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## Potentially interesting landing sites in the Polar Regions of the Moon

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Russian space agency is planning to launch two lunar landers in the upcoming years – Luna-25 and Luna-27. Instruments installed on board the landers are designed to study volatiles and water ice, lunar exosphere, dust particles and regolith composition. As primary scientific interest is concentrated in the polar region, the landing sites for both landers are selected there.

The landing site selection method primarily developed by our team for Luna-25 mission allowed us to select the main and reserved landing sites in the South Polar Region of the Moon [1]. Furthermore the method provided us with several scientifically interesting and safe for landing locations in the Polar Regions of the Moon. These locations can be considered as possible landing sites for future lunar lander missions, including Luna-27. The prioritization of these sites will be presented and the main parameters of the six most promising landing sites candidates (three in each Polar Region) will be discussed.

References: [1] Djachkova M. V., Litvak M. L., Mitrofanov I. G., Sanin A. B. Selection of Luna-25 landing sites in the South Polar Region of the Moon, Solar System Research, May 2017, Volume 51, Issue 3, pp 185–195.