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Access to Phobos data at updated version of MExLab Planetary data Geoportal

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Abstract

To store results of planetary image processing and spatial surface analysis we are creating a Geoportal of Planetary Data. The first pilot version of information system as 2D web GIS (http://cartsrv.mexlab.ru/geoportal/) was based on Phobos data processed in frame of preparation for Phobos-Grunt mission [1].

New Geoportal will allow full and effective exploitation of data for planetary research with web access and interactive online tools for high-level analysis of planetary data. The web-platform organized as an online 3D web-GIS portal. The web-portal and applications have a unified basic interface, implemented using HTML markup. Based on the new software architecture [2], several cross-platform solutions are developed to integrate various collections of planetary data. Some executable applications that have been created using new software architecture and developed infrastructure will be presented at the conference.

References

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[2] Garov A.S., Karachevtseva I.P., Matveev E.V., Zubarev A.E., Patratiy V.D. (2016) Development of heterogenic distributed environment for spatial data processing using cloud technologies. 2016. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. XLI-B4, pp. 385-390, XXIII ISPRS Congress, 12–19 July 2016, Prague. doi:10.5194/isprs-archives-XLI-B4-385-2016/.