



State Hydrometeorological Service of the Republic of Moldova



New activities between two meetings and Plans for the future



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State Hydrometeorological Service



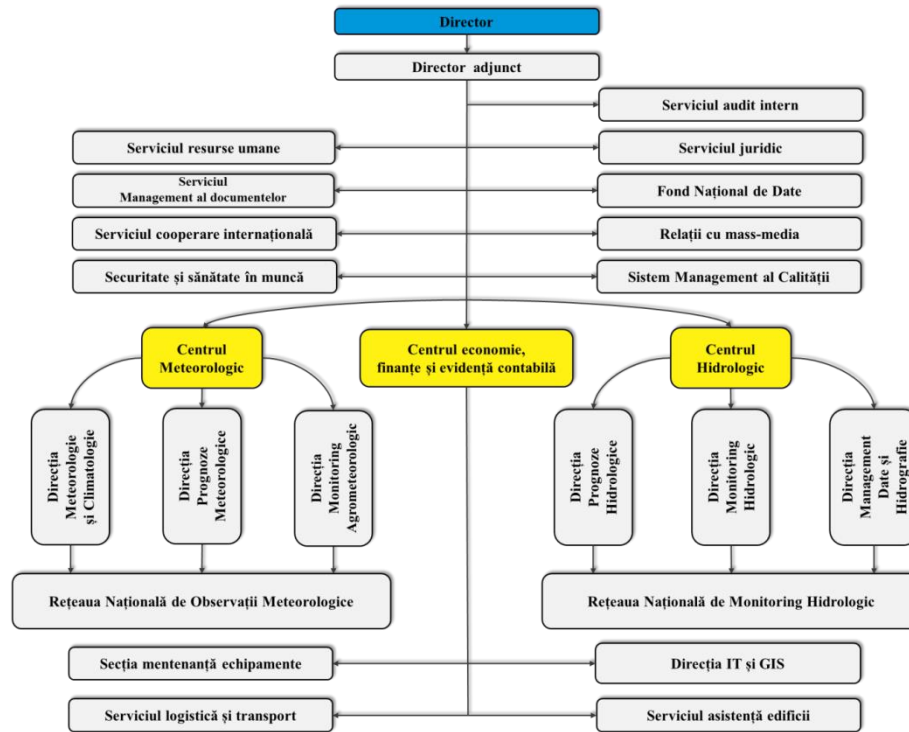
**The State
Hydrometeorological
Service is a public
institution subordinated
to the Ministry of
Agriculture, Regional
Development and
Environment**

General aspects

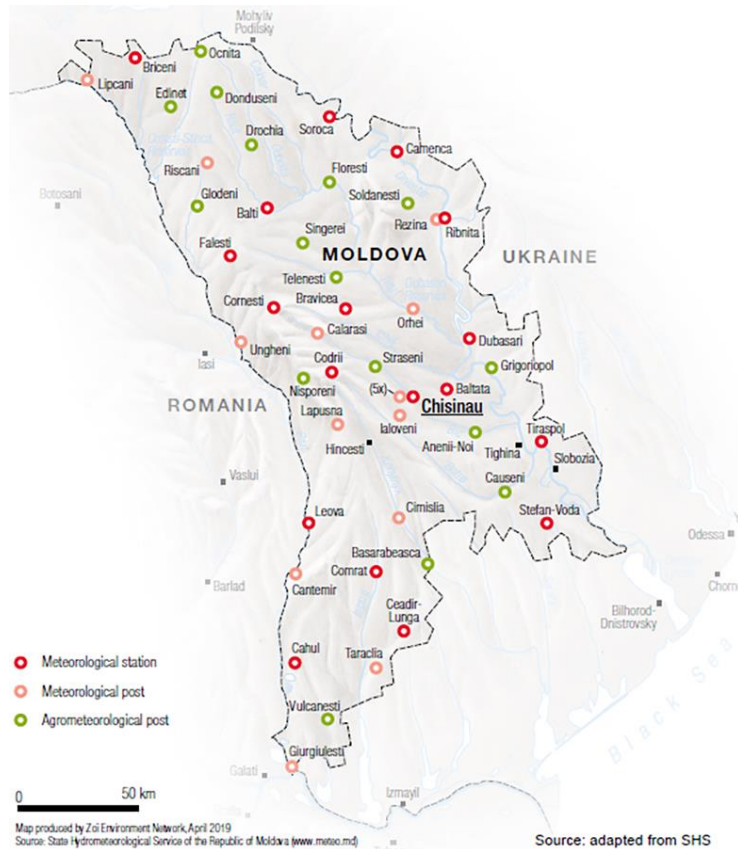
In the second half of 2018, there were changes in the structure of SHS as follows: Environment Quality Monitoring Department has been transferred to the newly created Environment Agency.

In the actual formula the Service comprises three main fields of activity:

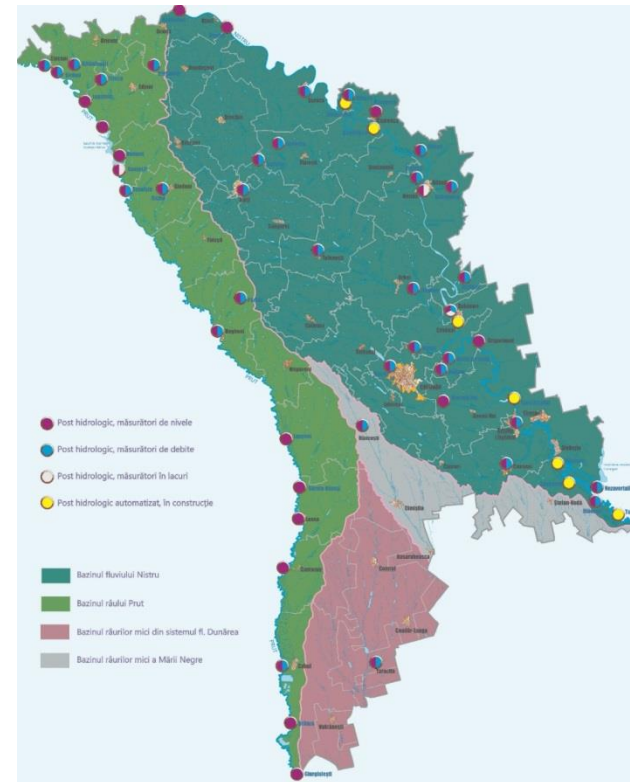
- Meteorology Center,
- Hydrology Center,
- Research and Development.



National network of meteorological and hydrological observations



18 – full meteorological stations (14 AWS)
32 – mini AWS
16 – agrometeorological posts



The hydrological network includes 2 hydrological stations (Balti and Dubasari) and 59 hydrological posts (30 - automatic posts)

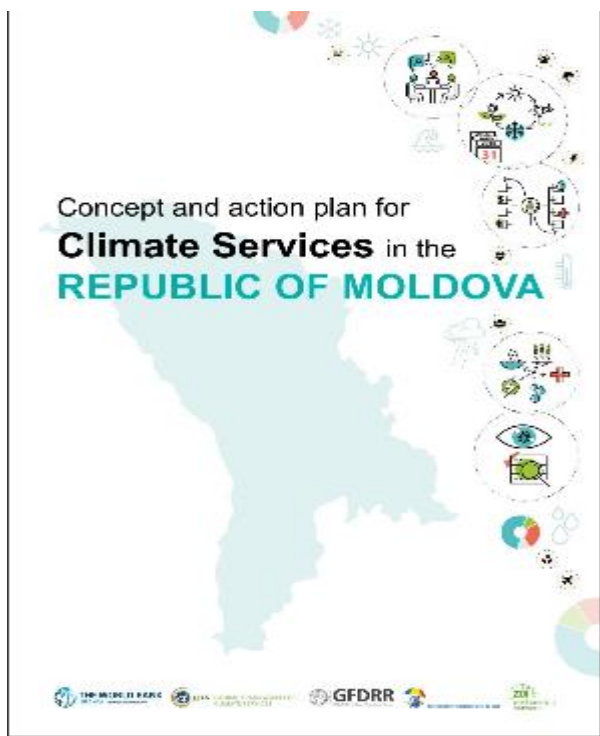
Activities

- ❑ **Technical modernization of SHS was carried out as part of the World Bank project “Disaster and Climate Risk Management” in 2010-2016:**
 - **DWSR-3501C weather radar,**
 - **calibration laboratory for meteorological equipment,**
 - **systems for viewing, editing and processing automated data in the weather forecasting process - SYNERGY and METEOFACORY,**
 - **14 AWS and 32 mini AWS, and actinometric complex,**
 - **software for processing and viewing agrometeorological data,**
 - **modern equipment for determining soil moisture,**
 - **6 automated hydrological posts on the Dniester river.**
- ❑ **In next years, the activity was aimed at improving the services provided by SHS to the population and the national economy.**

Reinforcing Weather and Climate Services in Moldova

In the period 2017-2019, the World Bank Project “Reinforcing Weather and Climate Services in Moldova” has been implemented.

- ❖ In the first part of the project, the World Bank and the Global Disaster Risk Reduction Mechanism (GFDRR), with the support of the World Meteorological Organization, contributed to the development of the Concept and Action Plan for the provision of climate services in Moldova.
- ❖ The Executing Agency was Zoï Environment Network.



ANNEX 2
Broader action areas endorsed by NPCS stakeholders

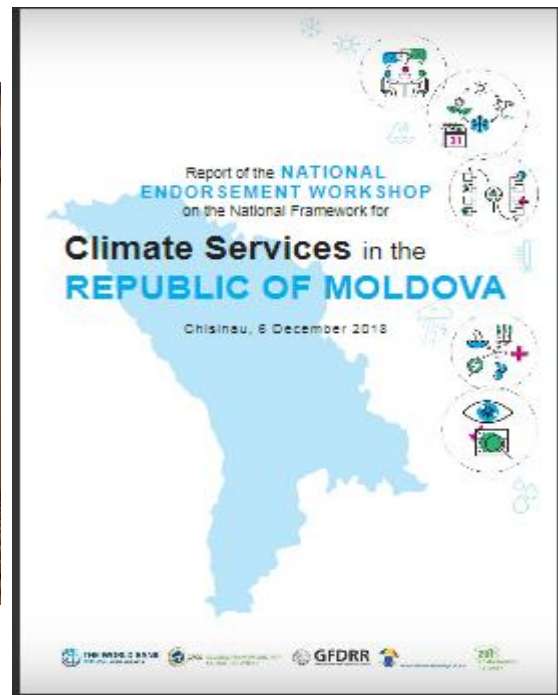
ACTIONS	Cost	Time frame, years		Funding sources	
		1-2	3-5	Govt	Private/Donor
BRINGING IN THE USERS					
Organize regular meetings and round tables with users with open-house meetings	C	•	•	•	
Build a directory of experts in climate information services and their areas of competence for addressing user inquiries	C	•			
Conduct user surveys and focus groups to assess user demand and their needs	C	•			
Integrate user feedback management in NDC and other NPCS services' user interface	C	•			
Further streamline and enhance public services, and develop new technical solutions (e.g. chatbot messages, mobile phone applications, etc.)	CC				
Provide (through regularly scheduled user panels) information about user and assess their needs and services	C	•			
Build user expertise in understanding climate and meteorological information (e.g. use TV, other mass media, improve presentation of technical information)	CC		•		
SHAPING GOVERNANCE AND SUSTAINABILITY					
Develop NPCS institutional arrangements and operational aspects of user dialogue	C	•			
Build capacity for NPCS steering and coordination mechanisms, in evaluating and using existing experience from other countries	C	•			
Develop solutions for implementing NPCS in multiple and diverse NDC sectors, etc.	C	•			
Provide support in setting NDC-related legislation and input to other relevant documents (e.g. role in interagency and intersectoral working group)	CC				
Develop sustainable NDC-ENDC financial models, needs and a long-term strategy for its implementation	CC				
PROVIDING CLIMATE SERVICES					
Evaluate user satisfaction with current climate services and identify new product and service areas of different time and spatial scales	C	•			
MONITORING AND EVALUATION					
Measure and identify forecasting opportunities and synergies of the ENDC and other NPCS services	CC				
Develop regular regional observation networks (e.g. in the Transnistria region)	CC				
Develop arrangements for integration and interoperability of, and data exchange with, existing weather-related networks (e.g. meteorological and emergency management monitoring)	C	•			
Develop full database enabling all past observation data	CC	•			
Develop regular climate information products for the general public (e.g. WMO State of Health and Climate)	C	•			
Develop interdisciplinary climate services for end users (e.g. in Ukraine and for agriculture) for young professionals	CC				
ADDRESSING PRIORITY SECTORS					
Identify priority sectors and information services products to be developed for them	C	•			
For a few selected NPCS sectors, search for integrated solutions of climate services across the value chain and the range of products	CC				
Integrate non-technical service applications and needs for closer alignment with climate and natural disaster insurance, atmospheric quality of air, and other services	CC				
Develop guidelines for integrating climate information and products in the sector and regional development plans	C	•			
ENHANCING VISIBILITY TO DECISION MAKERS					
Conduct study and communicate to policymakers, advisors and government officials of the NDC and its financing	CC	•			
Conduct systematic dialogues and regular cooperation with mass and elite media	C	•			
Develop and maintain NDC-ENDC and other NPCS services' separate for media and public relations	CC	•			
Study the best communication and public relations strategies and approaches from the EU and to member countries	C	•			
Develop and implement NDC-ENDC and other NPCS information services and facilities in selected interested regions of Ukraine	CC				
Develop and implement a comprehensive NPCS communication strategy for different target audiences and communication channels	CC	•			

CC = full budget requirements, C = essential to efficient budget requirements

Reinforcing Weather and Climate Services in Moldova

The following activities were carried out as part of the development of the Concept and Plan:

- ❖ A study of the state of climate services in the country has been carried out.
- ❖ Two consultative seminars were organized with producers and consumers of climate services, as well as a training seminar with mass-media representatives.
- ❖ These seminars contributed to the development of a dialogue between the institutions engaged in this type of activity, regardless of their status (state or non-governmental).



Reinforcing Weather and Climate Services in Moldova

- ❖ In the second part of the project, the main task was to develop a mechanism to support the quality management standard (ISO 9001:2015) within SHS.
- ❖ The implementing agency for this part of the project was JBA Consulting, supported by Romanian experts from the National Meteorological Administration and National Institute of Hydrology and Water Management.



Developing capacity in hydrometeorology: verification, quality management and meeting user need

[Click here to view our Moldova case study](#)

Client/Partners:
World Bank/State Hydrometeorological Service of Moldova

Location:
Moldova

Date:
2018-19

The National Service (SHS) is being supported by the World Bank and the Global Facility for Disaster Reduction and Recovery to help it meet user demand for weather, climate and hydrological information services. Capacity building is needed on both the supply and demand sides of hydrometeorological information services, as well as strengthening the interface between service providers and users.

This project is part of the wider World Bank Technical Assistance Project 'Reinforcing Weather and Climate Services' that is continuing to help transform the SHS into a modern service delivery agency, guided by the World Meteorological Organization's (WMO) Strategy for Service Delivery (SDS).

Challenge

1. Support development of a SHS product verification mechanism: developing a mechanism to perform technical verification. Consolidate this information with user feedback to produce the information needed to target and design service delivery improvements.

2. Support development of a SHS quality management system (QMS): designing and implementing a standardised QMS following international good practice. Preparing SHS

for eventual certification under International Organization for Standardization (ISO) Standard ISO 9001.

3. Provide expert coaching for additional service delivery improvement processes: helping SHS benefit from international good practice and expertise to implement service delivery processes.

4. Support improved use and management of the weather radar for use in flood forecasting and other hydrological applications.



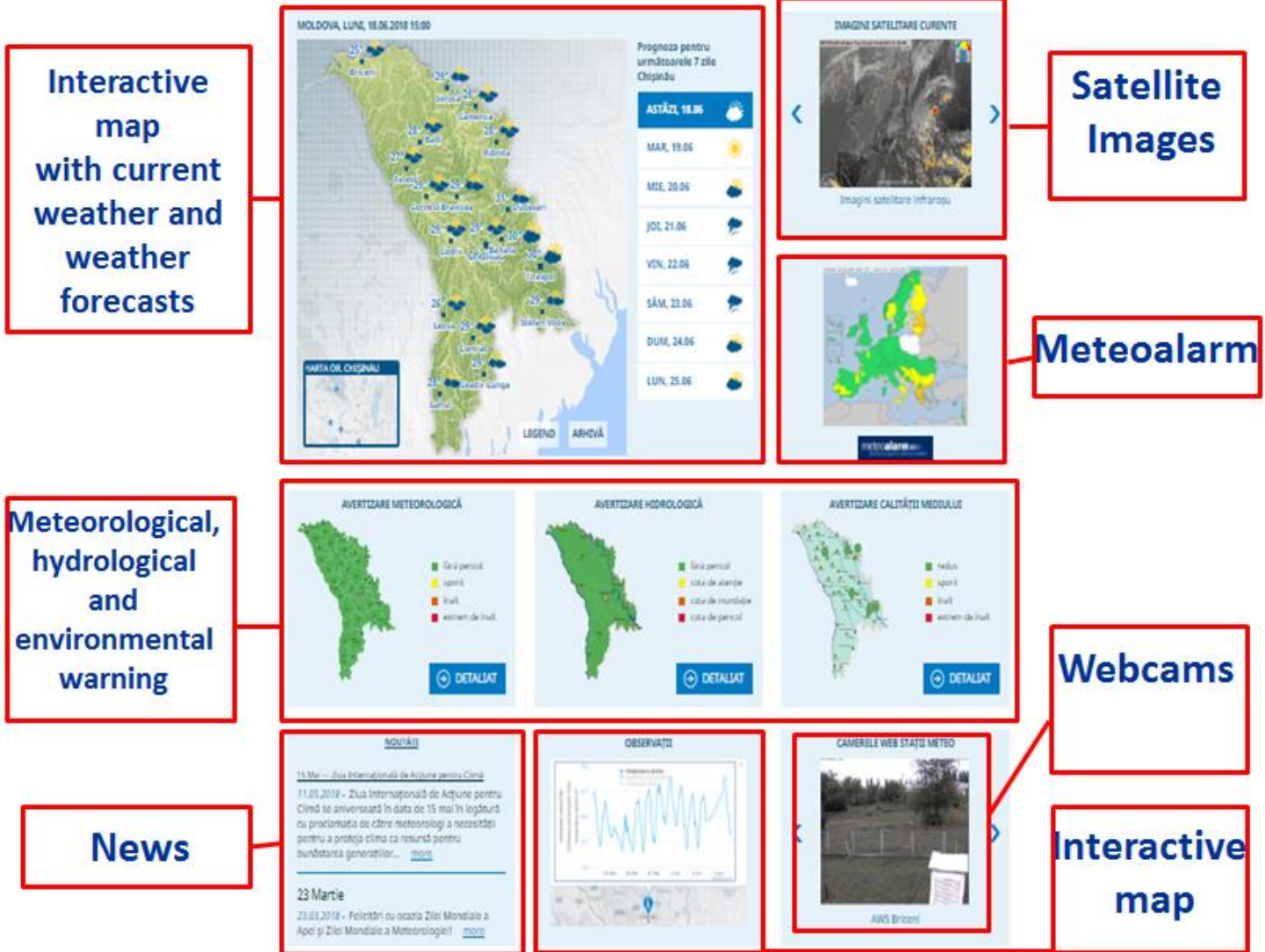
Reinforcing Weather and Climate Services in Moldova

In the framework of the project “Reinforcing Weather and Climate Services in Moldova”, with the support of specialists from the National Meteorological Administration of Romania, since September 2019 the SHS meteorological radar DWSR-3501C was included in the unique NMA radar system, which contributed to the improvement of the early warning of adverse weather conditions.



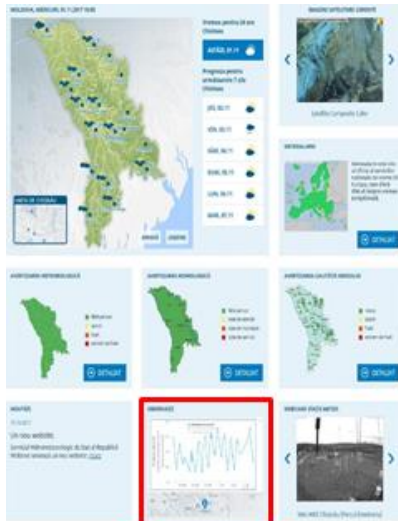
Website: www.meteo.md

The SHS website was modernized with the support of UNDP and of ZAMG (Austria) specialists.



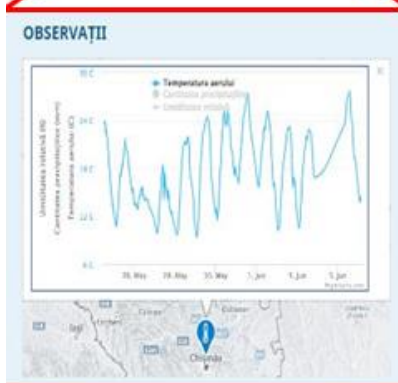
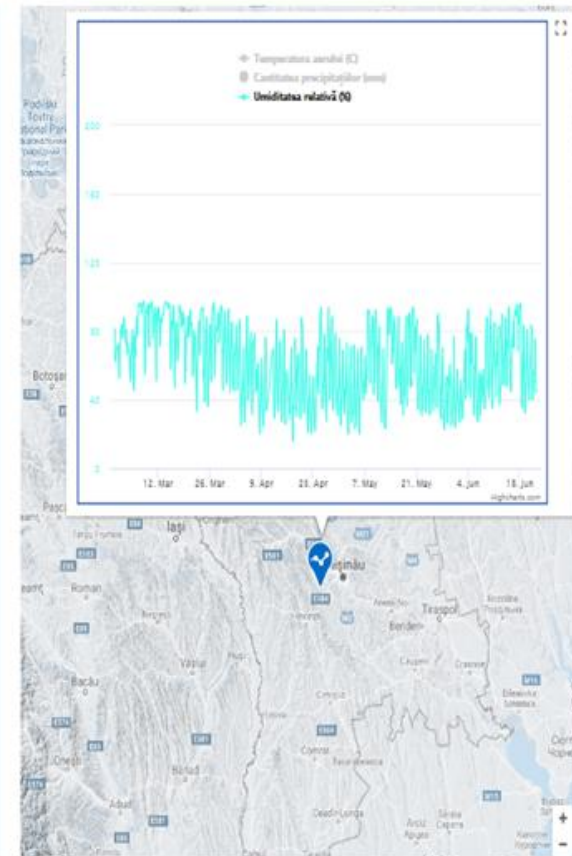
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Interactive map of observational data



HARTA INTERACTIVĂ ȘI OBSERVAȚII

- FILTRU DE SETĂRI
- ▼ METEOROLOGIE
 - AWS Briceni
 - AWS Soreca
 - AWS Bălți
 - AWS Faleștii
 - AWS Cornești
 - AWS Brailvea
 - AWS Codrili
 - AWS Baltata
 - AWS Chișinău
 - AWS Ștefan-Vodă
 - AWS Leova
 - AWS Comrat
 - AWS Cahul
 - AWS Ceadir-Lunga
 - Mini AWS Anenii Noi
 - Mini AWS Basaraboeasca
 - Mini AWS Călărași
 - Mini AWS Cantemir
 - Mini AWS Căușeni
 - Mini AWS Chișinău (UTM)
 - Mini AWS Cimișlia
 - Mini AWS Dondupeni
 - Mini AWS Drochia
 - Mini AWS Edineț
 - Mini AWS Florești
 - Mini AWS Gărgăulești
 - Mini AWS Glodeni
 - Mini AWS Chișinău (Grădina Botanică)
 - Mini AWS Hîncești
 - Mini AWS Ialoveni
 - Mini AWS Chisnău (Liceul Gogol)
 - Mini AWS Lîpcani
 - Mini AWS Chișinău (Parcul Dendrariu)
 - Mini AWS Nișorenii
 - Mini AWS Ocnița



Collaboration with Japan Weather Association

The State Hydrometeorological Service (SHS) and the Japan Weather Association (JWA) have signed a Joint Declaration of Intent.

As part of this collaboration, JWA specialists trained the SHS staff in order to improve the use of meteorological radar data in meteorological and hydrological forecasting.

Collaboration with JWA is still on-going.



Plans for the future

- **Further development of the results of the “Reinforcing Weather and Climate Services in Moldova” project.**

In order to promote and perform Action Plan on the establishment and implementation of NFCS in the Republic of Moldova, which was elaborated in the frames of the project, it is necessary to receive it at the legislative level.

To do this, a number of actions should be performed: to carry out a financial evaluation of the measures specified in the Plan, to make amendments / additions to legislative acts and other.

- **Modernization of the hydrological monitoring system in order to provide early warning of flood risks.**

For this it is necessary to update the existing automatic hydrological posts and to install new ones, as well as to purchase software for collecting, processing, analyzing and visualizing data.

Thank You!

