DREAM2 STUDIES IN SUPPORT OF HUMAN EXPLORATION OF THE MOON. W. M. Farrell[1], R. M. Killen[1], G. T. Delory[2], and the DREAM2 team, 1. NASA/Goddard Space Flight Center, Greenbelt, MD, 2. University of Californian at Berkeley, Berkeley, CA (William.M.Farrell@nasa.gov)

DREAM2 is a modeling, laboratory, and data center that examines the space environment at airless bodies, including the Moon. Many of tasks in this center focus on new exciting science findings, but many of these topics also have direct applicability to the advancement of human exploration of the Moon.

In this poster, we present a gallery of topics addressed by DREAM2 since 2014. These exploration-supporting topics include astronaut and rover charging, the complex electrical environment in polar craters, Earth-shine, dust cohesion, polar cold trapping, the lunar hydrogen cycle, radiation and astronaut safety, deep dielectric discharge, spacecraft outgassing, and support of the HEOMD funded Resource Prospector mission.