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Lunar Reconnaissance Orbiter (LRO) Lyman Alpha Mapping Project (LAMP) Maps of the Permanently Shaded Regions (PSR) at the Lunar Poles PAUL ROJAS, St. Marys University, San Antonio, Texas, KURT RETHERFORD, RANDALL GLADSTONE, Southwest Research Institute, San Antonio, Texas, ALAN STERN, ANTHONY EGAN, Southwest Research Institute, Boulder, Colorado, PAUL MILES, Southwest Research Institute, San Antonio, Texas, JOEL PARKER, DAVID KAUFMANN, Southwest Research Institute, Boulder, Colorado, DAVID HORVATH, THOMAS GREATHOUSE, MAARTEN VERSTEEG, Southwest Research Institute, San Antonio, Texas, ANDREW STEFFL, Southwest Research Institute, Boulder, Colorado, JOEY MUKHERJEE, MICHAEL DAVIS, DAVID SLATER[1], AMANDA BAYLESS, Southwest Research Institute, San Antonio, Texas, PAUL FELDMANN, John Hopkins University, Baltimore, Maryland, DANA HURLEY, John Hopkins University Applied Physics,Laurel, Maryland, WAYNE PRYOR, Central Arizona College, Coolidge, Arizona, AMANDA HENDRIX, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California — The Lunar Reconnaissance Orbiter (LRO) is currently in orbit around the moon. The Lyman Alpha Mapping project (LAMP) instrument on-board LRO is a UV spectrograph covering the spectral range of 57-196 nm. LAMP produces exquisite 240m/pixel far-UV maps. The instrument sensitivity is optimized for faint measurements. We present Lyman-alpha and far-UV albedo maps of the north and south poles with comparisons to topographic and other LRO datasets.

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