

REQUIRED PRE-PLANNING REGOLITH DATA

TYPE OF REGOLITH DATA REQUIRED	SOURCE	QUALITY NOW AVAILABLE	PRIORITY	MEANS OF ACQUIRING BETTER DATA
Depth/Maturity of Regolith	Apollo surface investigations Lunar Orbitor, Apollo, and Clementine orbital remote sensing of crater ejecta	A	1	
2D ³He Concentration/Distribution	Apollo samples Clementine remote sensing	C (lack of care in sample handling/need for Ti surrogate)	1 (unless current values meet net profit needs)	Surface mass spectrometer Orbital gamma-ray spectrometer
3D ³He Concentration/Distribution	Apollo cores	B	1	
2D Ti Concentration/Distribution	Apollo samples Clementine remote sensing	B	1	
3D Ti Concentration/Distribution	Apollo cores Clementine and Lunar Prosp.	B	1	

	remote sensing of crater ejecta			
3D Particle-Size Distribution	Apollo cores	B	1	
3D Boulder Concentration/Distribution	Lunar Orbitor, Apollo, and Clementine orbital Photos	B	2 (Must be prepared to handle any way)	
Hydrogen for Use in Operations	Apollo samples	A	2 (Could supply from other sources)	

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