



AOMSUC-15 FYSUC-2025

FIFTEENTH ASIA-OCEANIA METEOROLOGICAL SATELLITE USERS' CONFERENCE
THE JOINT 2025 FENGYUN SATELLITE USER CONFERENCE

National Hydrometeorological Service in the Early Warning System and Disaster Risk Reduction

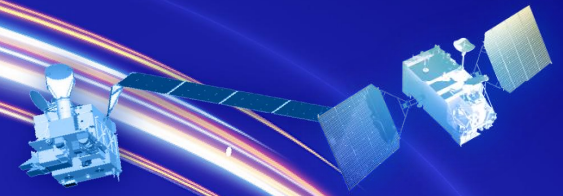
Tatyana Chernikova,
Hydrometeorological Service under
the Ministry of Emergency Situations of the Kyrgyz Republic





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The National Hydrometeorological Service of the Kyrgyz Republic (Kyrgyzhydromet) is an officially competent state body entrusted by the Government of the country with activities in the field of hydrometeorology and environmental monitoring.

In the process of disaster risk management, Kyrgyzhydromet carries out activities on:

- 1) forecasting and assessing the possibility of risk occurrence;
- 2) prevention and early warning.

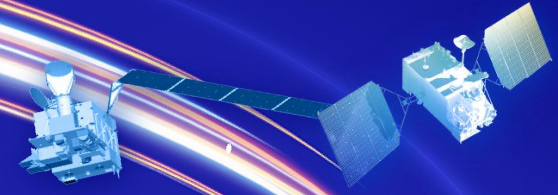
Risk forecasting and timely warning / early warning, which are the most effective mechanisms for managing and reducing the risks of natural disasters, reflect the main areas of activity of the National Hydrometeorological Service of Kyrgyzstan.

Kyrgyzhydromet, being a subordinate unit of the Ministry of Emergency Situations of the Kyrgyz Republic, is part of the unified early warning system of the Ministry of Emergency Situations of the Kyrgyz Republic.



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Forecasting, risk assessment, prevention, early warning

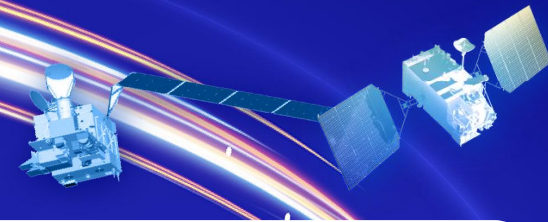
- hydrometeorological, avalanche, and environmental monitoring Issuing forecast information
- meteorological forecasts with varying lead times (from 1 to 7 days), hydrological forecasts, avalanche hazard forecasts, and agrometeorological forecasts Issuing
- storm warnings about possible hydrometeorological emergencies: sudden weather changes, frosts, heavy precipitation, gales, as well as avalanches, floods, and mudflows





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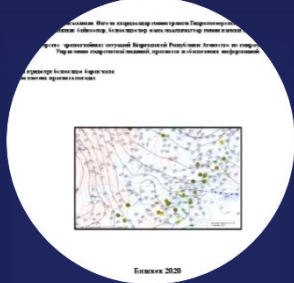
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Overview of meteorological forecast products



Warnings about extreme weather events (including frost, heavy precipitation, wind), sudden changes in weather



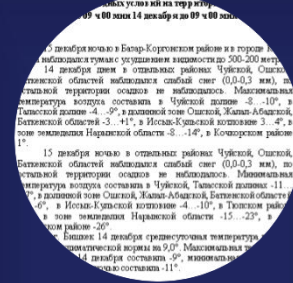
Daily weather forecast bulletin (1-7 days, 8-9 days advisory)



Forecast of background air pollution levels in Bishkek



Forecast of air temperature and precipitation anomalies for the month in the Kyrgyz Republic



Overview of hydrometeorological conditions in the Kyrgyz Republic for the past day, month and year



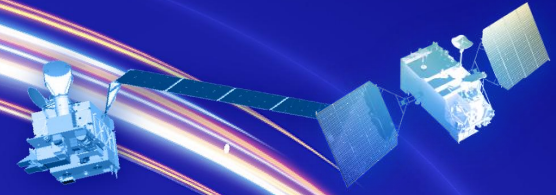
Provision of specialized meteorological information





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Storm warnings

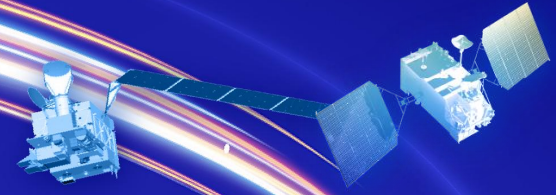
Meteorological storm warnings about expected hazardous (natural) phenomena and sudden weather changes are issued throughout the Kyrgyz Republic with a lead time of 48-96 hours.
At consumer request, special storm warnings are issued about expected adverse and hazardous natural phenomena.





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Distribution of issued meteorological products

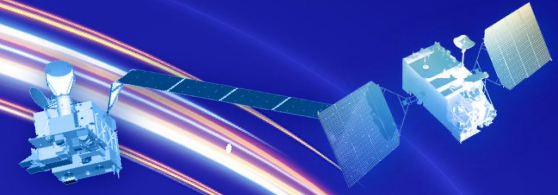
Consumers of weather forecasts and storm warnings include: the country's population, executive authorities, including those overseeing weather-sensitive sectors of the economy, as well as those ensuring the safety of the population and the country's industrial infrastructure; legal entities and individual entrepreneurs whose activities depend on weather conditions.





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Meteorological observation network

Currently, 36 manual meteorological stations operate in Kyrgyzstan, monitoring meteorological parameters (air temperature, precipitation, wind speed and direction, pressure, humidity, cloud cover, height and shape, humidity, phenomena, etc.) eight times a day.

In parallel, automatic observations are conducted at 98 automatic meteorological stations.

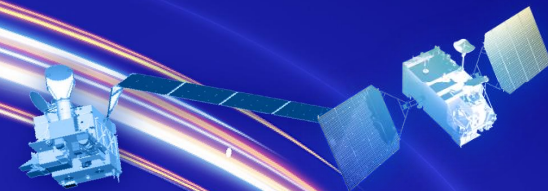
In mountainous regions such as Kyrgyzstan, insufficient meteorological monitoring creates a number of serious problems affecting the accuracy and effectiveness of natural disaster warnings. Mountainous and high-altitude areas of all regions of Kyrgyzstan are priority areas for meteorological observations.





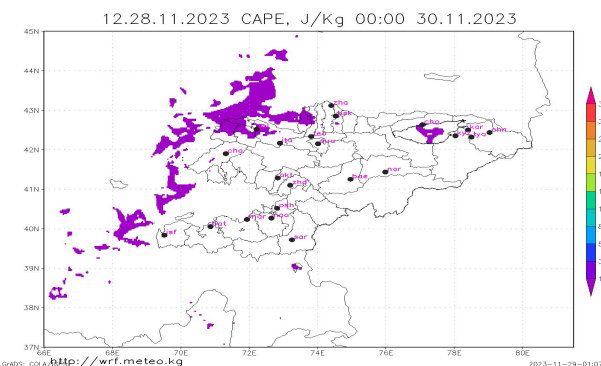
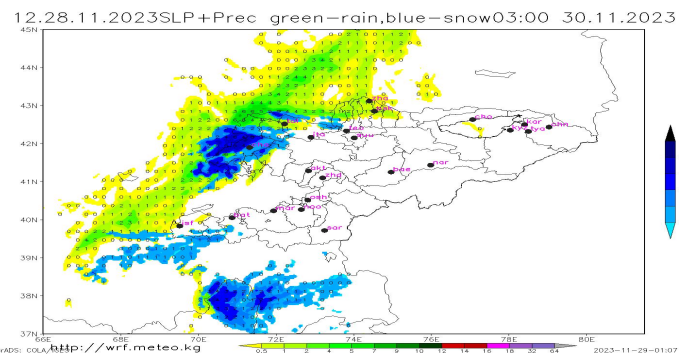
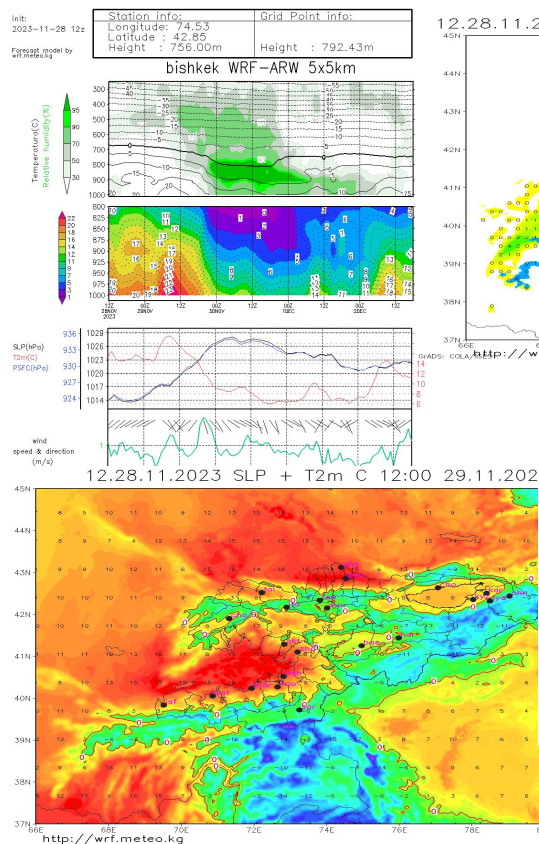
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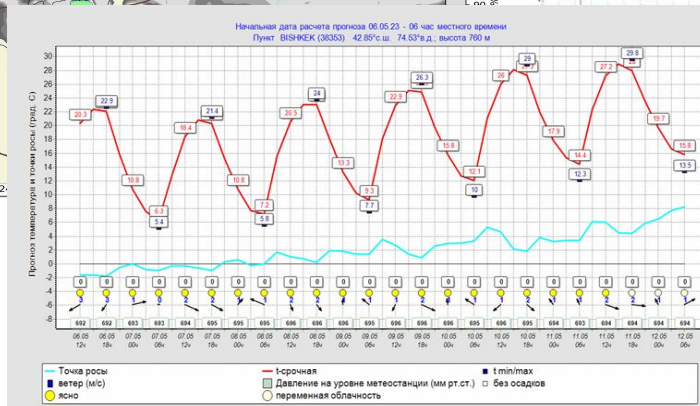
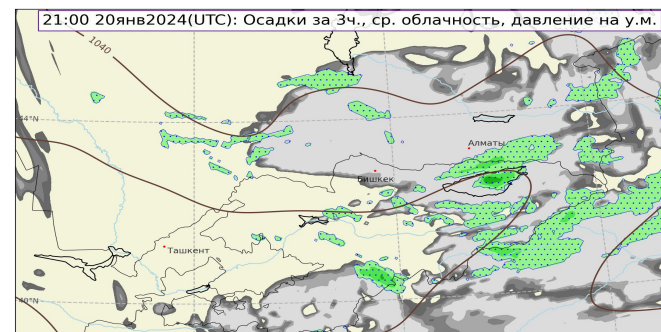


Numerical calculated hydrometeorological products used
in issuing weather forecasts and meteorological storm warnings

WRF-ARW model

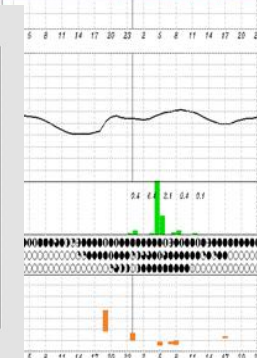
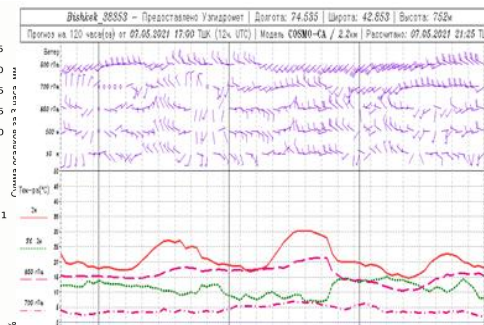


COSMO-CA



SWFP-CA

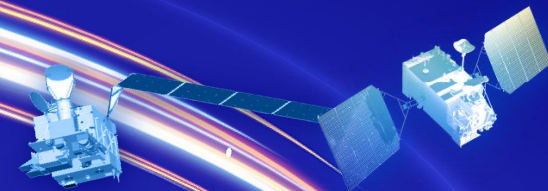
Severe Weather Forecasting Project for
Central Asia





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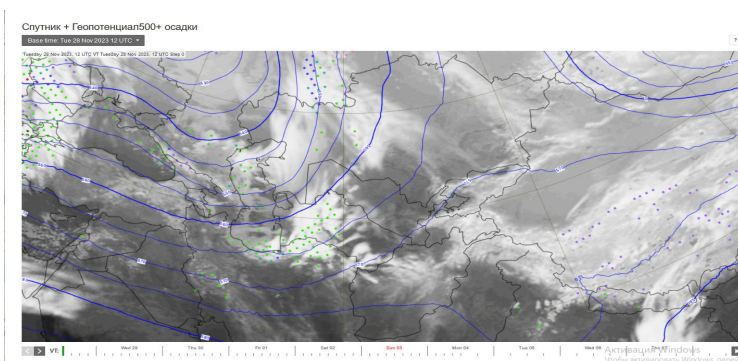
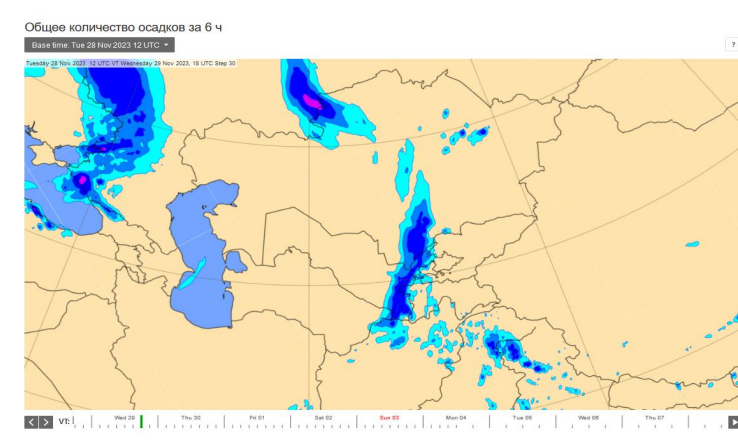
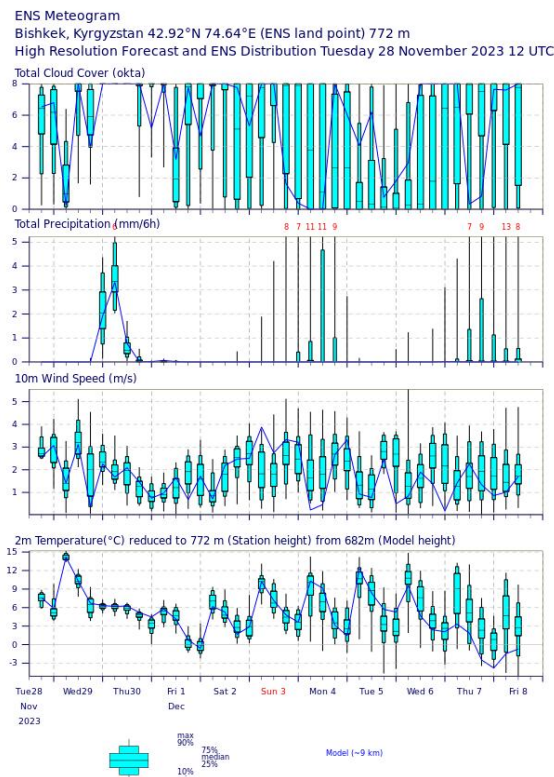
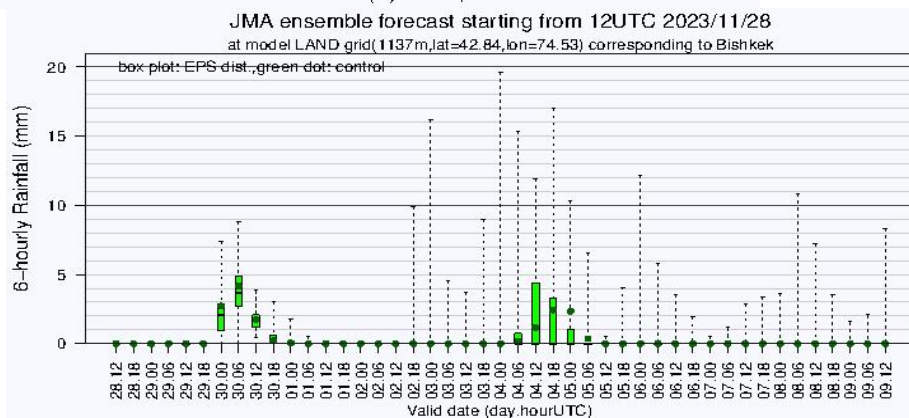
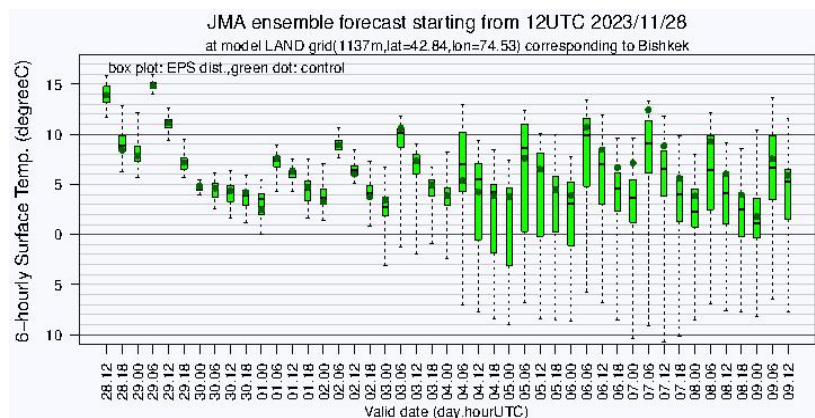
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Numerical calculated hydrometeorological products used in issuing weather forecasts and meteorological storm warnings

Ensemble forecast products of the Japan Meteorological Agency

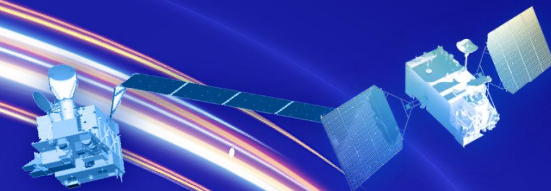
ECMWF forecast products





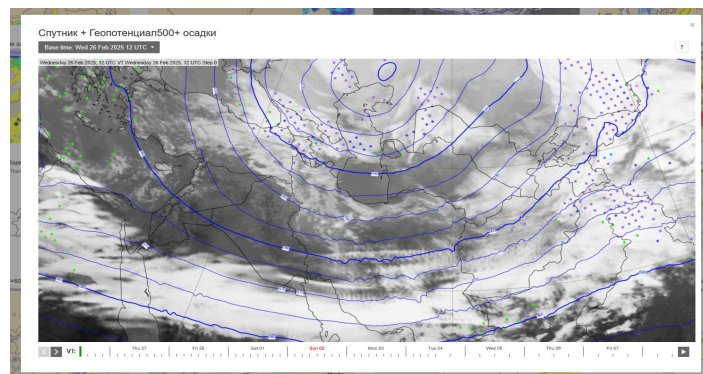
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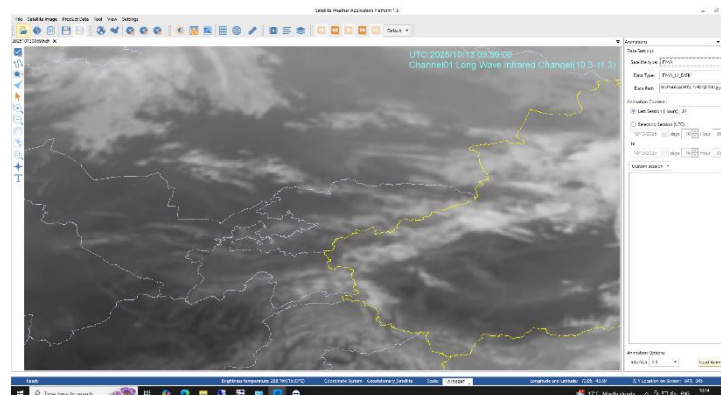


Use of meteorological satellites

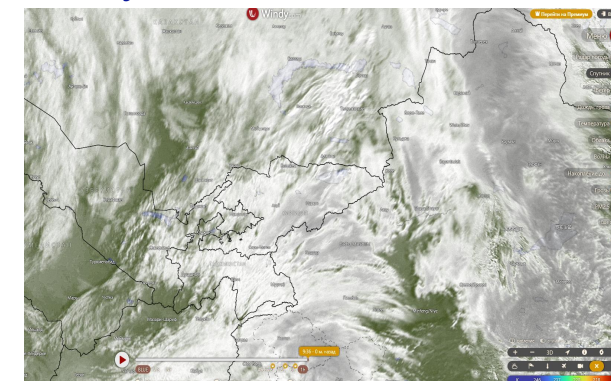
ECMWF satellite data



FY satellite data

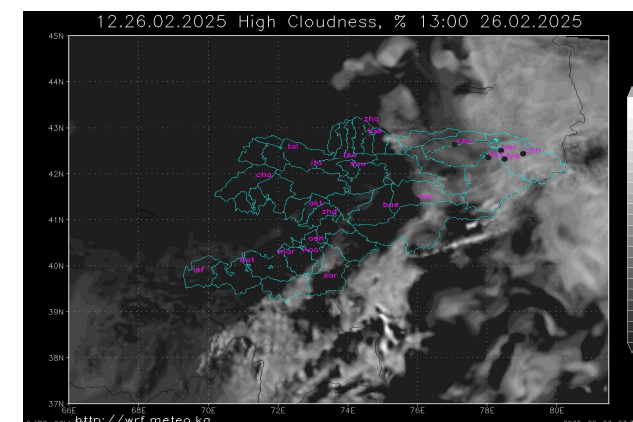
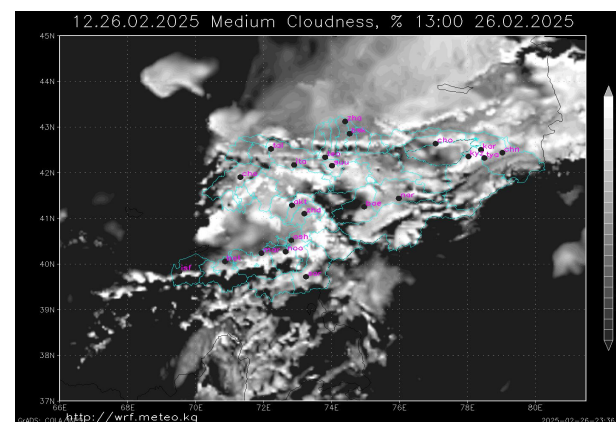
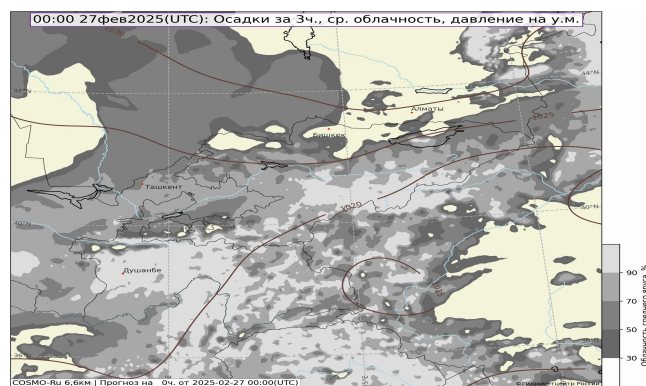


Windy satellite data



Satellite data from the WRF model

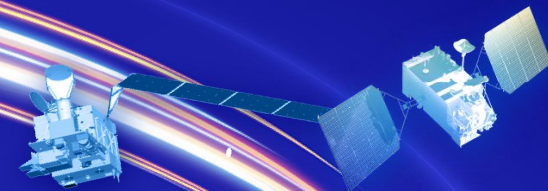
COSMO-CA satellite data





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Common Alerting Protocol (CAP)

In 2025, Kyrgyzhydromet officially joined the World Meteorological Organization Common Alerting Protocol (CAP). This strategic step marks a significant improvement in the country's security and emergency preparedness. By implementing the standardized CAP protocol, Kyrgyzhydromet will now be able to quickly and effectively exchange critical information and warnings both domestically and with international partners. This will significantly improve the quality and speed of public information dissemination, ultimately contributing to risk mitigation and the protection of lives and property.

Форма редактирования Таблица с прогнозом Журнал Инструкция

Отображать время: UTC Пользователь: kg Выход

Сохранить все изменения

Баткенский район

пачасовое представление прогноза

2025-10-15

2025-10-16

2025-10-17

2025-10-18

Период действия:

начало 2025-10-15 3 окончание 2025-10-16 4 (UTC)

Заголовок:

Оповещения о погоде не требуется

Описание:

Режим редактирования. Этот режим позволяет изменить интенсивность явления, заголовок, описание и период действия. Данное действие относится только к выбранному региону.

Кадамжайский район 46 ч.

Лейлекский район 46 ч.

Джалал-Абадская область

Аксайский район 46 ч.

Ала-Буинский район 46 ч.

Базар-Коргонский район 46 ч.

Чаткальский район 46 ч.

Ноокенский район 46 ч.

Сузакский район 46 ч.

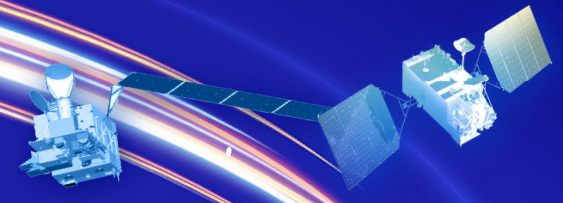
Тогус-Тороуский район 46 ч.

Токтогульский район 46 ч.



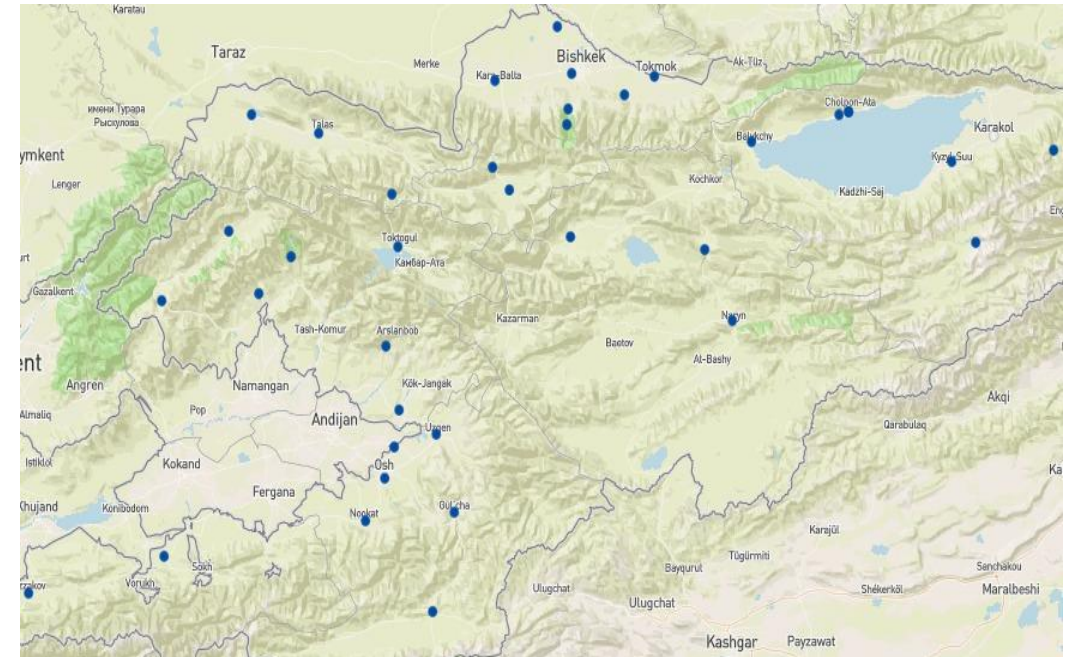
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WMO International Exchange

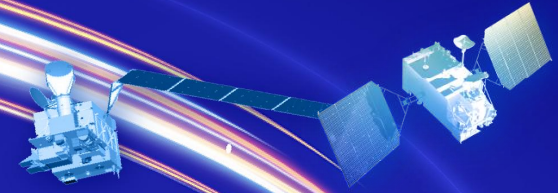
As a member of the World Meteorological Organization, the Kyrgyz Republic participates in several global environmental monitoring programs. As part of the country's commitment to the WMO World Weather Watch program, Kyrgyzhydromet increased its operational data provision to the Global Observing Network from 25 to 35 meteorological stations in 2025.



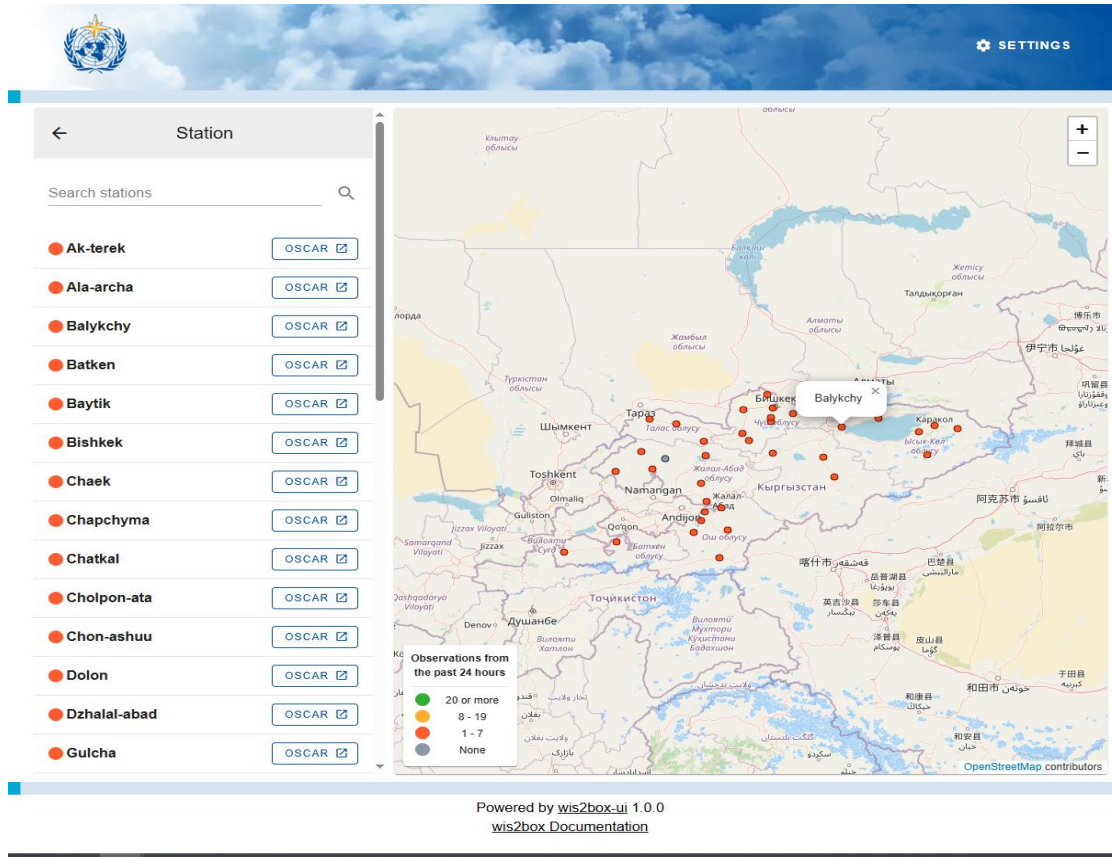


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Transition to the WMO Information System WIS 2.0



Kyrgyzhydromet has completed its connection to the World Meteorological Organization's Global Information System (GIS2.0). This important achievement will enable the real-time exchange of meteorological, climate, and hydrological information with other countries and international centers. Integration into the WMO system will improve the accuracy of weather forecasts, the effectiveness of early warning of natural disasters, and strengthen Kyrgyzstan's participation in global climate change monitoring.



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Thank you for your attention!

