

СОДЕЙСТВИЕ ОБМЕНУ ОПЫТОМ СТРАН ЦЕНТРАЛЬНОЙ АЗИИ В ОБЛАСТИ  
ГИДРОМЕТЕОРОЛОГИЧЕСКОГО ОБСЛУЖИВАНИЯ

Семинар-тренинг  
10 – 11 ноября 2021 года



MINISTRY OF ECOLOGY,  
GEOLOGY AND NATURAL  
RESOURCES OF THE RK



EUROPEAN UNION



# The system of hydrometeorological services in Kazakhstan

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# RSE "Kazhydromet"

- **1. Monitoring of the state of the environment:**

- environmental monitoring;
- monitoring of natural resources;
- special monitoring;
- meteorological and hydrological monitoring;
- monitoring of the state of the environment.

- **2. Activities:**

- Improvement of methods for forecasting hydrometeorological phenomena;
- Carrying out research work related to monitoring the state of the environment, meteorological, hydrological monitoring;
- Implementation of the preparation and organization of work on the publication of scientific, technical and applied literature related to the main activities;
- Maintaining the republican fund of data obtained as a result of monitoring the state of the environment, meteorological and hydrological monitoring.



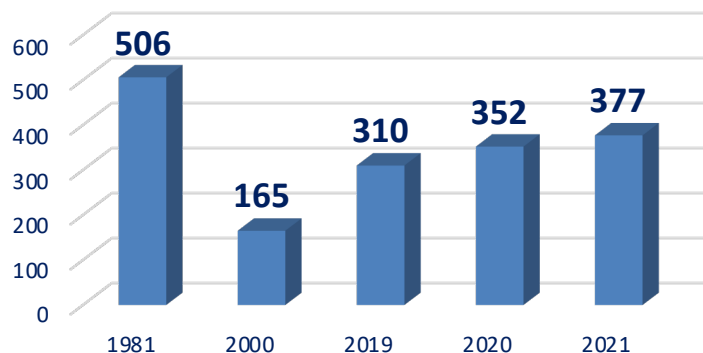
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# Hydrological monitoring

Hydrological observations are carried out at **377 posts**, the coverage is 75% (in 2020 - 70%).



- From 01.01.2020, **42 hydrological posts** opened as part of the implementation of the Roadmap "A set of measures for the prevention and elimination of flood threats for 2017-2020" began.
- From 01.01.2021 **25 hydrological posts** were opened as part of the implementation of the State program "Development of the agro-industrial complex"

## *Hydrological network development*

During the spring flood, hydrological forecasts were developed and timely submitted to the relevant state bodies and regional akimats.



## *Average accuracy of hydrological forecasts (%)*

Hydrological forecasts	2020	2021 (january-may)
Seasonal long-term forecasts for the spring flood period	61	60
Forecasts for the growing season for mountain rivers (in April)	83	-
Weekly forecasts and storm warnings	86	88

- 24 snow routes
- 2 avalanche stations<sup>1</sup>
- 5 evaporation pads (for calculating evaporation from the water surface)

# Water quality monitoring

- The main regulatory document for assessing the quality of water in water bodies of the Republic of Kazakhstan is the "Unified system for the classification of water quality in water bodies."
- To determine the physicochemical indicators in the analytical laboratories of the RSE "Kazhydromet", 55 Measurement Methods are used, which are included in the register of the State Property Inspectorate of the Republic of Kazakhstan.



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# Procedure for processing and disseminating hydrological information

## 01 Hydrological post

The observer of the post takes measurements and sends the data to the appropriate branches by telephone or radio.

## 02 Branches of RSE Kazhydromet

The hydrological engineer processes the received hydrological data (check, coding) and sends it through the UNIMAS communication center to the central office.

## 03 RSE Kazhydromet

The engineer of the Department of Hydrological Forecasts checks, decodes and summarizes the hydrological data for further referral to the branches, interested authorities and hydrometeorological services of neighboring countries according to the cooperation program.



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