Original article

Methods of Radar Satellite Imagery Interpretation for Southern Siberia Mountain Forests

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Abstract. The paper discusses methods of radar imagery data interpretation from the Sentinel-1 satellite for obtaining forest characteristics. The applied algorithms of forest taxation interpretation are based on an integrated approach to the territory analysis considering features of forest growth and productivity, and various factors' influence degree on forest growth and formation processes. The developed methods of satellite imagery interpretation include mathematical models verified on a massive pull of forest taxation data from a network of trial plots.

Key words: forest taxation interpretation models, radar imagery data, Sentinel-1, specific radar cross-section, map, treeline, forest class, forest density, stock volume.

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