Lunar hole-structures as candidates of future lunar landing projects

Junichi Haruyama\textsuperscript{1*}, Motomaro Shirao\textsuperscript{2}, Kensei Kobayashi\textsuperscript{3}, Shin-ichi Yokobori\textsuperscript{4}, Takahiro Iwata\textsuperscript{1}, Tomokatsu Morota\textsuperscript{1}, Shingo Kobayashi\textsuperscript{1}, Yoshifumi Saito\textsuperscript{1}, Masaki N Nishino\textsuperscript{1}, Hirofumi Hashimoto\textsuperscript{1}, Masamichi Yamashita\textsuperscript{1}, Yasuhiro Kawakatsu\textsuperscript{1}

\textsuperscript{1}Japan Aerospace Exploration Agency, \textsuperscript{2}Institute of Planetary Geology, \textsuperscript{3}Yokohama National University, \textsuperscript{4}Tokyo Univ. of Pharmacy and Life Science

SELENE Terrain Camera discovered three huge hole-structures exceeding several ten meter diameters and depths on the Moon, which may be associated with underlying lava tubes. These lunar hole-structures and lunar lava tubes are possible targets of future lunar landing missions.

Keywords: Moon, hole, lava tube, SELENE, Kaguya, exploration