

EXPERIENCE IN COMPILING MAPS FOR ASSESSMENT THE STATE OF ECOSYSTEMS AT NATIONAL, REGIONAL AND LOCAL LEVELS (MONGOLIA AS AN EXAMPLE)

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To consider problems of rational nature management and nature protection, precise information on up-to-date state of ecosystems is required. Such information, both qualitative and quantitative, may be reflected at thematical assessment maps. A good experience in compiling maps of this kind, covering territories from all-state to local levels has been acquired in Mongolia, which is considered to be a good model for the Central Asia as a whole. For this purpose space photo-information was used. Its deciphering was controlled by ground surveys. A map (1:1000000) of up-to-date ecosystems and degree of their anthropogenic violence has been elaborated. Contour loading has the same scale. Assessment is done in marks, the same for all types of ecosystems. A coloured background shows up-to-date spreading of ecosystems; various hachures and indexes - the level of anthropogenic violence. Alongside with this summary variant, another one has been elaborated: ecosystems are marked only by indexes, while assessment of their state is marked by colour (5-mark scale). A map assessing the development of natural processes of desertification in Trans-Altai Gobi (1:200000) may serve a model of a regional map. Its compilation, based upon the map of natural desertification processes, made at space photo-plans of the same scale. The map reflects geological-geomorphological conditions of forming, landscape convey and assessment of the degree of desertification processes development. Assessment is done at a 5-mark scale. The whole complex of processes has been taken in mind (linear erosion, deflation, accumulation of sand and salinization). A local map (1:50000) is compiled for Eihin-Gool oasis, situated near springs in Trans-Altai Gobi. This map contains assessment of dynamics in desertification processes, where secondary salinization is prior. Map compilation was preceded by half-stationary investigations of many years. Assessment of dynamics in desertification processes is done at a 3-mark scale. Experience in compiling assessment maps of various territorial convey and scale, using space photo-information may be of interest not only for contiguous countries, but for other regions under extreme environmental conditions.