

COVER ILLUSTRATION

Caption: View looking over the Moon's south pole from the far side, with 20 km diameter Shackleton crater in the foreground, generated in Lunar QuickMap, with the Diviner Lunar Radiometer Experiment (DLRE) polar summer maximum temperature data overlain on Lunar Reconnaissance Orbiter Cameras (LROC) Wide Angle Camera (WAC) morphologic basemap with the DLRE layer opacity set to 50% (see <https://bit.ly/3s9qKVH>). The colors represented in the DLRE overlay correspond to surface temperatures ranging from an astoundingly cold <50 K (dark blue) to a toasty 350 K or more in sunlight (red to yellow).† The Earth would be visible on the lunar horizon from this perspective. This image of the Earth was taken by the LROC Narrow Angle Cameras (NAC) and colorized using visible bands from the Wide Angle Camera (see <http://lroc.sese.asu.edu/posts/231>). In this image of Earth one can see the western hemisphere as it would appear from the south pole of the Moon, with North America in the lower right and South America in the upper left. The Earth images were taken on August 9, 2010 (LROC NAC E136013771 [NASA/GSFC/Arizona State University]). We acknowledge the use of imagery from Lunar QuickMap (<https://quickmap.lroc.asu.edu>), a collaboration between NASA, Arizona State University & Applied Coherent Technology Corp.

†Reference for the DLRE data: Williams JP et al. (2019) Seasonal polar temperatures on the Moon. *J. Geophys. Res. Planets* 124:2505–2521. <https://doi.org/10.1029/2019JE006028>.

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THE MINERALOGICAL SOCIETY OF AMERICA

3635 CONCORDE PARKWAY, SUITE 500

CHANTILLY, VIRGINIA, 20151-1125, U.S.A.

WWW.MINSOCAM.ORG

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