

Original article

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Methodological Aspects of Snow Water Supplies Assessment Based on Kanopus-V Satellite Imagery Data

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Abstract. The article discusses methodological approaches to assessing water supplies in snow cover using forestry interpretation data of Kanopus-V satellite imagery. The study analyses materials of snow survey implemented on the territory of Istra research station of All-Russian Research Institute of Forestry and Forestry Mechanization (FBU VNIILM), along with forest inventory data of 28 sampling plots. Determination of snow water supplies was carried out concerning its relationships with forest density, standing volume and number of trees. The research results are crucial while estimating snow water supplies using summer and winter satellite imagery to determine the main forest characteristics. Based on the study results zoning study area according to water content in snow cover for the period of February-March 2021 was implemented.

Key words: snow water supply, snow survey, snow cover, satellite imagery, Kanopus-V, forest stands, imagery interpretation, forest characteristics, standing volume, forest density, number of trees.

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