



Past missions - the best way to train future planetary researchers

Natalia Kozlova (1), Anastasiya Solodovnikova (1), Anatoly Zubarev (1), Andrey Garov (1), Vyacheslav Patraty (1), Alexander Kokhanov (1), Irina Karachevtseva (1), Irina Nadezhdina (1), Anatoly Konopikhin (1), Juergen Oberst (1,2,3)

(1) MIIGAiK, MExLab, Moscow, Russian Federation (natally.ko@gmail.com), (2) German Aerospace Center (DLR), Institute of Planetary Research, Berlin, Germany, (3) Technical University of Berlin (TUB), Germany

Practice shows that it is much more interesting and useful to learn from real examples than on imaginary tasks from exercise books. The more technologies and software improves and develops, the more information and new products can be obtained from new processing of archive information collected by past planetary missions.

So at MIIGAiK we carry out modern processing of lunar panoramic images obtained by Soviet Lunokhod missions (1970-1973). During two years of the study, which is a part of PRoViDE project (<http://www.provide-space.eu/>), many students, PhD students, young scientists, as well as professors have taken part in this research. Processing of the data obtained so long ago requires development of specific methods, techniques, special software and extraordinary approach. All these points help to interest young people in planetary science and develop their skills as researchers.

Another advantage of data from previous missions is that you can compare your results with the ones obtained during the mission. This also helps to test the developed techniques and software on real data and adjust them for implementation in future missions.

The work on Lunokhod data processing became the basis of master and PhD theses of MIIGAiK students and scientists at MExLab.

Acknowledgments: The research leading to these results has received funding from the European Community's Seventh Framework Programme (FP7/2007-2013) under grant agreement No 312377 PRoViDE.