ESTIMATION OF DYNAMICS CHANGE OF ATMOSPHERIC
AIR TEMPERATURE OF GROUND LAYER OF GYUMRI CITY

Vardghi Margaryan
Yerevan State University, Department of Physical Geography and Hydrometeorology.
Yerevan, Armenia

ABSTRACT
Air temperature is characteristics of situation on of links of climatic system, atmosphere. It is being
determined by features of solar energy distribution on the earth surface, by the processes of interactions
between links of climatic system. It is very important the role of air temperature in runoff formation,
evaporation, ice events generation and disappearance, thermal and moisture circulation, in frosts,
droughts and desertification processes also. The role of thermal regime is also very important in water
requirement of agricultural crops and yield formation. So, clarifying and estimation of regularities of
temporal distribution of air temperature has importance, especially for more accurate definition of
thermal balance, for productive using of thermal resources.
So, the goal of this work was to clarify, analyze and estimate regularities of change dynamics of air
temperature in Gyumri city.
For solving this task are collected, clarified and analyzed results of actual observations of air
temperature of Gyumri meteorological station, which are being kept in Armtatehydromet. During the
studying process are analyzed and clarified appropriate literary sources, are used mathematical-
statistical, extrapolation, geographical, analyze and correlation methods.
Have been studied change dynamics of annual average, extremal (absolute maximum and absolute
minimum) values of air temperature of Gyumri city. In study area observes a tendency of increase of
annual average and extremal values of air temperature.
In the result of study became clear, that features and regularities of spatiotemporal distribution of air
temperature depend on complex influence of physical-geographical and anthropogene factors; in
perennial observations notes a tendency of increase of annual average and extremal values of air
temperature; providing of meteorological stations with modern equipments (especially automatic);
inform to population about climate change; realization legal-organization, institutional, technical
arrangements for adaptation of economy to new natural conditions and soften of climate change
consequences.

Key words: Air temperature, change dynamics, climate change, observations, Gyumri city