

IAF EARTH OBSERVATION SYMPOSIUM (B1)
Assessing and Mitigating the Global Freshwater Crisis (6)

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EXPLORATION AND MAPPING OF WATER RESOURCES BY AEROSPACE METHODS. THE
DEVELOPMENT OF SCIENCE AND TECHNOLOGY, THE INCREASE AND DAY-BY-DAY
INTENSIFICATION OF FORMS OF HUMAN INTERFERENCE WITH NATURE MAKE THE
RESEARCH AND ANALYSIS OF ENVIRO

Abstract

Name: Exploration and mapping of water resources by aerospace methods. The development of science and technology, the increase and day-by-day intensification of forms of human interference with nature make the research and analysis of environmental parameters relevant. In addition to irreversible processes in the natural environment, even the existence of man himself poses a great threat. As a result of anthropogenic activity, the mineral rhesus used during the last 50-55 years was equal to the wealth used by mankind during the entire previous history. One of the most important natural resources is water resources. As a result of anthropogenic and natural factors occurring in nature, the tendency of fresh water reserves to decrease is clearly observed. Along with conservation of water resources, integrated management is an important factor. The impact of global climate changes on water resources is inevitable. Hydrogeology, hydrotechnics, etc. in various fields of hydrology. this effect is clearly manifested in these areas. In modern times, there are various methods of surface water resources research. They prefer to study various parameters of the earth's surface using GIS and remote sensing methods. It is possible to perform different analyzes using different software and satellite images. In terms of integrated management of river waters, the advantage of the basin principle makes it important to study the water balance of the river and its tributaries, the amount of water they bring, the height of the basin and other parameters. In modern times, natural disasters that occur in nature cause serious human loss and economic damage. It is possible to carry out flood risk analyzes using GIS and remote sensing methods.