

Features deciphering species composition of forests of the Eastern Polissya  
of Ukraine on the basis of satellite imagery GeoEye

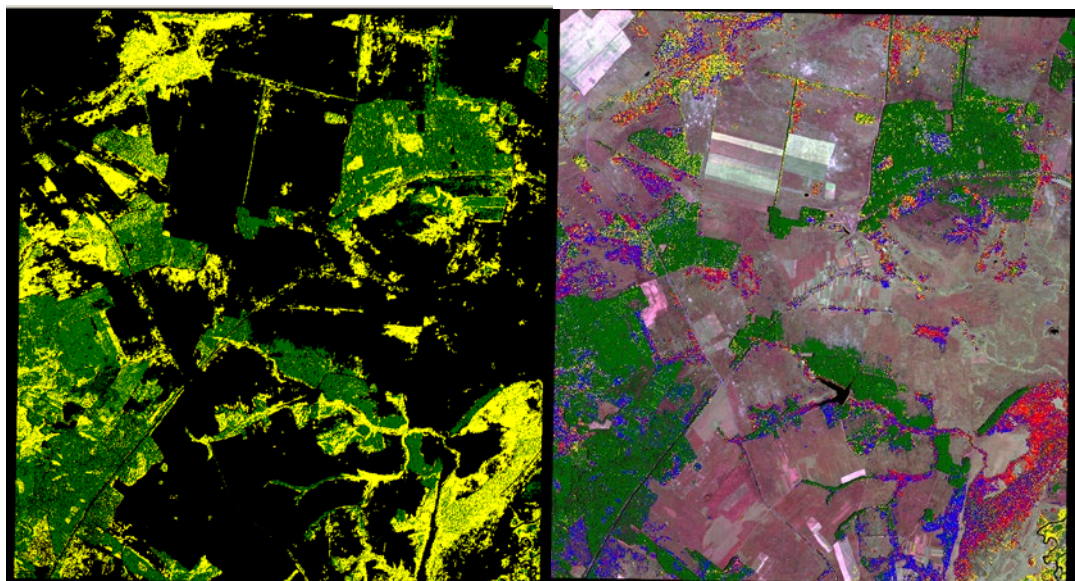
A.M. Bilous, O. V. Aleksin

National University of Life and Environmental Sciences of Ukraine

It is produced methodical peculiarities and the results of processing space picture GeoEye on the basis of driven classification method with the purpose to define the species composition for forest set of trees of experimental testing ground in the Eastern Polissya of Ukraine.

To research used experimental data collected by the results of field work (table.), satellite image GeoEye (Fig. 1) the part of the territory Shchors and Gorodnya district of Chernihiv region (Date 01.08.2012 g.) And software Erdas Imagine 10.0, which is one the best for the processing and analysis of space information. In the possibilities of the program implemented a wide range of tools and methods to quit-rents and analyzing geospatial raster data and aerospace.

Using the results of aboveground research, data of satellite images GeoEye, appropriate software tools and algorithms, in laboratory conditions can get a diagram (Fig.) growth of trees and area of each wood species of study territory.



a)

b)

Fig. Distribution of forest areas covered by forest vegetation of experimental groups of species (a) and mask of forest species satellite images GeoEye (b).

Obtaining this information can greatly reduce the amount of work for solve many problems of forest management and regulation of hunting grounds, and the widespread use of remote sensing data in forestry, will receive accurate information about the state forest fund for making effective management decisions.