

# Creating of 3D Surface Models Using “Resurs-P” Spacecraft Images

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**Abstract.** At the present time the Russian Earth remote sensing spacecraft group includes two spacecraft of “Resurs-P” type that allow to perform stereo survey of the Earth surface on one orbit circuit. “Geoton” sensor images (panchromatic band with 1 meter resolution) were used to create the models. These models were created automatically by means of the digital photogrammetric station PHOTOMOD. The article contains the information about 3D surface models created from stereo pairs with different convergence angles for the same territory. It is noted that these models are compared with each other from the accuracy and completeness of objects’ reflection. The purpose of the comparison is to determine the optimal parameters for the Earth surface stereo survey.

**Key words:** “Resurs-P”, stereo survey, stereo pair, digital surface model