



INFORMAL CONFERENCE OF SOUTH-EAST EUROPE DIRECTORS

Hosted by
Israel Meteorological Service
(IMS)



Activities between two
meetings and present actions

Republic Hydro-Meteorological
Service of Republika Srpska
(one of two entity hidrometeorological services
in Bosnia and Herzegovina)





FOCUS ON whole institution

GENERAL ISSUES OF INSTITUTION

- ✓ **New systematization of workplaces will be approved in november**
 - more workplaces for experts in all areas by reducing number of manager positions

- ✓ **the problem of leaving professional staff**
- ✓ **budget for 2019 year is 12% higher than 2018, still small but we make a progress**
- ✓ **We have received 60% more funds to maintain equipment than 2018 year, but it is still insufficient for all sectors**



FOCUS ON whole institution

NEEDS AND MISSED GOALS:

- ✓ **the lack of work space (we are located in two small buildings) for employees and equipment, servers that come through projects)**



the director has initiated a new initiative with the ministry of agriculture, forestry and water management to build a new building that will solve problem with working space for employees and also for equipment and servers

- ✓ **urbanization of the area around the main meteorological station and the need to move it to a new location**
- ✓ **New website have been launched at the beginning of the 2019 year**





FOCUS ON whole institution

So far, the project has made the following:

**Radar on Borje DWSR-3501C has been in operation since June 2017
and this year was technical reception**

**The facility on Jahorina for radar of the same type is in the final stage
of construction**

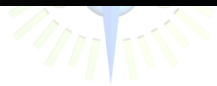
**Automatic counter-launchers are parallel in the north-west of RS and
Herzegovina. 10 were in function in Laktaši and were built in Prijedor,
Dubica, Novi Grad and Gradišci, 4 are in function in Trebinje and until
the new year 10 in Herzegovina**

**The center was built in Trebinje and the construction of the center in
Bijeljina begins**

Installation of 50 automatic meteorological station are in progress



FOCUS ON whole institution



**FOCUS ON** action within BiH through Ministry of Civil Protection**INITIATIVE:****EUROPEAN CENTRE FOR
MEDIUM-RANGE WEATHER FORECASTS**

Europäisches Zentrum für mittelfristige Wettervorhersage | Centre européen pour les prévisions météorologiques à moyen terme

Our Ref: DG/17-181
Date: 28 June 2017Direct line: +44 118 9499001
E-mail: florence.rabier@ecmwf.intMr Adil Osmanović, Ph.D.
Minister
Ministry of Civil Affairs
Trg BiH 1, 71000 Sarajevo
Bosnia and Herzegovina

Dear Mr Osmanović,

It is with great pleasure that I can inform you of the unanimous decision of ECMWF's Council to authorise me to commence direct negotiations with the Government of Bosnia and Herzegovina about a future Co-operation with ECMWF, in accordance with Article 3.2(a) and Articles 6.1(e) of the ECMWF Convention.

The Council, at its 90th session on 21 and 22 June 2017, also approved the revised conditions for future Co-operation Agreements between ECMWF and candidate Co-operating States. It is my distinct honour to present these draft terms in the enclosure.

I am very much looking forward to hearing from you and to engaging in fruitful discussions.

Yours sincerely

Dr Florence Rabier
Director-General



FOCUS ON action within BiH through Ministry of Civil Protection

INITIATIVE:

- ✓ **Bosnia and Herzegovina Co-operation Agreement with  ECMWF "for eventual accession to the Convention".**

The history of attempts of B&H to become an associated member ECMWF dates back to 2015.

Last year, through the Ministry of Civil Affairs, we entered the negotiations, which were successfully completed. After that, this agreement gave to the B&H institutions to provide statement according to the procedure.

All institutions, **except the Ministry of Finance and Treasury of B&H**, gave a positive opinion on the Draft Agreement for concluding the Agreement on Cooperation between B&H and the ECMWF

We are in communication with Ministry of Civil Affairs and try to find funds to become associated member of ECMWF



PROJECTS



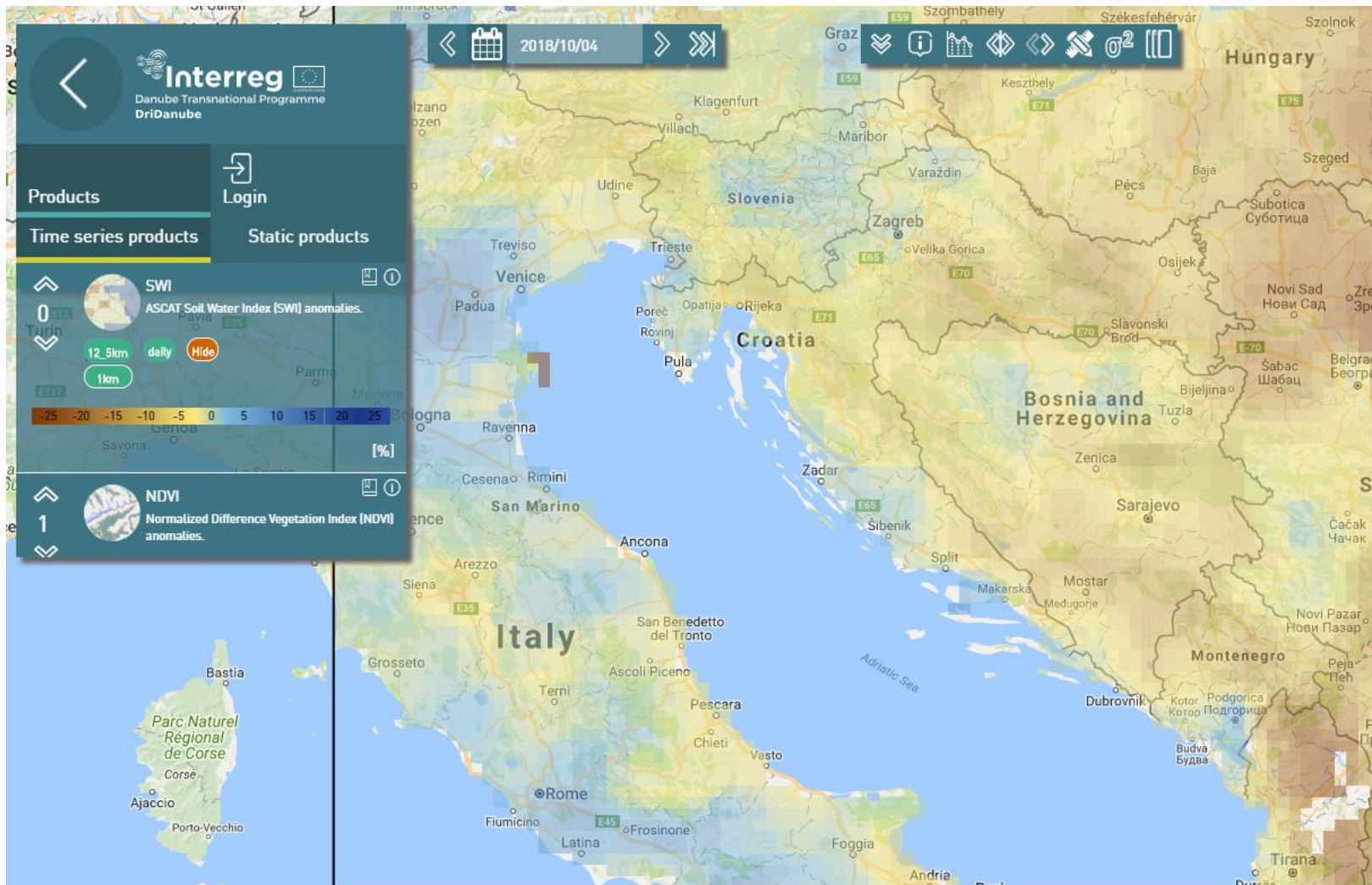
Drought 2017. in Republic of Srpska, Bosnia and Herzegovina

Republic Hydrometeorological Service of Republic of Srpska
 Ministry of agriculture, forestry and water management
 Agricultural institute of Republic of Srpska

DriDanube – Drought Risk in the Danube Region
 Project co-funded by European Union funds (ERDF, IPA)



PROJECTS





PROJECTS



- ✓ Successfully finished activities on DriDanube project
- ✓ Two national seminars organized in Teslic on december 2018 and Trebinje on april 2019
- ✓ Promotion of the project at scientific meetings related to agriculture, as well as agricultural fairs
- ✓ In next period start activity on strategy to fight negative effects caused by drought in collaboration with Ministry of Agriculture





FOCUS ON AGROMETEOROLOGY

PROJECTS



Partners: Ministry of agriculture, forestry and water management.
 Republic Hydro Meteorological Service of Republic of Srpska
 Hail suppression and prevention of the Republic of Srpska



МИНИСТАРСТВО ПОЉОПРИВРЕДЕ,
 ШУМАРСТВА И ВОДОПРИВРЕДЕ РС
 Ресор за пружање стручних услуга
 у пољопривреди



РЕПУБЛИЧКИ ХИДРОМЕТЕОРОЛОШКИ ЗАВОД
 РЕПУБЛИКА СРПСКА

REPUBLIČKI HIDROMETEOROLOŠKI ZAVOD
 REPUBLIKA SRPSKA



ПРОТИВГРАДНА ПРЕВЕНТИВА
 РЕПУБЛИКЕ СРПСКЕ



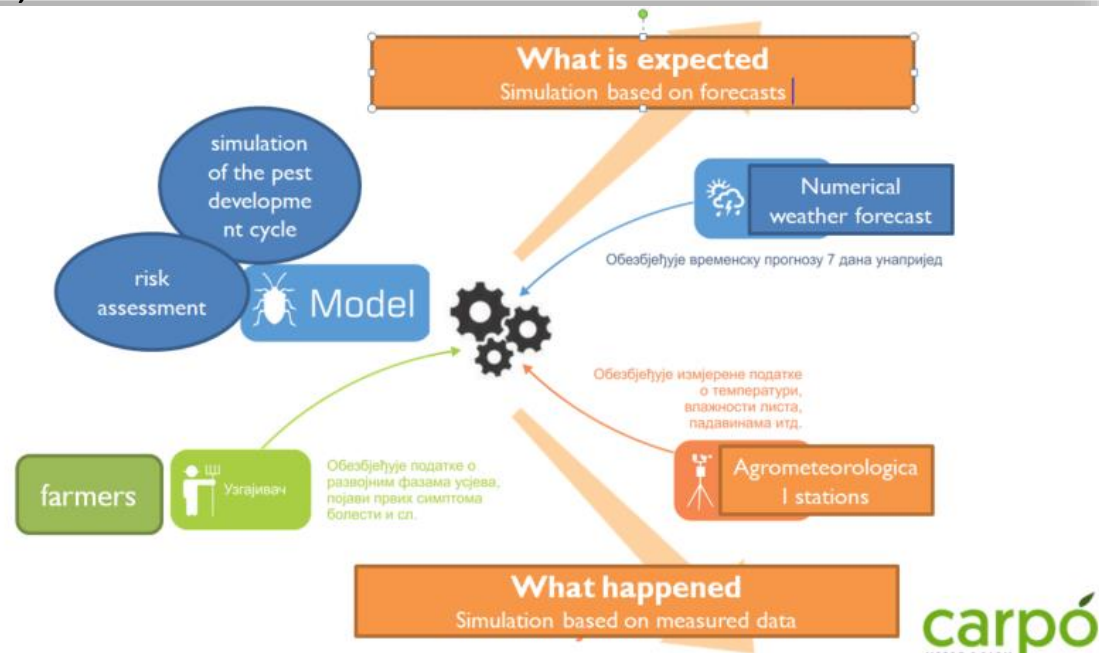
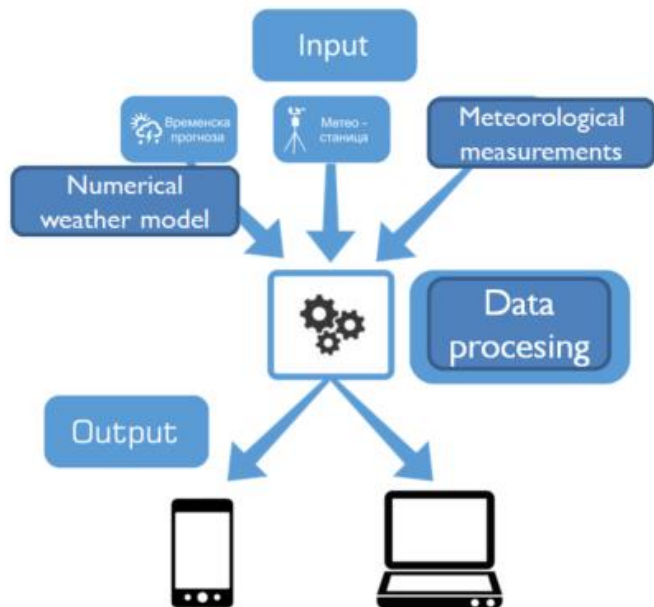


FOCUS ON AGROMETEOROLOGY



a forecast disease model for agricultural diseases and a model for drought where 50 agrometeorological stations was integrated

- ✓ Service based on the application of information technologies (ICT) in agriculture;
- ✓ Forecasting - Early Warning Service;
- ✓ A decision-making service (Decision-Aid Service);
- ✓ Dedicated to breeders, advisers, scientists.





FOCUS ON AGROMETEOROLOGY



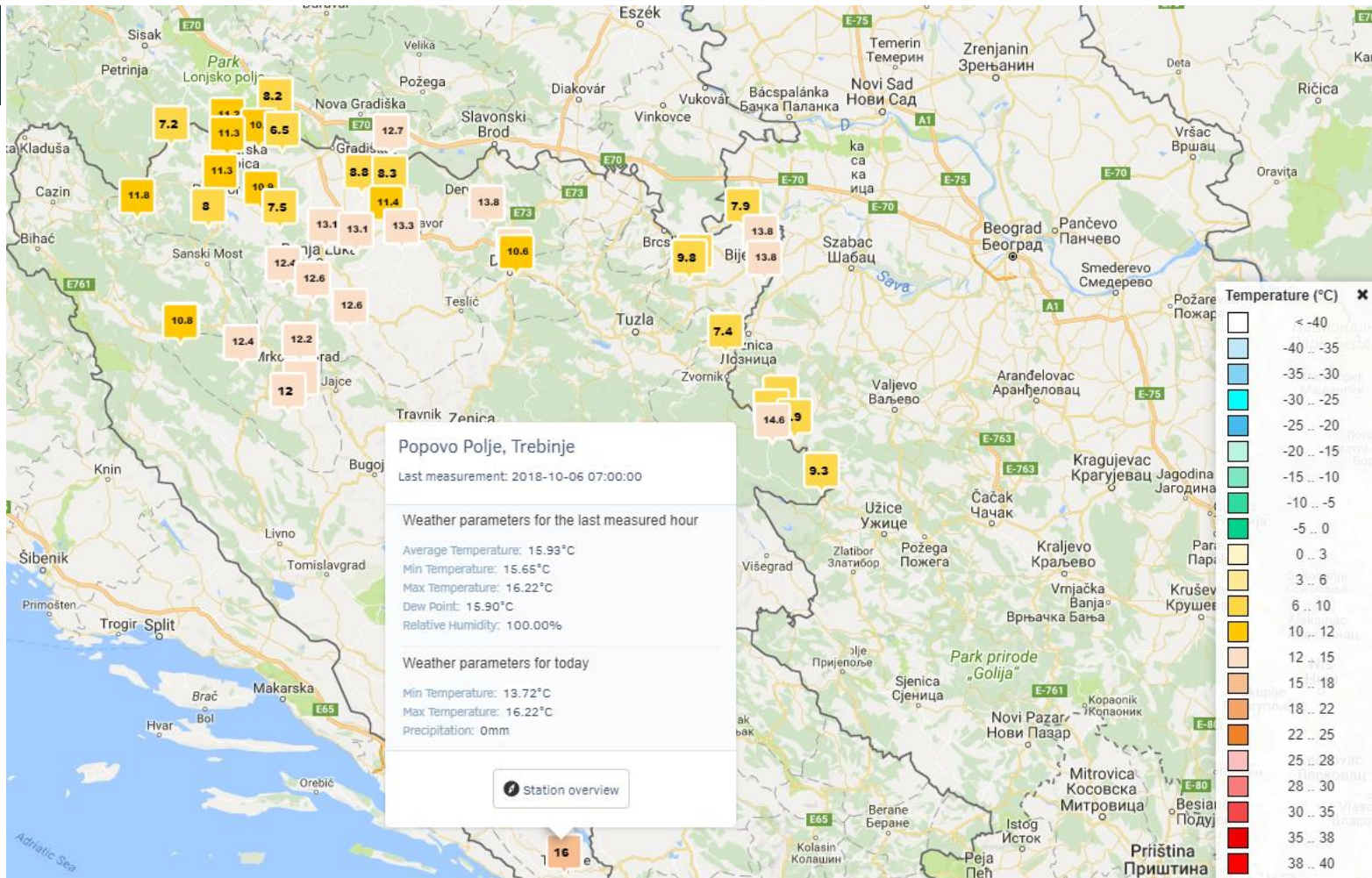
system supports 5 types of meteorological stations:

- iMetos (Pessl Instruments, Austria)
- Davis (Davis Instruments, USA)
- Vaisala (Vaisala, Finland)
- OTT (OTT, Germany)
- CEA (CEA, Italy)
- Possibility to add new types of stations to the system.





FOCUS ON AGROMETEOROLOGY





FOCUS ON AGROMETEOROLOGY



Donji Pridjel, Doboj

Info

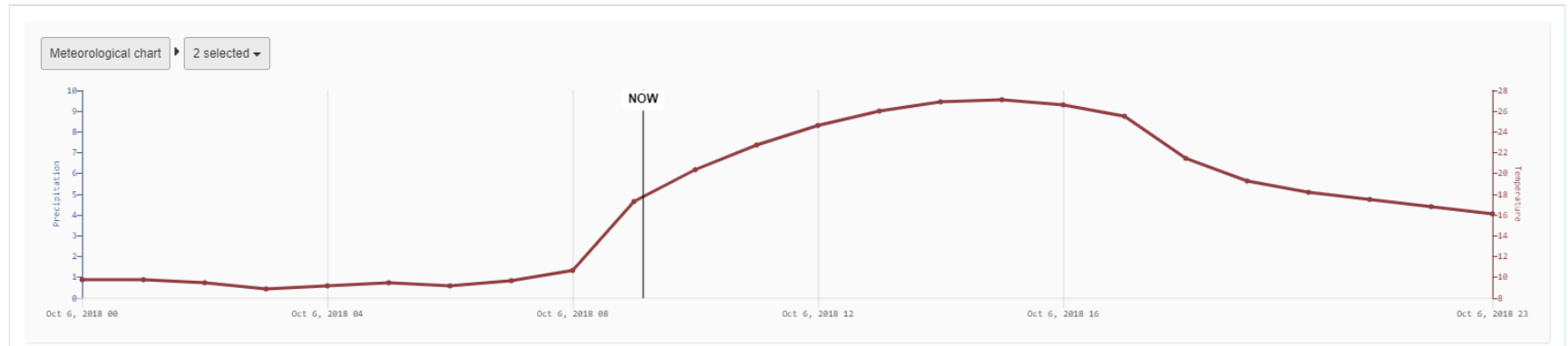
Last model execution	2018-10-06 06:01:09
Next scheduled model execution	2018-10-06 10:00:00
Last measurement	2018-10-06 08:00:00
Last forecast cycle	2018-10-06 02:00:00

[Report a disease](#)

Station Alerts Expert Recommendation

There aren't any notifications for this station at the selected time period.

Graphs Data Daily **Hourly**



To see models results, add a new graph and choose the model from the model drop-down list on the sidebar. Add a new chart



FOCUS ON METEOROLOGY AND HYDROLOGY

PROJECTS

Information about previous activities

- building the network of meteorological, precipitation and hydrological stations is FINISHED
- we have move meteorological station in Visegrad on new location that is better in many aspect
- also we looking to find best solution for reparation of meteorological station Cemerno (located on the watershed between Adriatic and Black Sea basin)
- building the network of hydrological stations on basin of rivers Drina and Bosna and establishing monitoring FINISHED. Through this project we acquire valuable equipment that will help for the future activities
- installed WISKI softver for processing hydrological data





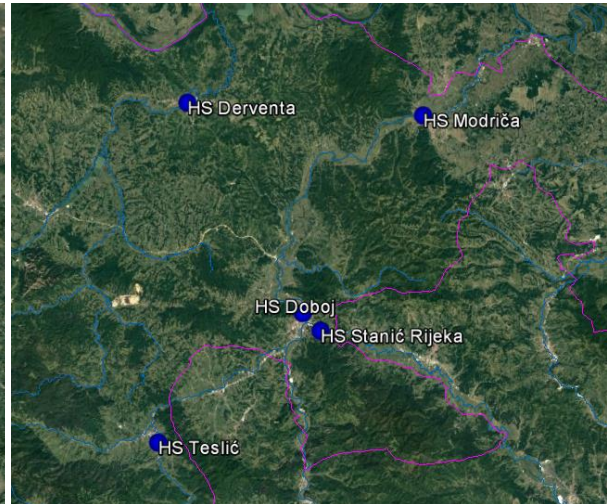
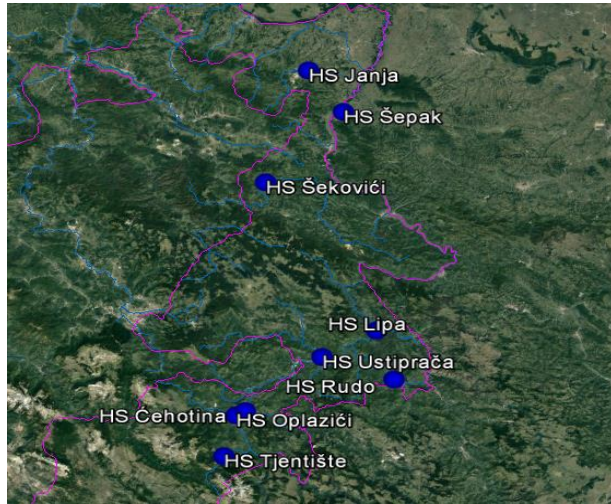
FOCUS ON ECOLOGY

Information about previous and future activities

- At the end of 2018 year ecological station in Prijedor was serviced from our budget
- In 2019 significant funds approved by Environmental and Energy Efficiency Fund RS to improve air and water quality monitoring.
- From that funds we will invest in service for one ecological stations in Banja Luka that will be fully operational and used for air quality monitoring
- We are part of few important project and major one is about Air Quality Improvement in B&H funded by Swedish government



FOCUS ON Bosna and Drina river:



31 automatic stations:
hydrological,
meteorological and
2 ultrasonic flow meters,
terrain vehicle and boat and
trailer for field
measurements.

**GEF/SCCF WBDRBM Global
Environmental Facility
Special climate change
found Drina River Basin
Management**

**EQUIPMENT IS A DELIVERED
PRESENT INSTALLATION**

Bosna river IPA 2015-2020

A Project Title "Support to Flood Protection and Water
Management,,

In the coming days, we expected delivery of the
remaining part of the equipment for the Sava River
Bosnia and Ukrina as well as the remaining part of the
equipment for field measurements





FOCUS ON Development of prognostic model :

FLOOD FORECASTING AND WARNING SYSTEM IN SAVA RIVER BASIN

- ✓ Active participation in the project
- ✓ Representatives of members of the working groups of the project
- ✓ Data exchange via the Sava HIS portal

VRBAS RIVER BASIN

- ✓ develops a hydrological and hydraulic forecasting model that start be operational in March 2019





FOCUS ON MAIN GOALS OF THE RHMS REPUBLIC OF SRPSKA

Summary:

- ✓ **B&H Presidency this year has announced that B&H will have permanent representative to WMO that will be rotated on an annual basis between FB&H and RS**
- ✓ The biggest problem remains finance, and how to convince the Government that it is necessary to extract more funds, since taking over many responsibilities and as it is to spread hydrological and meteorological observation network being necessary resources
- ✓ In near future RHMZ RS will strengthen departments with 3 technicians and one each expert in departments of meteorology, seismology and ecology. Also, through project EPTISA we have employ hidrology engineer





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Thank you for attention

Republic Hydro-Meteorological
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