjerenje količine padavina može biti i češće zavisno o programu rada. Osim mjerenja u 7 sati svakog dana na glavnim stanicama mjeri se padavina i u 1, 13 i 19 sati po SEV-u.

Bez obzira na to jesu li osmatrači primijetili da je tokom protekla 24 sata padala padavina ili ne, treba svaki dan u 7 sati vidjeti ima li u kišomjeru padavina i to tako da isprazne kanticu kišomjera u menzuru. U hladnom dijelu godine može se pojaviti slučaj da se zbog niskih temperatura padavina zalede. Sumnja li osmatrač da je to moguće, treba cijeli kišomjer zamijeniti rezervnim, a zaleđeni odnijeti u zatvorenu prostoriju i pričekati da se padavina otopi, a zatim kao obično izmjeriti količinu padavina i upisati u dnevnik kao da je izmjerena ujutro.



## MEĐUNARODNI PROGRAMI

početna saradnja međunarodna programi

- EUMETSAT - Svjetska meteorološka organizacija
- MedCOF - Forum o mediteranskoj klimi
- PEP725 - Europska fenološka baza podataka
- IPG - Međunarodni fenološki vrtovi
- SEECOP - Konzorcij Jugoistočne Europe za operativno predviđanje vremena
- SEECOF - Forum Jugoistočne Europe o klimatskim izgledima