Electronic remote sensing images atlas of the Eurasia big river deltas

Igor Zemlianov, Olga Gorelits

Research and Development Center ScanEx

ivz@pisem.net

Authors have suggested the project of the electronic scientific and educational atlas of the Eurasia big river deltas. River deltas are under constant interference of river and marine factors during the whole period of evolution, this interaction determines existence of unique natural environments. Since ancient times all large river deltas have been actively used by humans due to convenient arrangement and favorable natural conditions. The basic requirements to the atlas are an urgency and accessibility of the information as well as simplicity of use, therefore the Internet technologies were chosen for creation of the atlas. To ensure a broad geographical scope and further capability of continuous actualization of the Internet-Atlas contents, geoimages developed on the basis of remote sensing data on the Earth were chosen as an information database. In the test version of the Internet-Atlas the deltas of the Amur, Volga, Terek, Northern Dvina, Ob and Enisey rivers are presented. For development of the entire version the total amount of information base includes 335 geoimages of various spatial resolution for large river deltas of Eurasia from Research and Development Center ScanEx Image Archive. At the present stage of the Internet-Atlas development it is possible to solve the following problems with its help:1. Acquaintance of the main types of the river deltas.2. Study of the initial bases of the analysis of structure of the river deltas and hydrological and morphological processes.3. Study of the features of a structure and characteristic attributes of the river deltas of various types applying examples of synthesized multispectral remote sensing geoimages.