

ANALYSIS OF THE CHORNOBYL ZONE'S FORESTS STATE BASED ON THE RED EDGE POSITION WITH USE OF THE MULTISPECTRAL SPOT-4 IMAGES AND GROUND-BASED REFLECTANCE AND FLUORESCENCE SPECTRA RESEARCH

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The results of the ground-based research of visible reflectance and laser-induced fluorescence of pine (needles) at different stages of pine fungus damage, depending on crown position and content of incorporated radionuclides ^{137}Cs and ^{90}Sr , as well as the results of the remote sensing data of the Red Edge Position of pine forests growing in Chernobyl zone with use of multispectral SPOT-4 images are presented. It has been established that the remote sensing data, which take into account integral state of the tested territory is more effective for the detection of root sponge stress.