Climate Services in the REPUBLIC OF ARMENIA



GLOBAL FRAMEWORK FOR CLIMATE SERVICES

The Global Framework for Climate Services (GFCS) envisions better risk management and more efficient adaptation to climate variability and change through improvements in the quality, delivery and use of climate-related information in planning, policy and practice.

Promoted and facilitated by the World Meteorological Organization in cooperation with the GFCS Partner Advisory Committee, the GFCS focusses on developing and delivering information services in agriculture and food security; disaster risk reduction; energy; health; and water, and organizes its work around observations and monitoring; climate services information systems; research, modelling and prediction; user interface platforms; and capacity development.

The World Bank has supported the conceptualisation and establishment of a National Framework for Climate Services (NFCS) in Armenia through the Disaster Risk Management project financed by the Japan–World Bank Program for Mainstreaming Disaster Risk Management in Developing Countries. From 2019 to 2020, the Switzerland-based international non-profit organization, Zoï Environment Network, has worked in close cooperation with the Hydrometeorology and Monitoring Center under the Ministry of the Environment of Armenia to develop the NFCS.

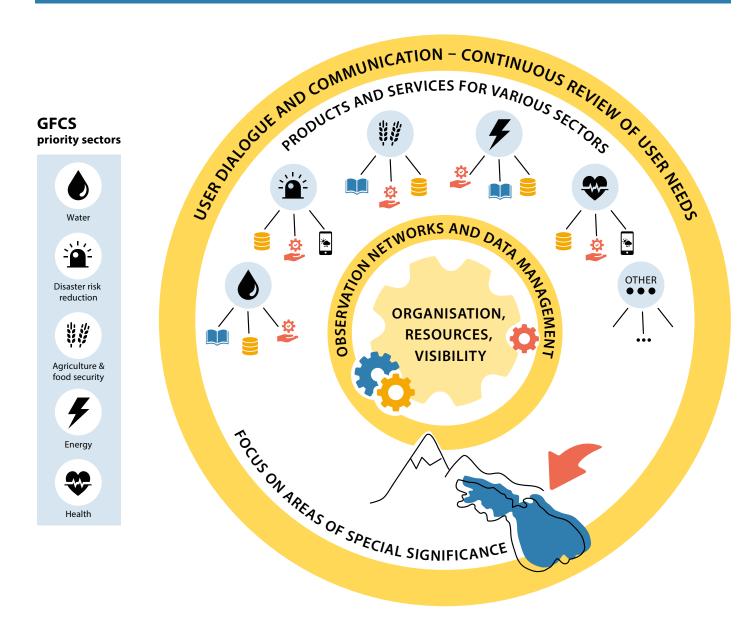
In-depth interviews with users of climate services were followed by a baseline study of hydrometeorological and climate information and services in Armenia and a series of online consultations with thematic clusters, bringing together in total close to 150 participants from various sectors. The online review of the NFCS concept and action plan helped better tailor the design of the Framework design to the needs of users Armenia, and confirmed the commitment of key stakeholders to the goals of improving how hydrometeorological and climate information is provided, accessed and used.

ARMENIA CHALLENGES AND SOLUTIONS

Armenia's hydrometeorological observation network collects a vast array of data. Weather forecasts use observations at meteorological posts, as well as global and regional models, radiosonde observations and radar and satellite data. Other governmental entities, private companies, research, non-governmental and other organisations also collect data and provide services. But lack of resources remains a major constraint, as modern technologies are costly while low salaries make the state sector unattractive for qualified specialists, and much of the observation technology and monitoring equipment is currently out of date due to the lack of systematic funding and upgrades. Technical and human capacities also need to be improved to enhance the availability, quality and accuracy of forecasts and other services to meet the needs of various users.

In their daily work, users of hydrometeorological services face data gaps across a range of subjects. Some of these data are not collected at all or not at the required volume and resolution. Others are difficult to find and access. Although information is regularly provided to the Government and organisations with data contracts, only limited data are available online or through social media. And users often do not know what information exists, how it can be acquired or how much it would cost. There is considerable room for expanding interactions with interested users, who in turn can help conceive and shape innovative and relevant products by applying their expertise. Modern communication channels and tools can dramatically improve access to climate information. And all sources of funding and synergies are to play a role in bringing climate services up to the expectations of Armenian sectors, regions and people.

Elements of NFCS Armenia include both cross-cutting actions – such as improved dialogue with users, strengthening governance, sustainability and visibility of the NFCS – and actions involving specific sectors or areas.



The analysis of user needs and perspectives collected through interviews and consultations identifies several directions in which climate services in Armenia can be advanced.

User dialogue and communication

Strengthening the interface and dialogue with users of climate information and services by bringing them into the NFCS design and implementation, building their capacities and improving communication with them.



Sector-oriented products and services

Building long-term partnerships with key sectoral recipients of NFCS information, identifying their needs, and co-designing and producing specific products and services together.



Climate services for areas of special significance

Zooming in on areas of special significance for Armenia by focussing climate services on high mountains and Lake Sevan.



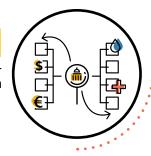
Observations and data management

Modernising and expanding the sustainable observation and data basis for hydrometeorological and climate services.

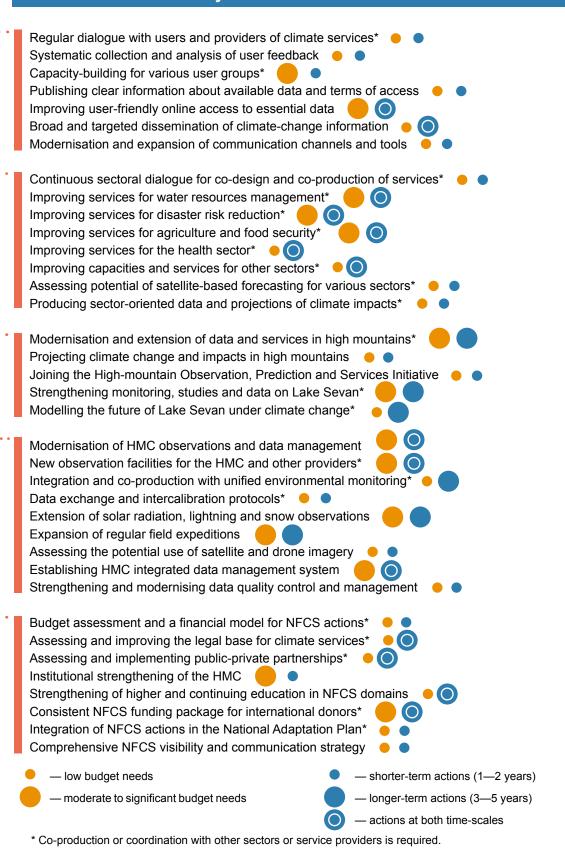


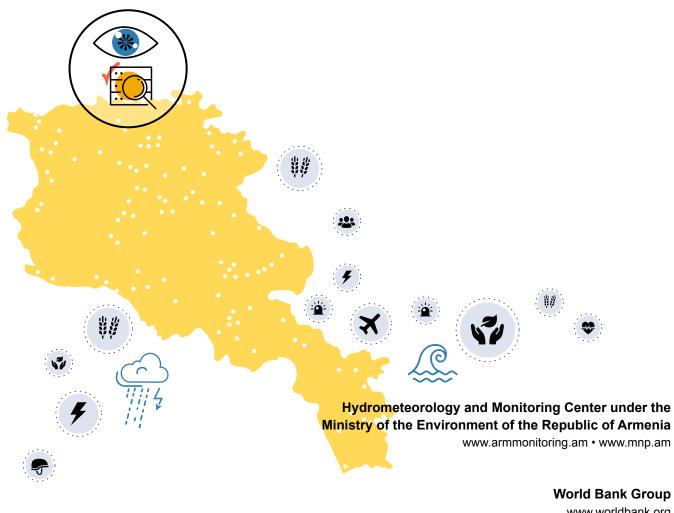
Organization, resources and visibility

Shaping and sustaining an effective governance model of the National Framework for Climate Services in Armenia for years to come.



Action areas endorsed by NFCS stakeholders





www.worldbank.org

World Meteorological Organization

www.wmo.int

Zoï Environment Network

www.zoinet.org











