

Definitions and branches of hydrology. Concepts of general hydrology. Water and planet earth. Global freshwater reserves and their distribution, water balance, hydrological cycle and role of forest vegetation. Hydrometeorological factors. Evaporation, transpiration, infiltration, groundwater, springs and categories, runoff, flood runoff - discharges, rainfall-runoff models. Forest vegetation and hydrological factors. Water quality, forest vegetation and water quality. Basic concepts in water resources management, water legislation. Hydrological measurements in local currents - forest hydrological measurements in experimental catchments.