

Mission "Phobos-Grunt" Coordinate Support for Landing Site Position and the Further Phobos Mapping

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Abstract

Existing Phobos surface control point coordinate catalogues were analyzed. The features of each catalogue (the information on quantity, uniformity and accuracy of coordinate data) were obtained. It is noted that none of the catalogues can be used as a base for coordinate cartographic support of the «Phobos-Grunt» mission. That is why it is proposed to realize unordinary approach for constructing more informative DTM satisfied the requirements of a soft spacecraft landing on the Phobos surface by means of digital photogrammetric software "PHOTOMOD".