

INNOVATIVE POSTGRADUATE EDUCATION IN THE FIELD OF ENVIRONMENT PROTECTION: METHODS AND TOOLS

HYDROMETEOROLOGY AND MONITORING CENTER
state non-commercial organization

5-7 October, 2022, Yerevan, National Academy of Science

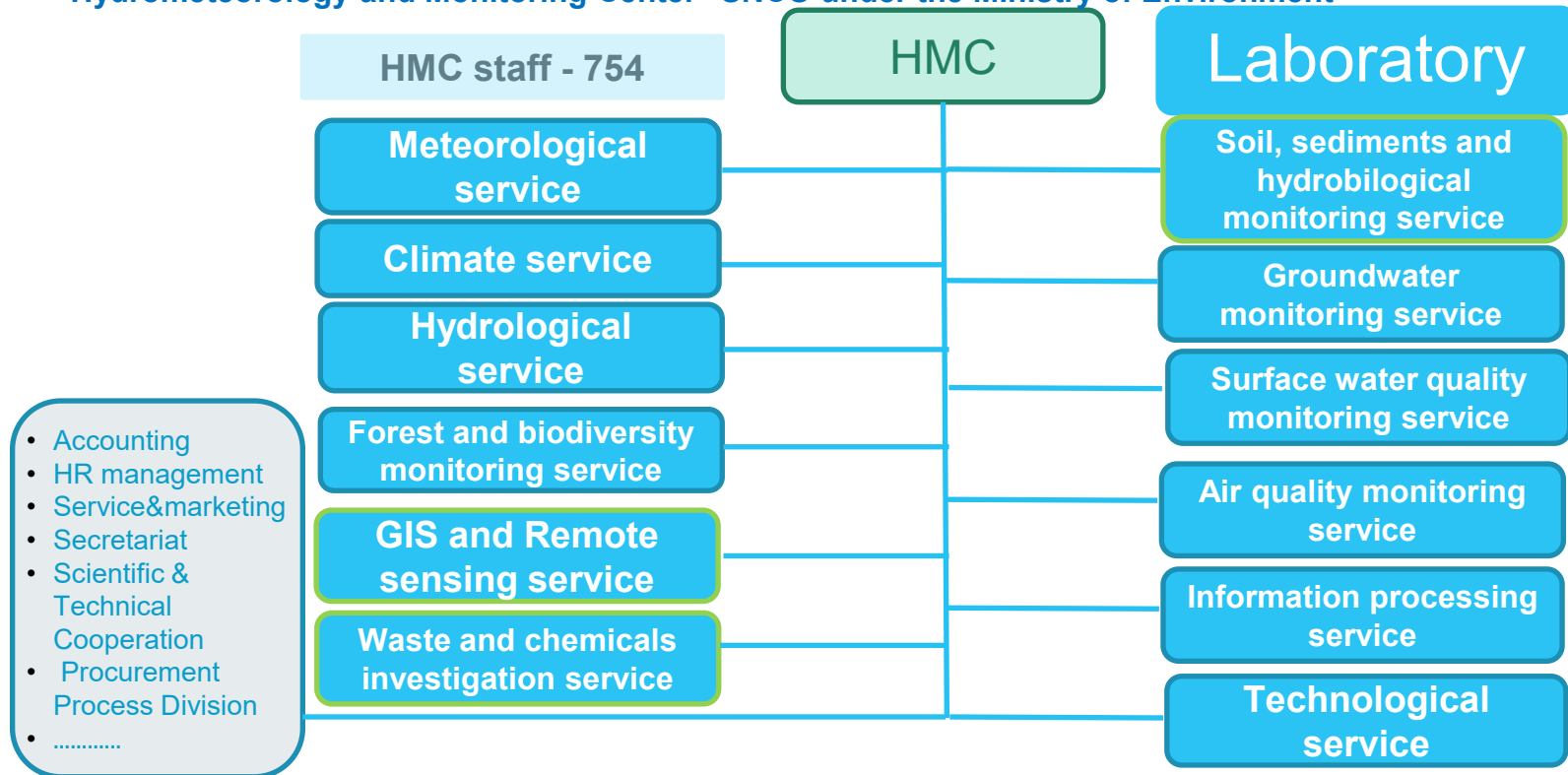
Content

- About HMC
- About capacity-building activities

Hydrometeorology and Monitoring Center

state non-commercial organization

In 2020, "Hydrometeorology and Active Impact on Atmospheric Phenomena Service", "Environmental Monitoring and Information Center" and "Forest Monitoring Center" SNCOs have been merged and formed the "Hydrometeorology and Monitoring Center" SNCO under the Ministry of Environment



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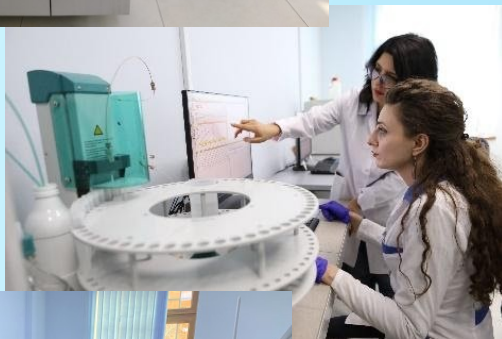
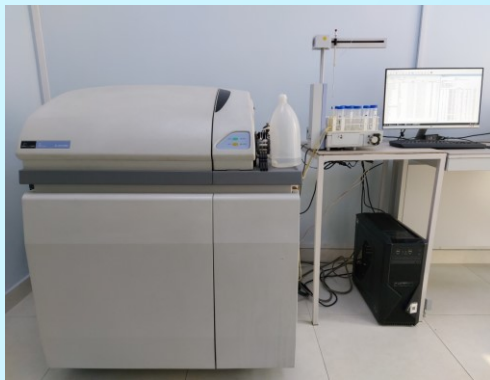
Sampling station/Observation point	Qty
Meteorological monitoring	45
Agrometeorological monitoring	38
Actinometric monitoring	3
Aerological monitoring	1
Atmospheric ozone monitoring	1
Radioactive pollution monitoring	13
Hydrological monitoring	91
Groundwater quantity monitoring	119
Groundwater quality monitoring	55
Air pollution monitoring	15 (215)
Transboundary air pollution monitoring	1
Atmospheric precipitation composition monitoring	2
Surface water quality monitoring	155
Forest monitoring	-
Soil pollution monitoring	-
Biodiversity monitoring	-
Monitoring of waste disposal sites	

Laboratory

About 15
equipment

20-25
specialists

About 60
parameters





Analysis and publication of information

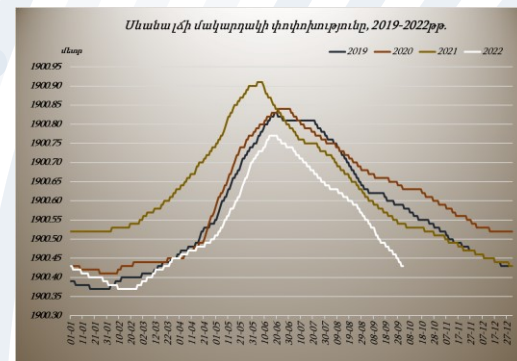
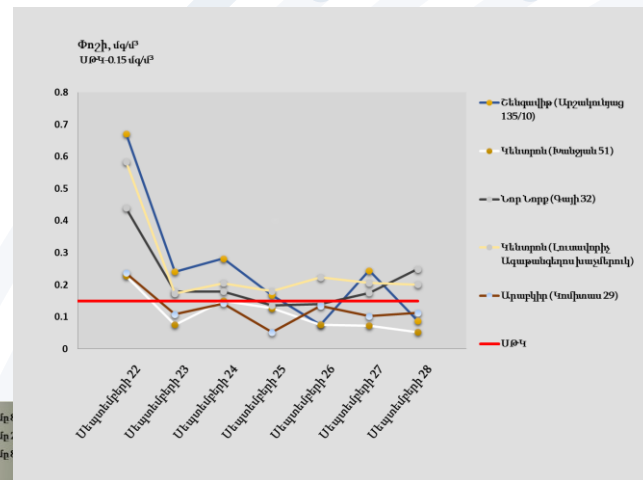
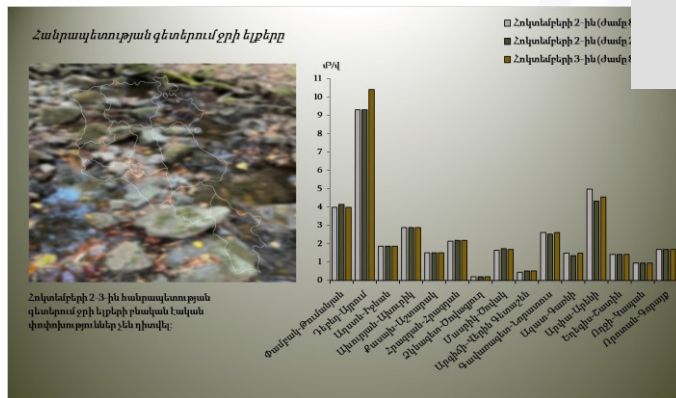
Daily

- ☐ Weather forecast
- ☐ River flow



Weakly

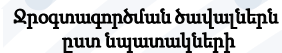
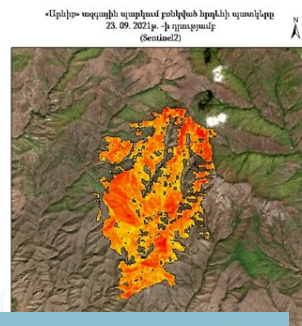
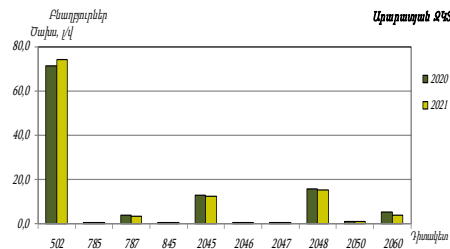
- ☐ Water level of Lake Sevan
- ☐ Air pollution
- ☐ Water quantity in reservoirs



Analysis and publication of information

Annually

- ❑ State of Environment Report
- ❑ Spring floods elements forecast



Our specialists

- Meteorologist
- Hydrologist
- Hydrogeologist
- Chemist
- Water quality expert
- Environmental Lawyer
- Environmental protection specialist
- Wildlife Biologist
- Hydrobiologist
- Limnologist
- GIS specialist
- Geologist
- Ecologist
-

Capacity building activities

- Staff of HMC
- Higher education system
- Scientific Institutes
- Schools
- Colleges

2021-150 training and workshops

2022 – 130 training and workshops

2021

6 -Schools
10 -Higher education institutions and colleges

2022

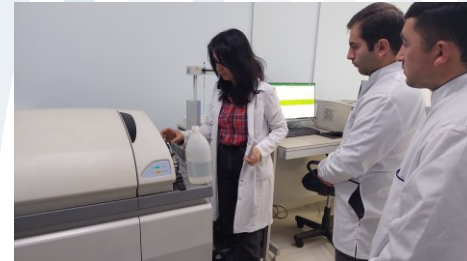
12-Schools
6 -Higher education institutions and colleges



About practices of students Ecocenter

2020-2022

- ❑ Introduction to laboratory methods and equipment
- ❑ Practical use of devices and methods



Scientific work

SEVAMOD2 project: Building up science-based management instruments for Lake Sevan, Armenia" which is funded by the German Federal Ministry of Education and Research (Funding ID 01DK20038) and co-funded by the Ministry of Environment of the Republic of Armenia (partial coverage of costs of chemical analyses)

Partners

- Department Lake Research of the Helmholtz-Centre for Environmental Research (UFZ, Germany)
- Scientific Center of Zoology and Hydroecology of the National Academy of Sciences of the Republic of Armenia
- Center for Ecological Noosphere Studies of the National Academy of Sciences of the Republic of Armenia (CENS)
- German company for remote sensing on the Lake Sevan
- HMC SNCO

Implementation period

- 2020-2023

The main goals of the project are:

- Nutrient budget for Lake Sevan and nutrient management concept
- Coupled physical-ecological 1D eutrophication model for Lake Sevan (nutrients, plankton, oxygen)
- Use of satellite-based remote sensing for estimation of water quality of Lake Sevan
- Evaluation of alternative management scenarios and identification of major water quality threats for Lake Sevan including the preparation of a policy brief
- Capacity Building in Armenia for use of satellite remote sensing and modelling
- Publication of the project results including the realization of a final public project workshop in 2023.

Thanks!

Any questions?

You can find me at:

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