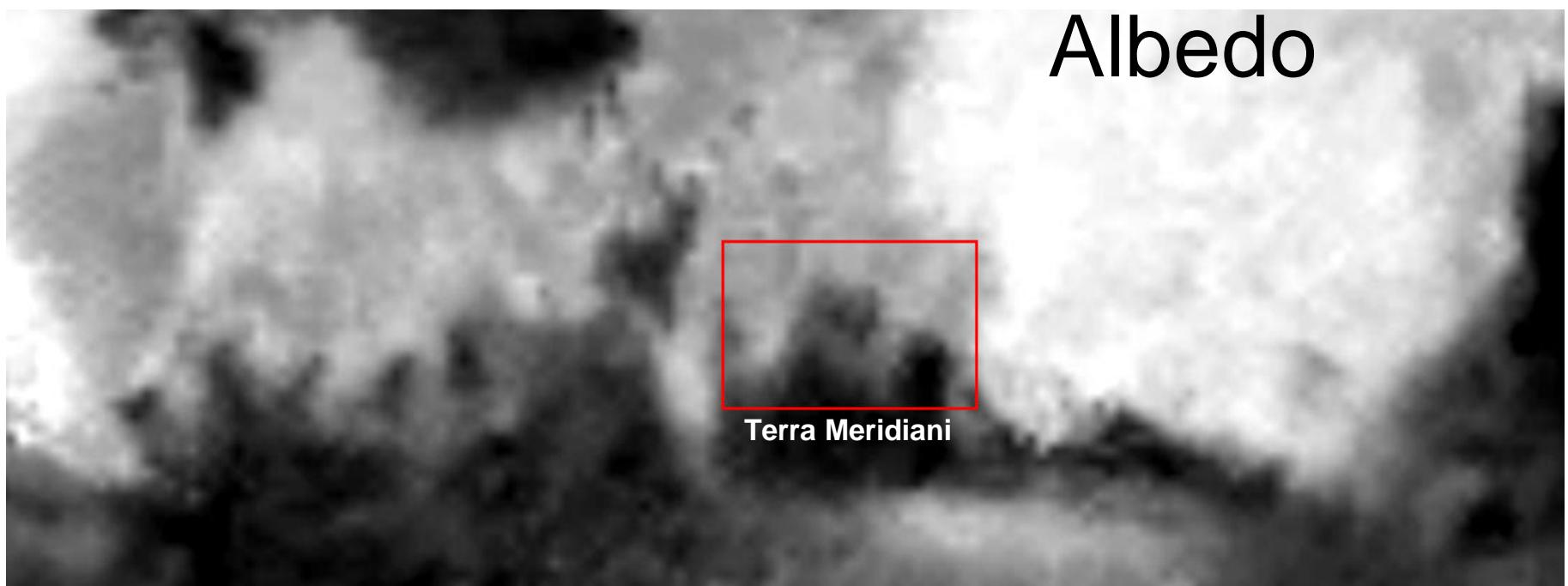
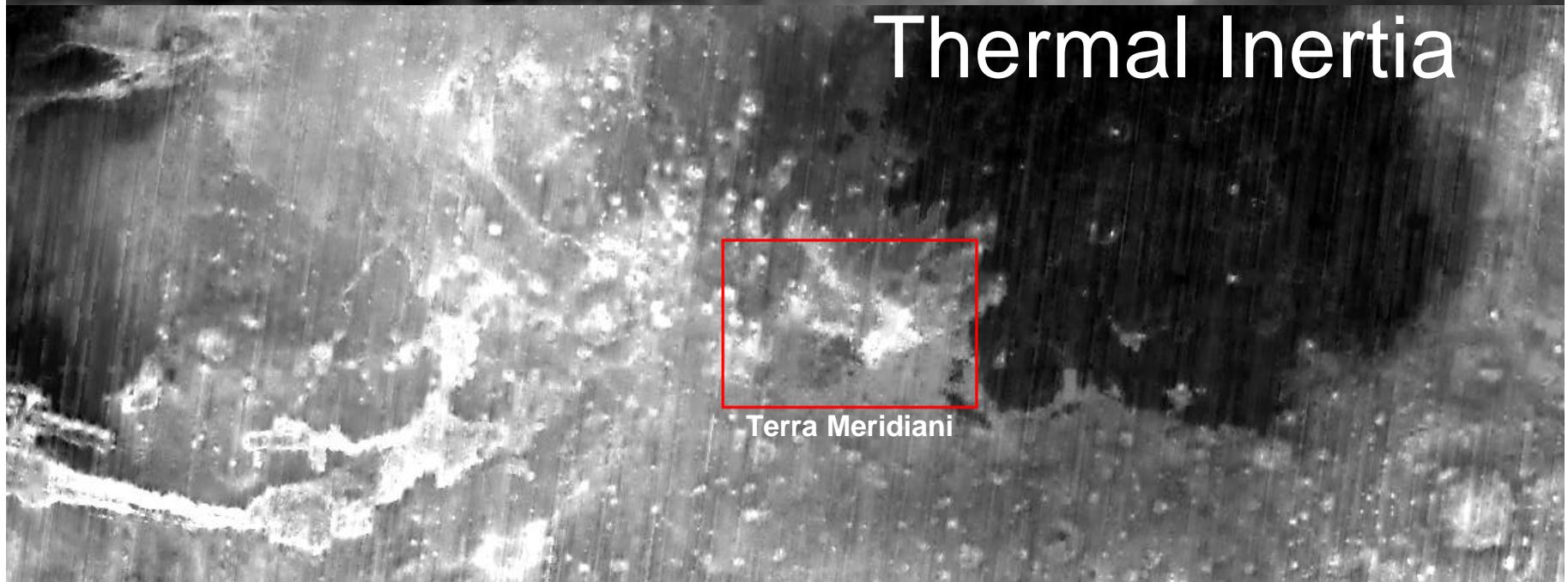


Remote Sensing Properties of Terra Meridiani, Mars

Albedo



Thermal Inertia



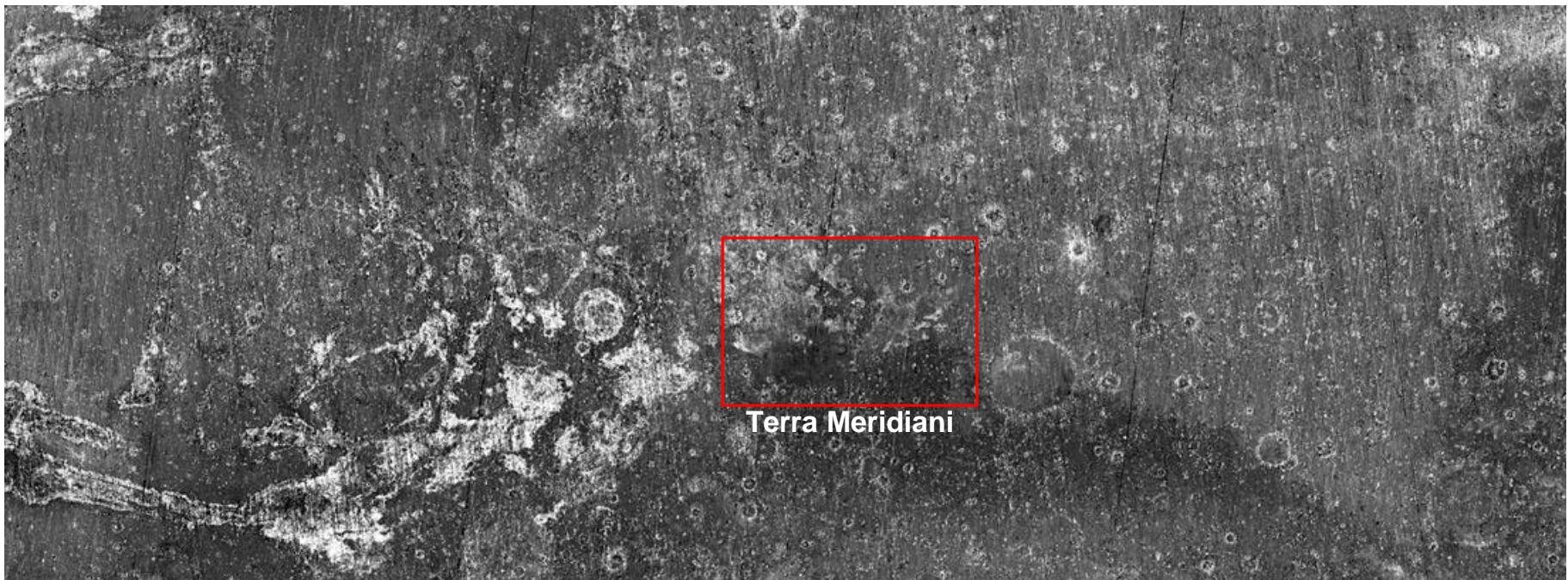
Terra Meridiani



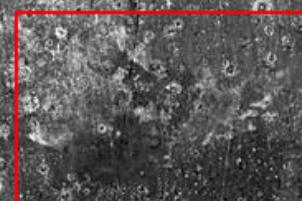
Albedo



Terra Meridiani

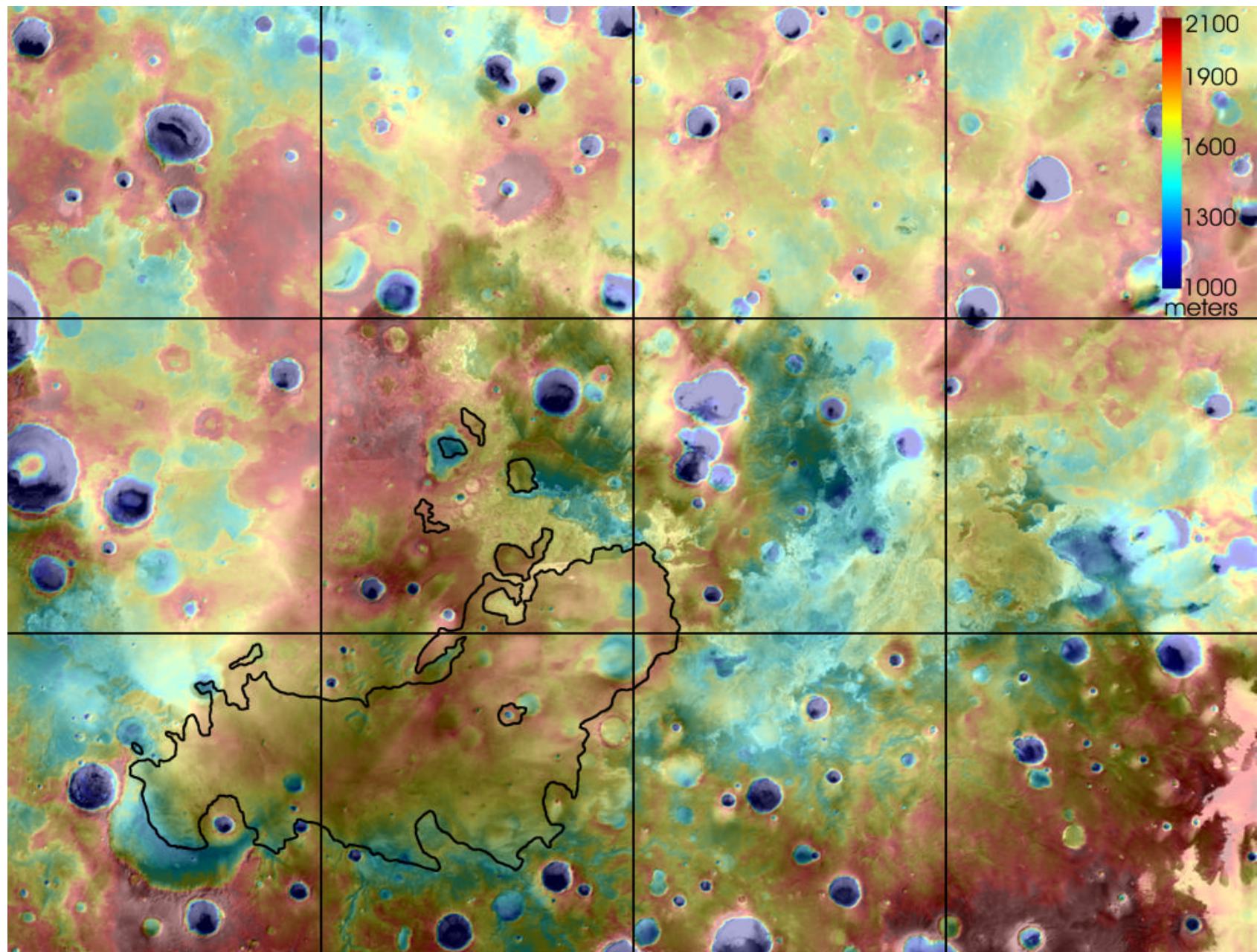


MOLA Pulsewidth

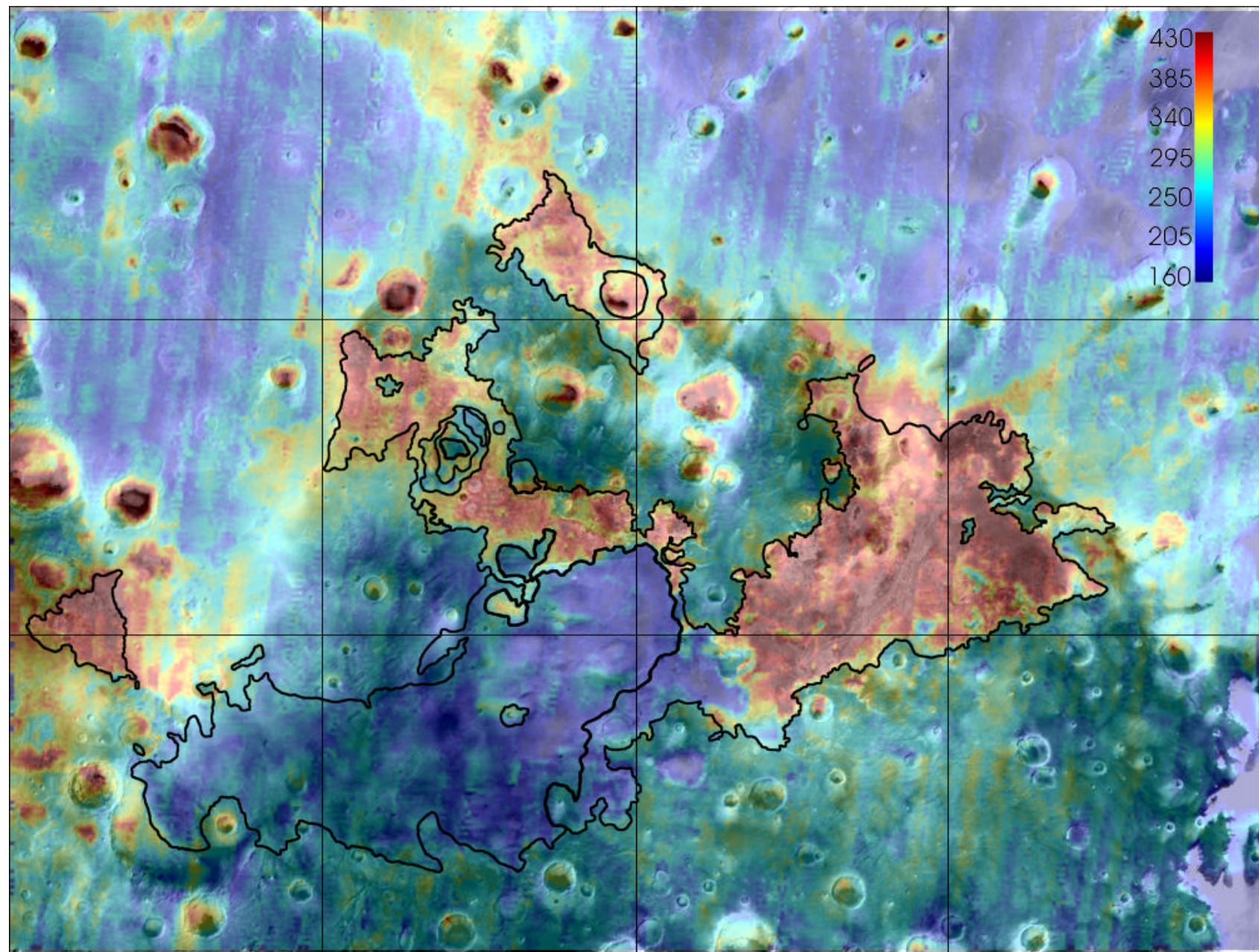


Terra Meridiani

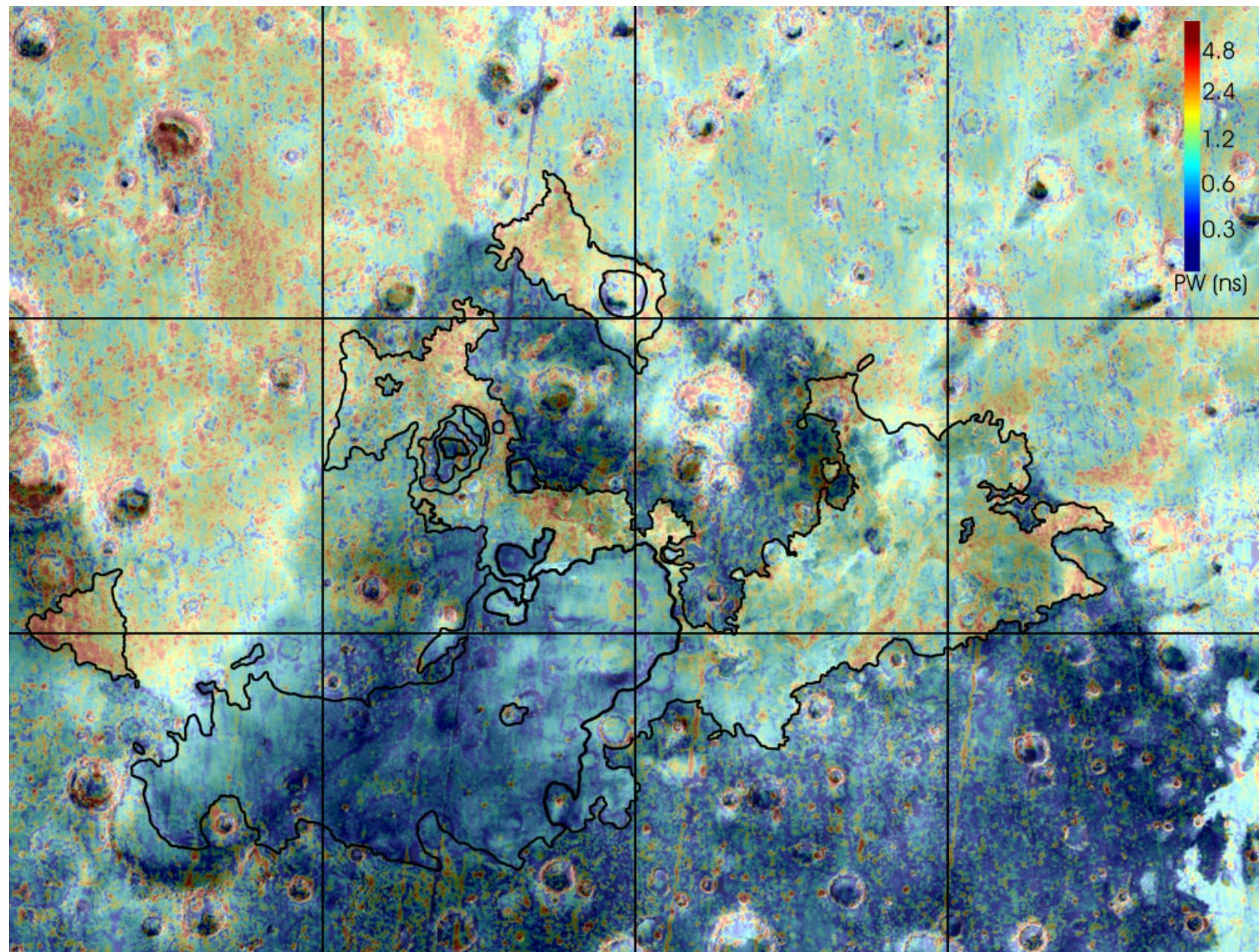
MOLA over MOC WA Mosaic



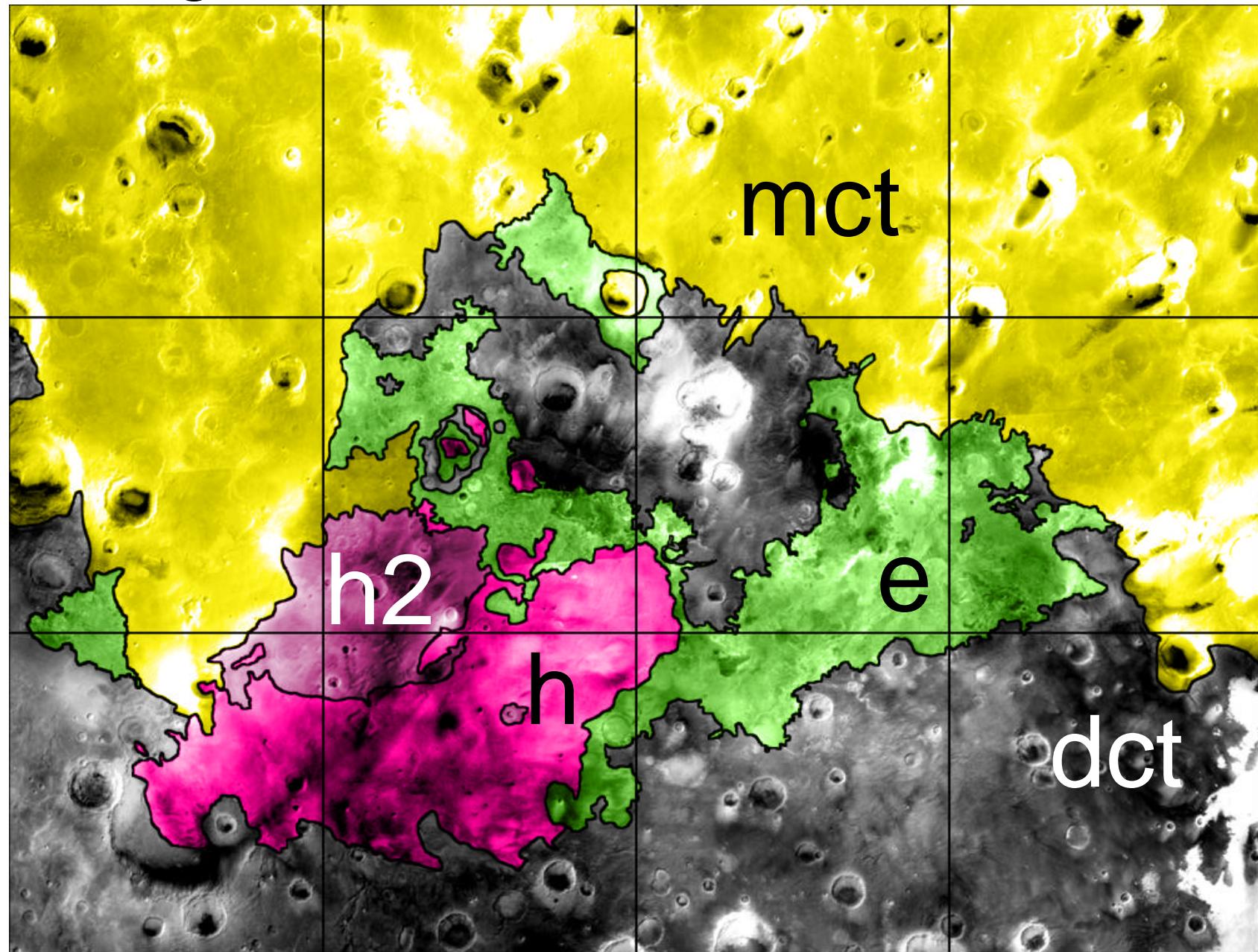
Thermal Inertia over MOC WA Mosaic



MOLA Corrected Pulsewidth over MOC WA Mosaic



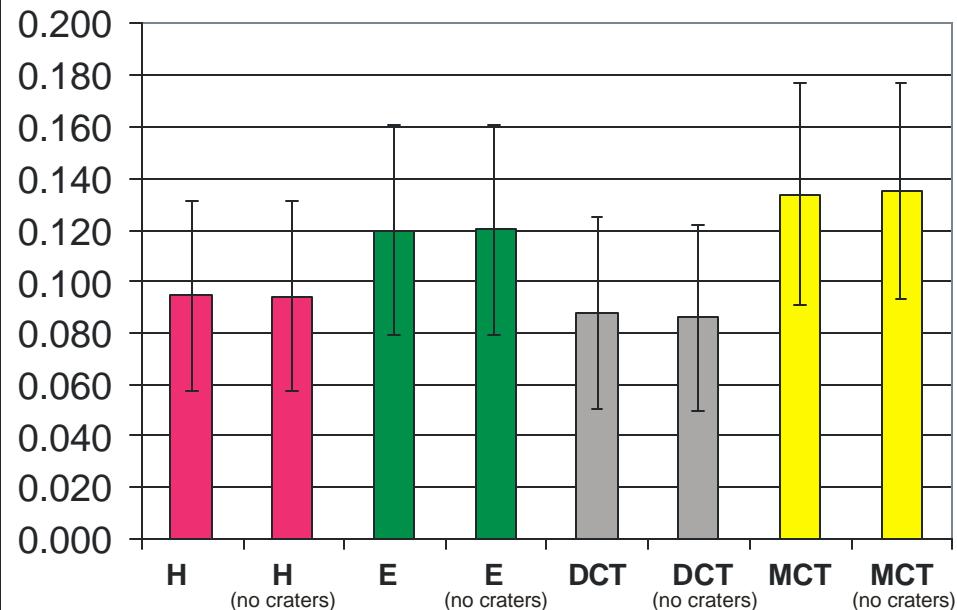
Geologic Units over MOC WA Mosaic



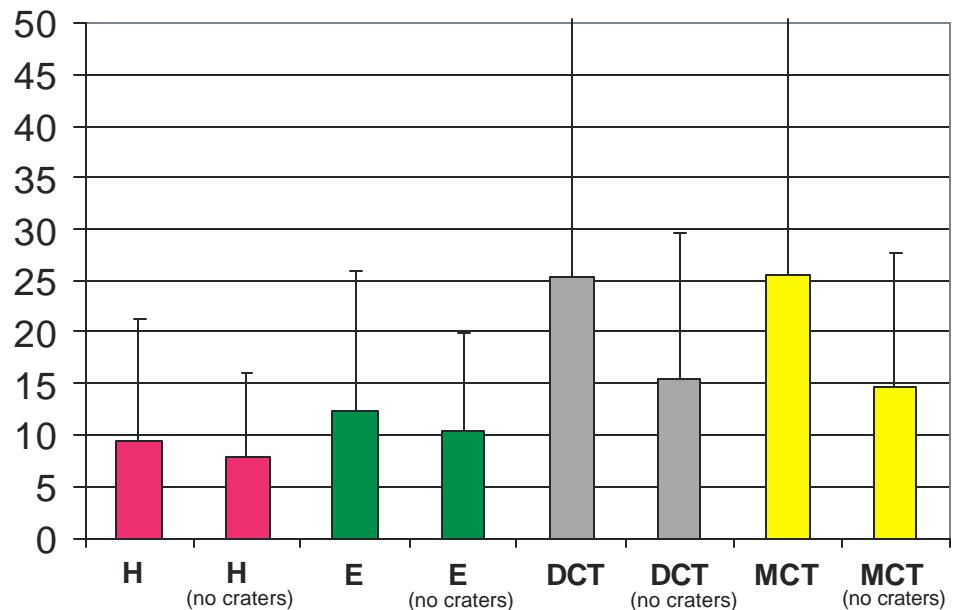
Statistics

	MOLA Reflectivity		MOLA Gradient (m/km)		MOLA CPW (ns)		TES TI J/m ² Ksqrt(s)	
	Mean	Stdev	Mean	Stdev	Mean	Stdev	Mean	Stdev
MCT	0.134	0.043	25.706	39.268	1.396	1.057	233.09	59.51
w/o craters	0.135	0.042	14.832	12.867	1.340	0.827	226.88	53.27
H	0.095	0.037	9.444	11.853	0.675	0.375	210.36	28.02
w/o craters	0.094	0.037	7.983	8.080	0.676	0.347	210.65	26.92
E	0.120	0.041	12.312	13.602	1.368	0.897	349.86	77.36
w/o craters	0.120	0.041	10.391	9.548	1.346	0.836	360.99	76.58
DCT	0.088	0.037	25.352	37.429	0.830	0.731	274.22	22.39
w/o craters	0.086	0.036	15.411	14.285	0.815	0.670	253.26	39.40

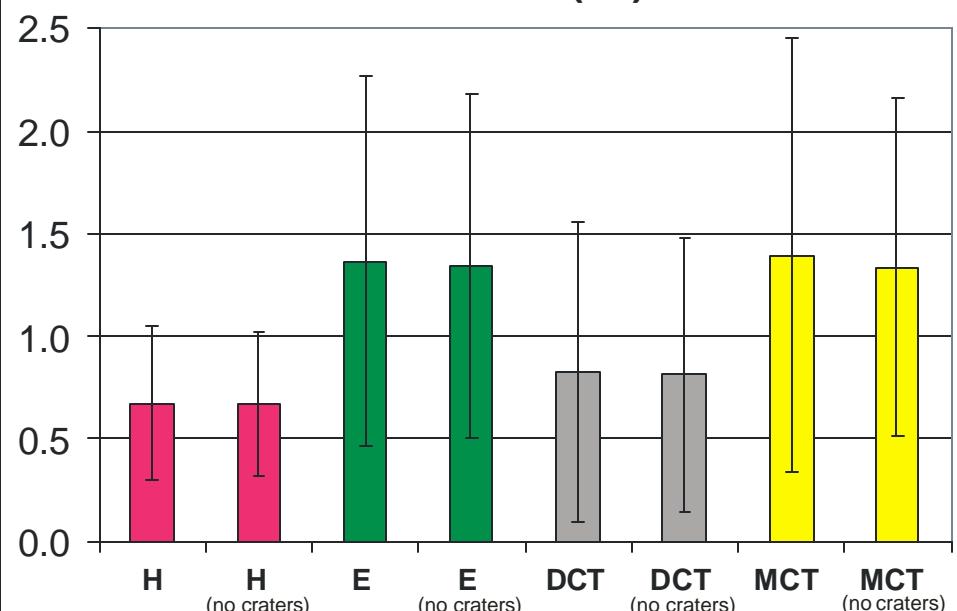
MOLA Reflectivity



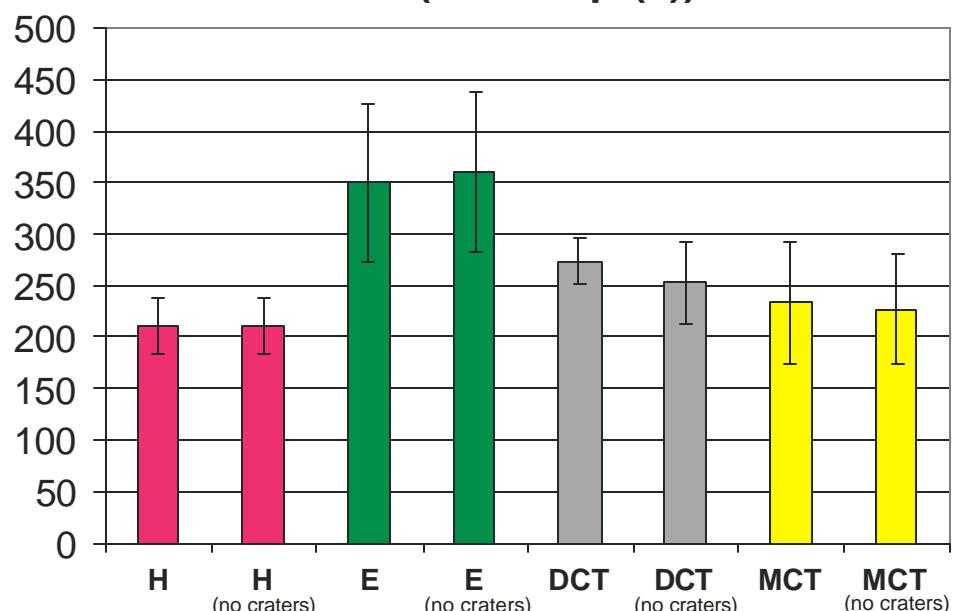
MOLA Gradient (m/km)



MOLA CPW (ns)



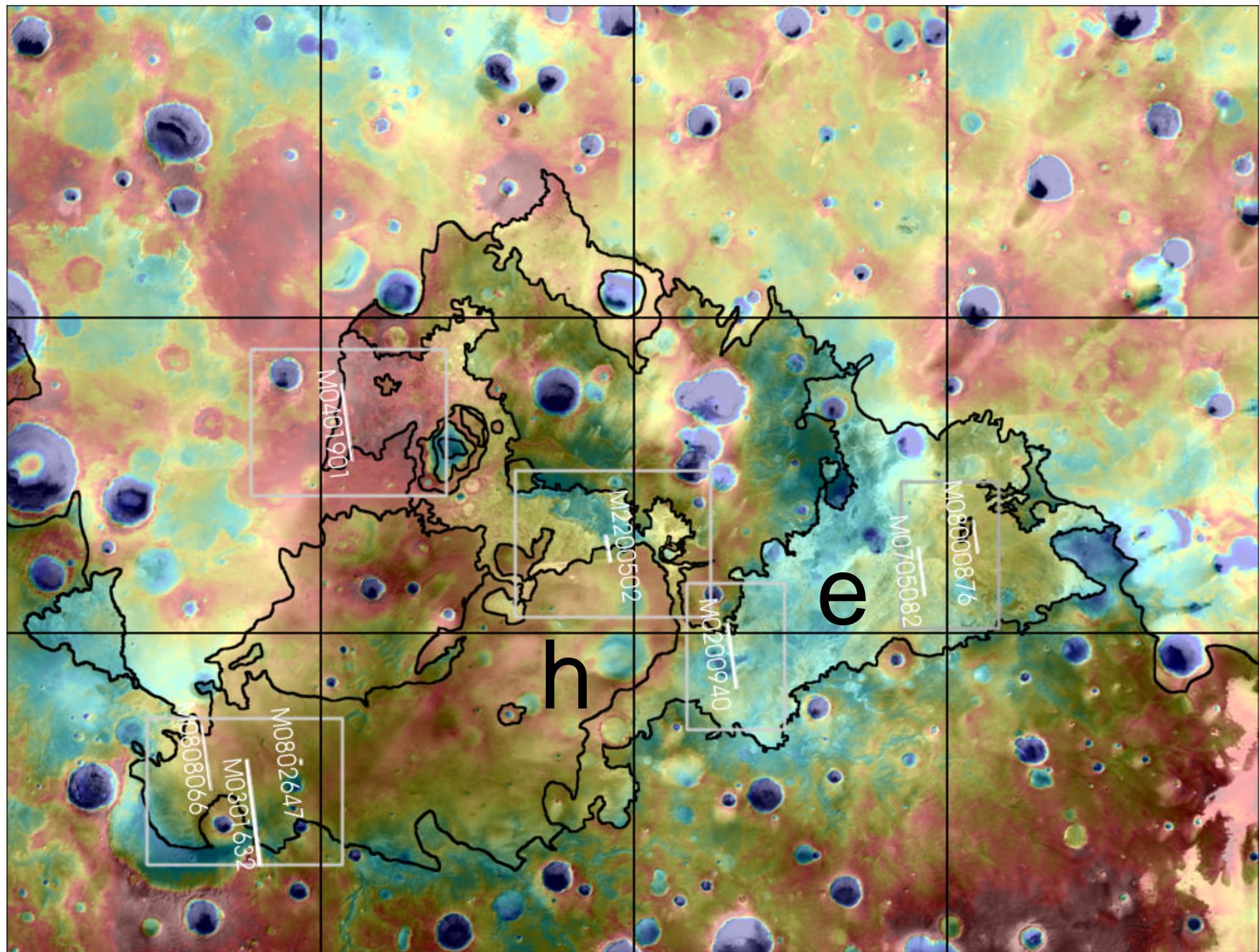
TES TI ($\text{J}/\text{m}^2\text{Ksqrt(s)}$)



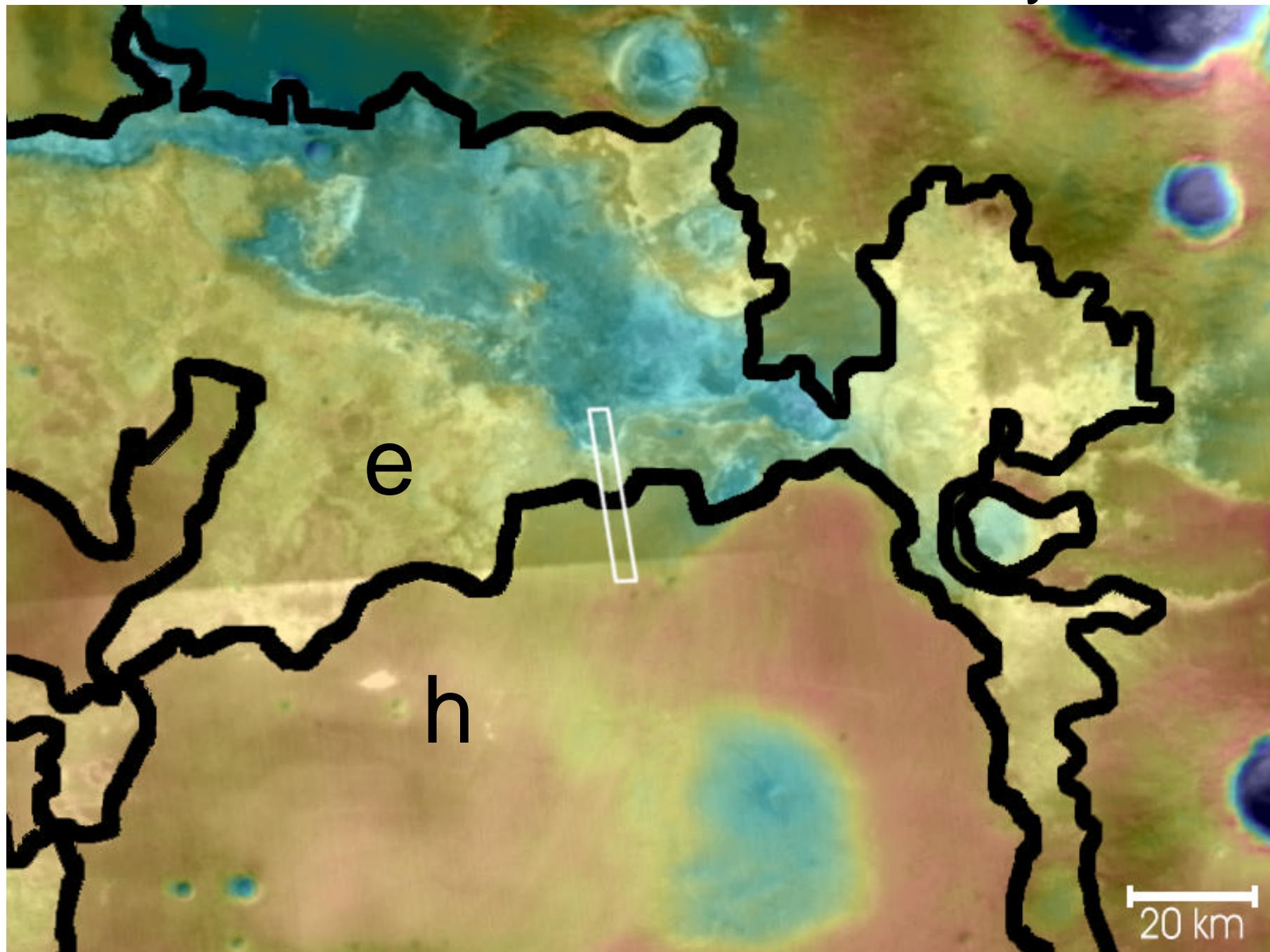
Geologic History

- Dissection of Cratered Terrain
- Deposition of Etched and Hematite layered deposits (lacustrine or volcaniclastic?)
- Aqueous and/or hydrothermal alteration of etched and hematite units?
- Mantling by aeolian deposits, with formation of duricrust
- Exhumation by wind leading to hematite and etched unit exposures (both exposed within landing error ellipse?)

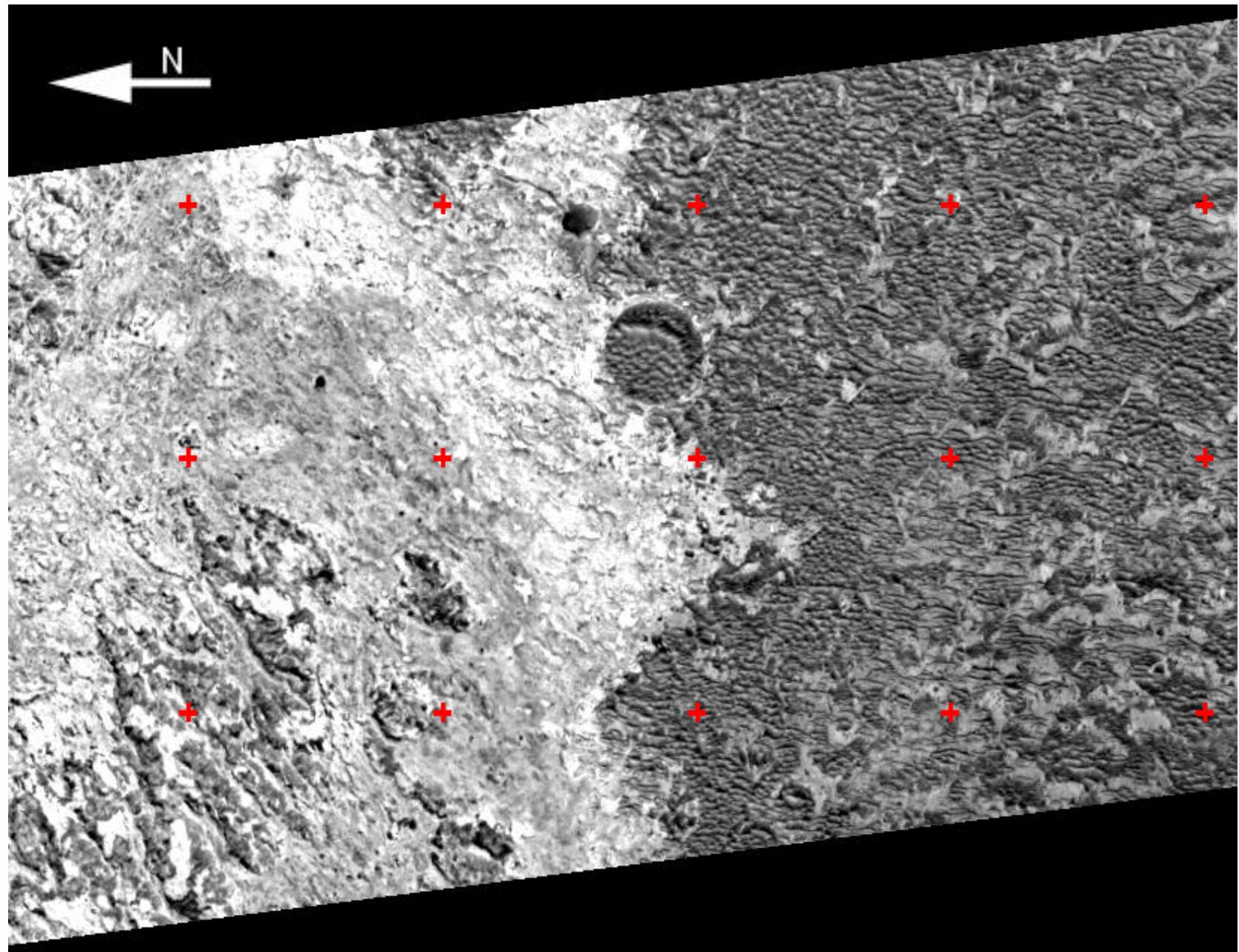
WA with units and NA frames



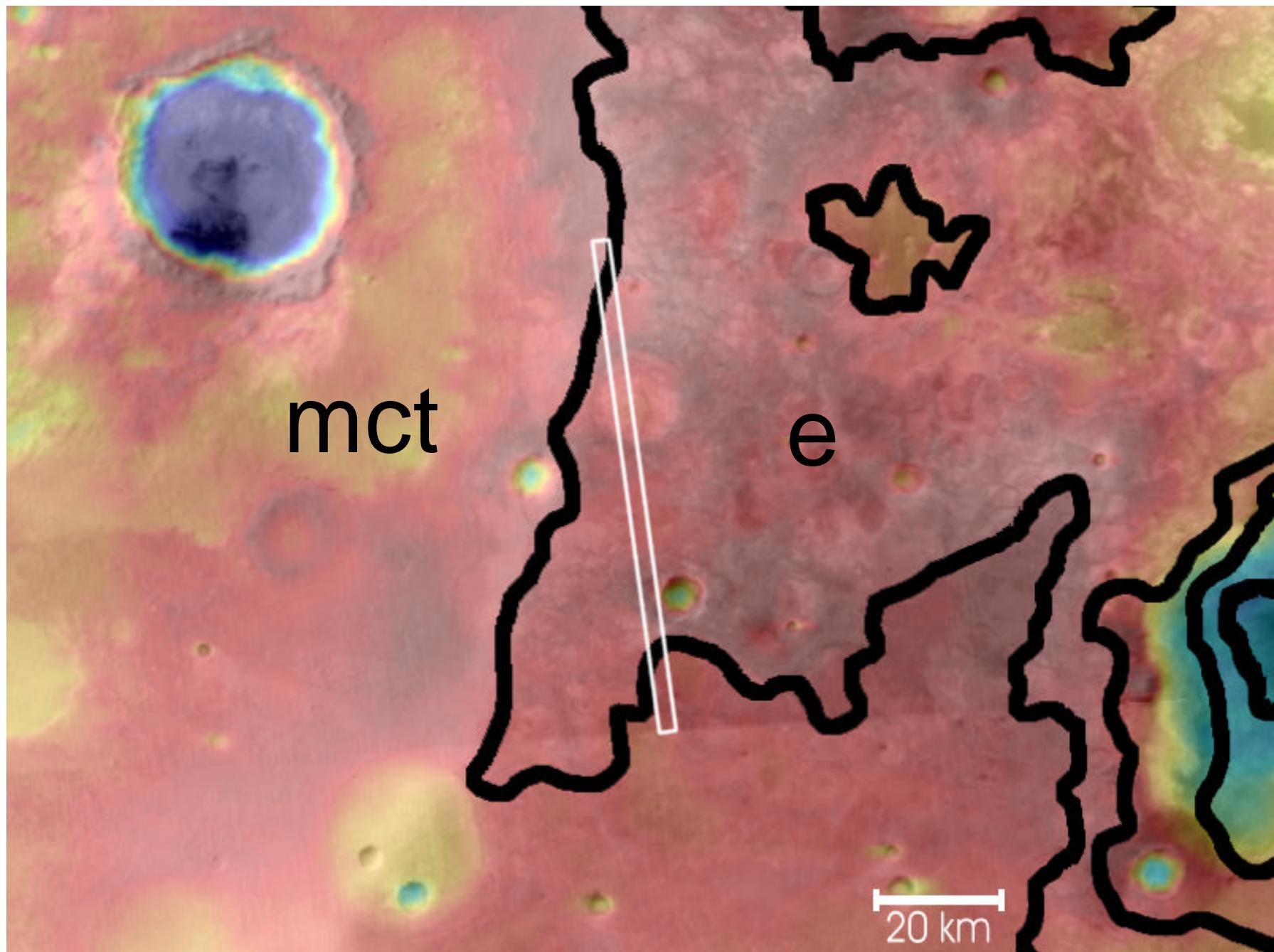
WA northern hematite boundary



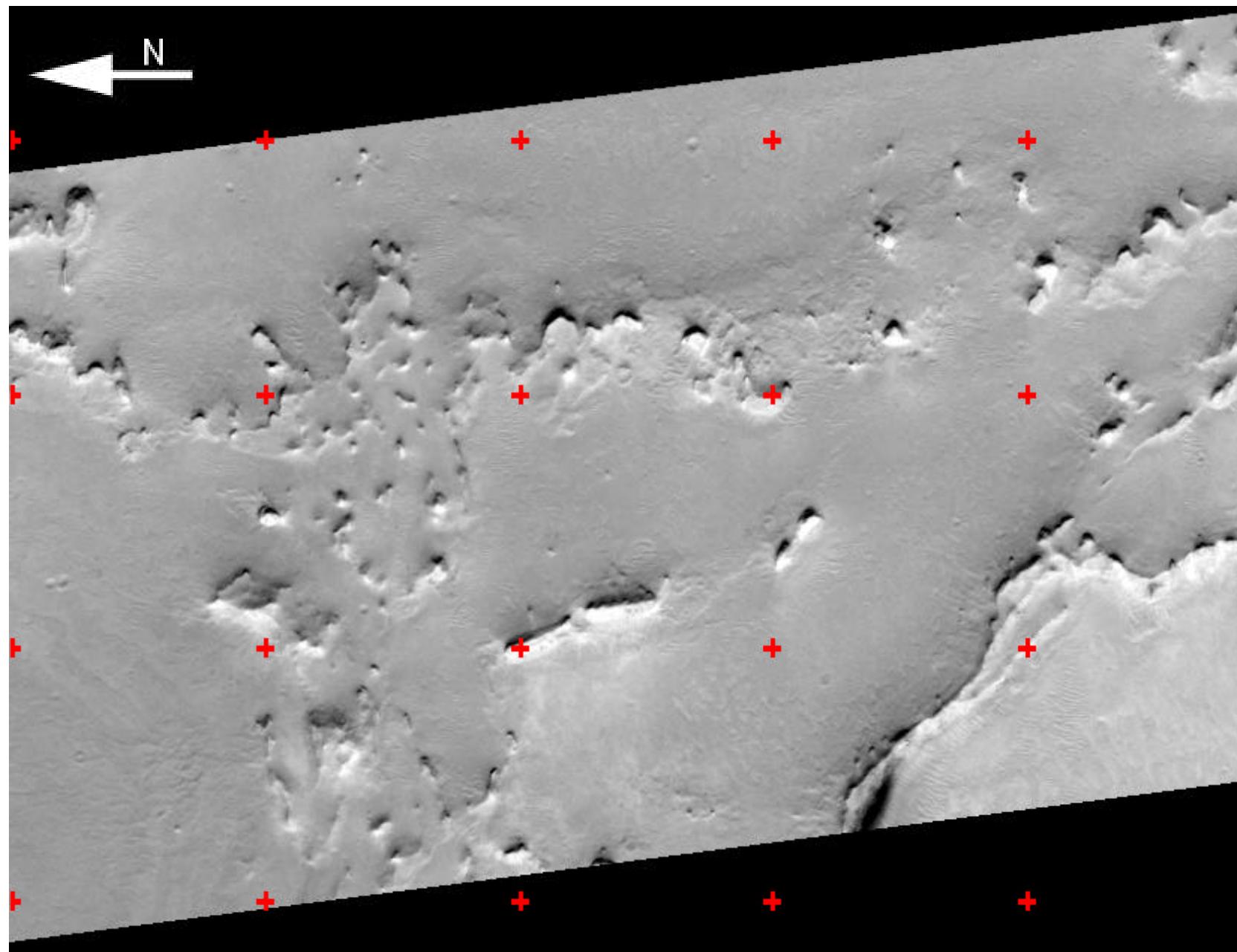
MOC NA M2200502



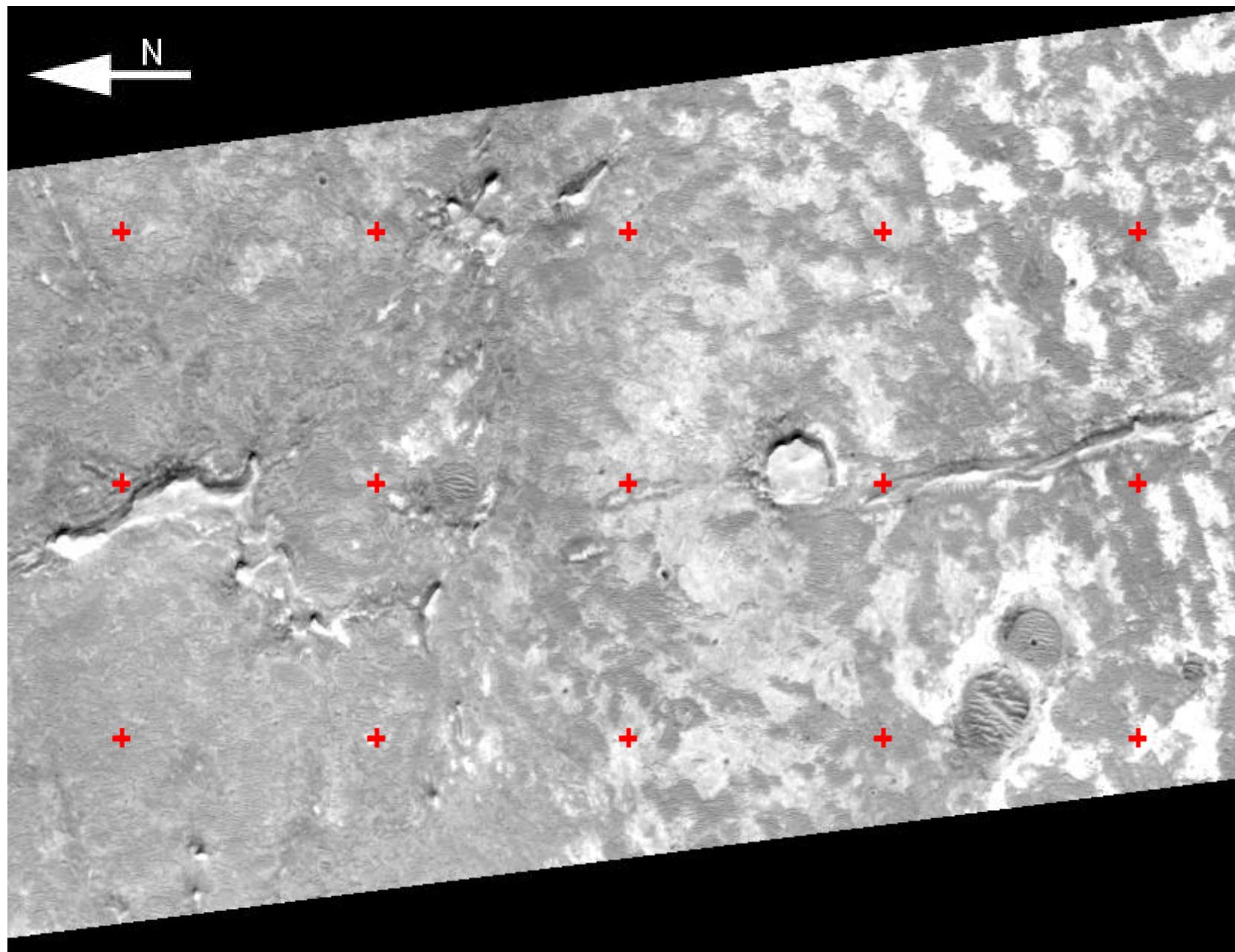
MOC WA mantled to non-mantled etched



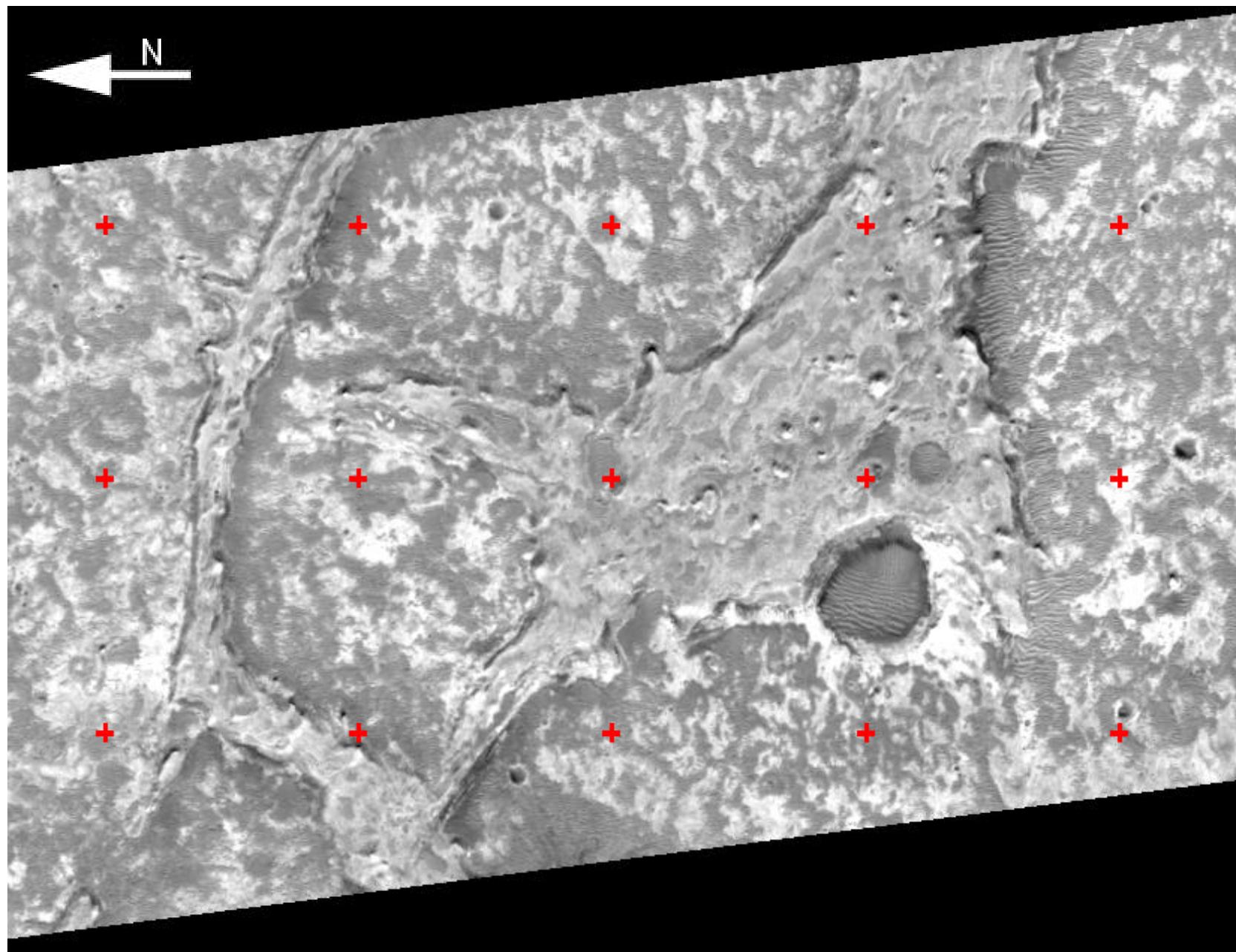
MOC NA M0401901



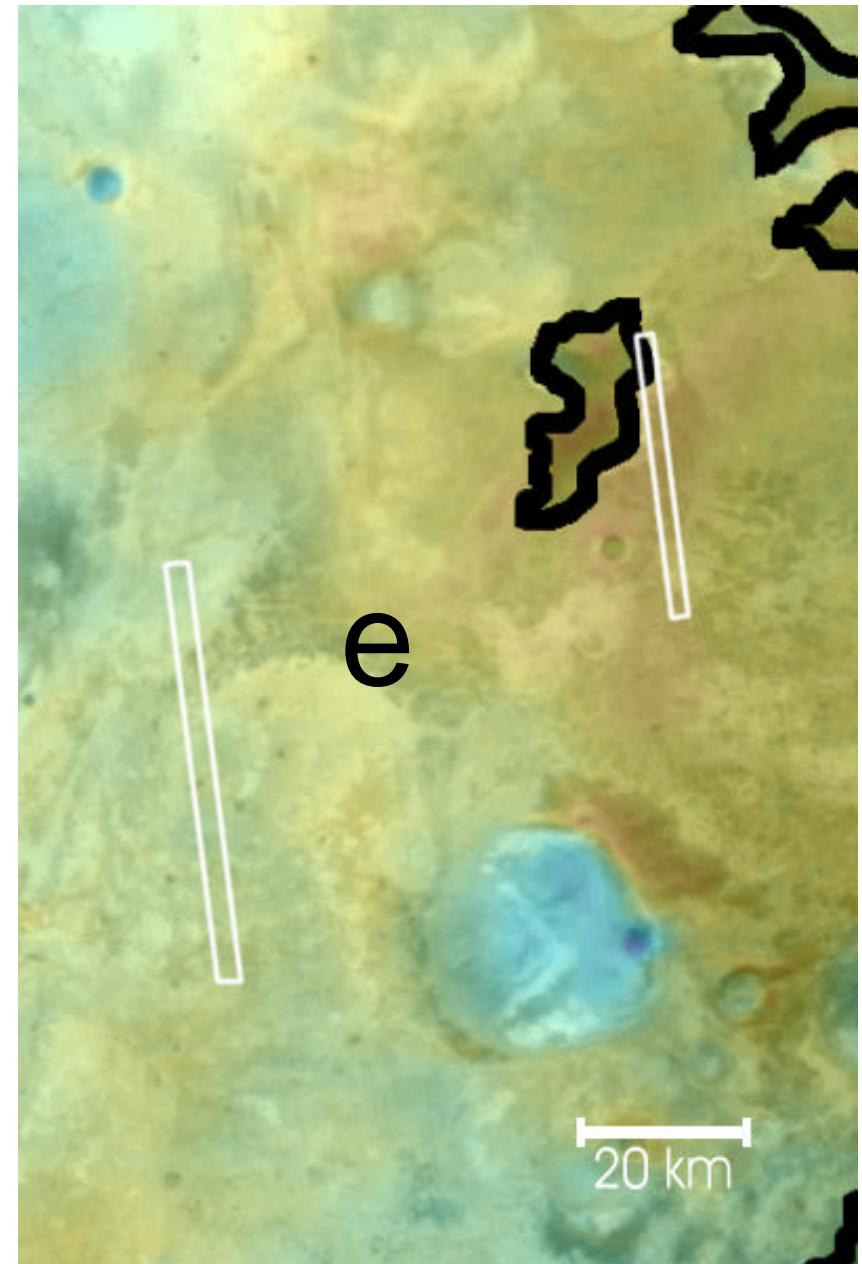
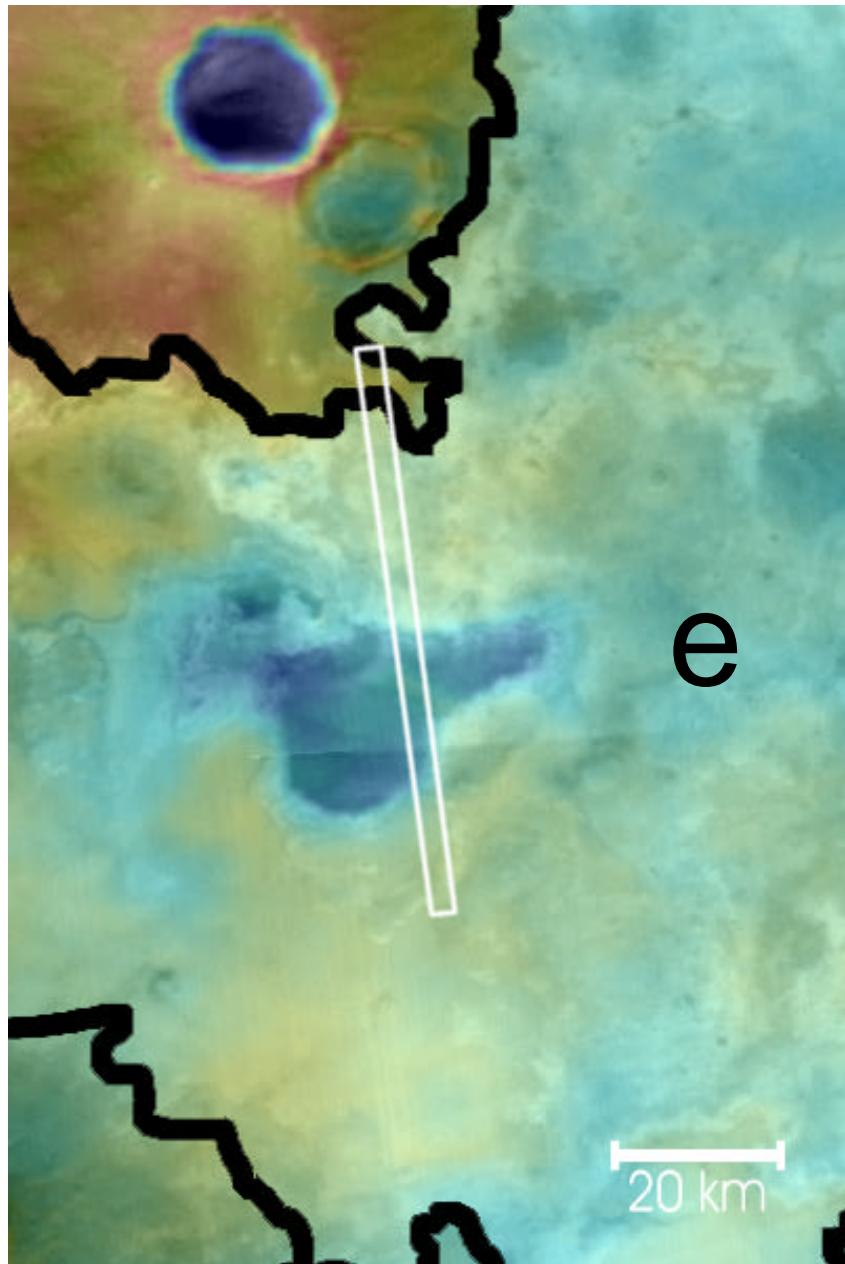
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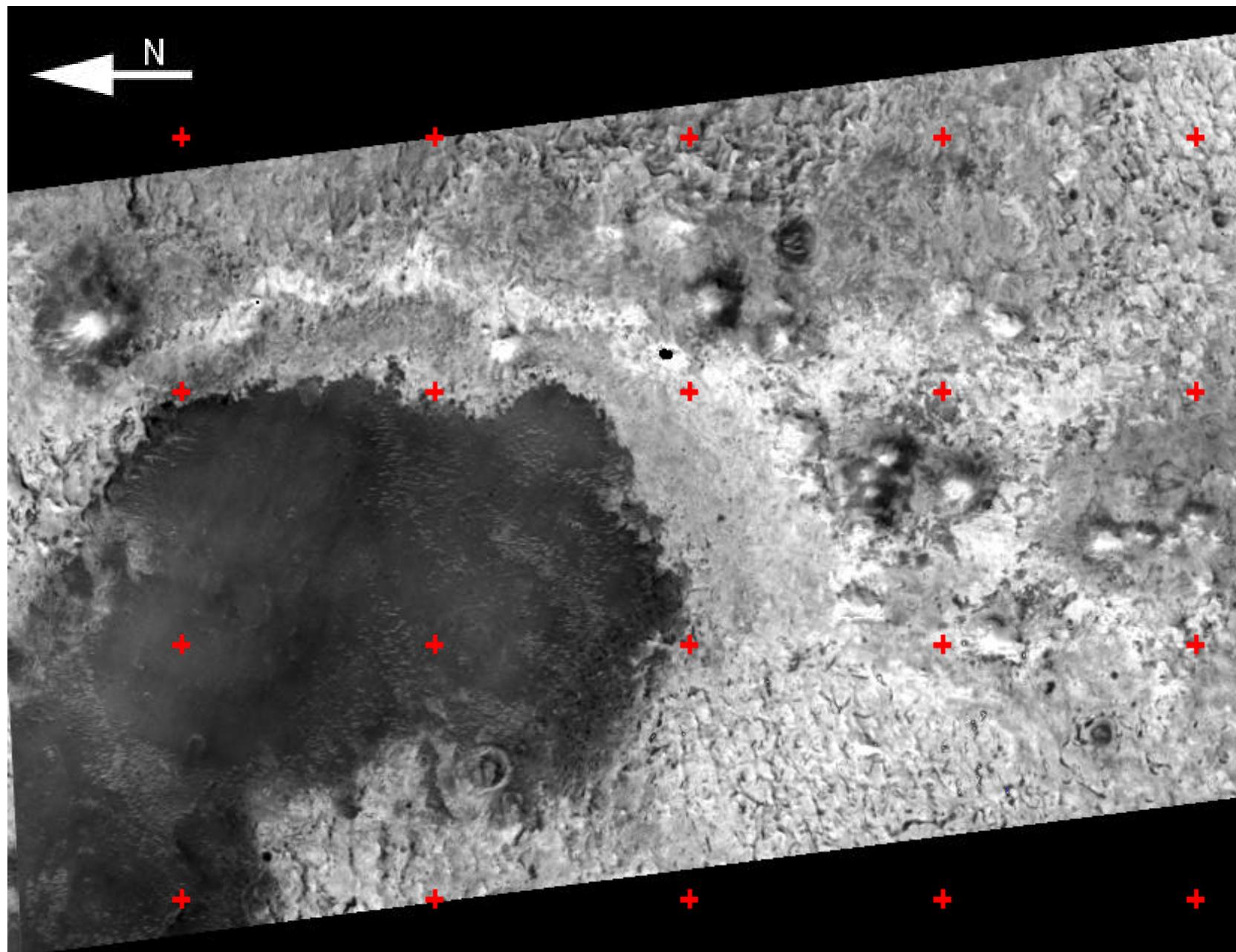
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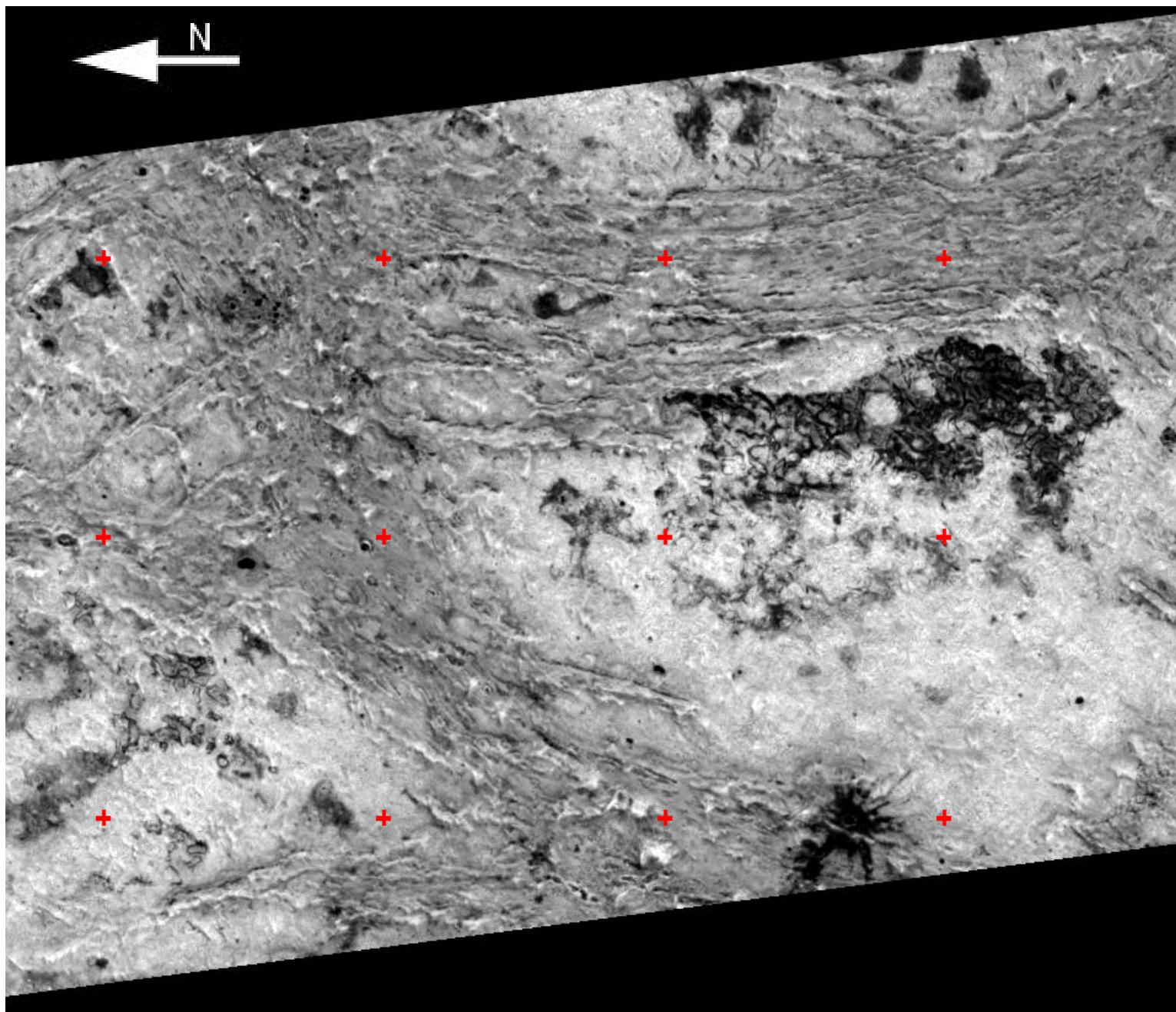
MOC WA etched properties



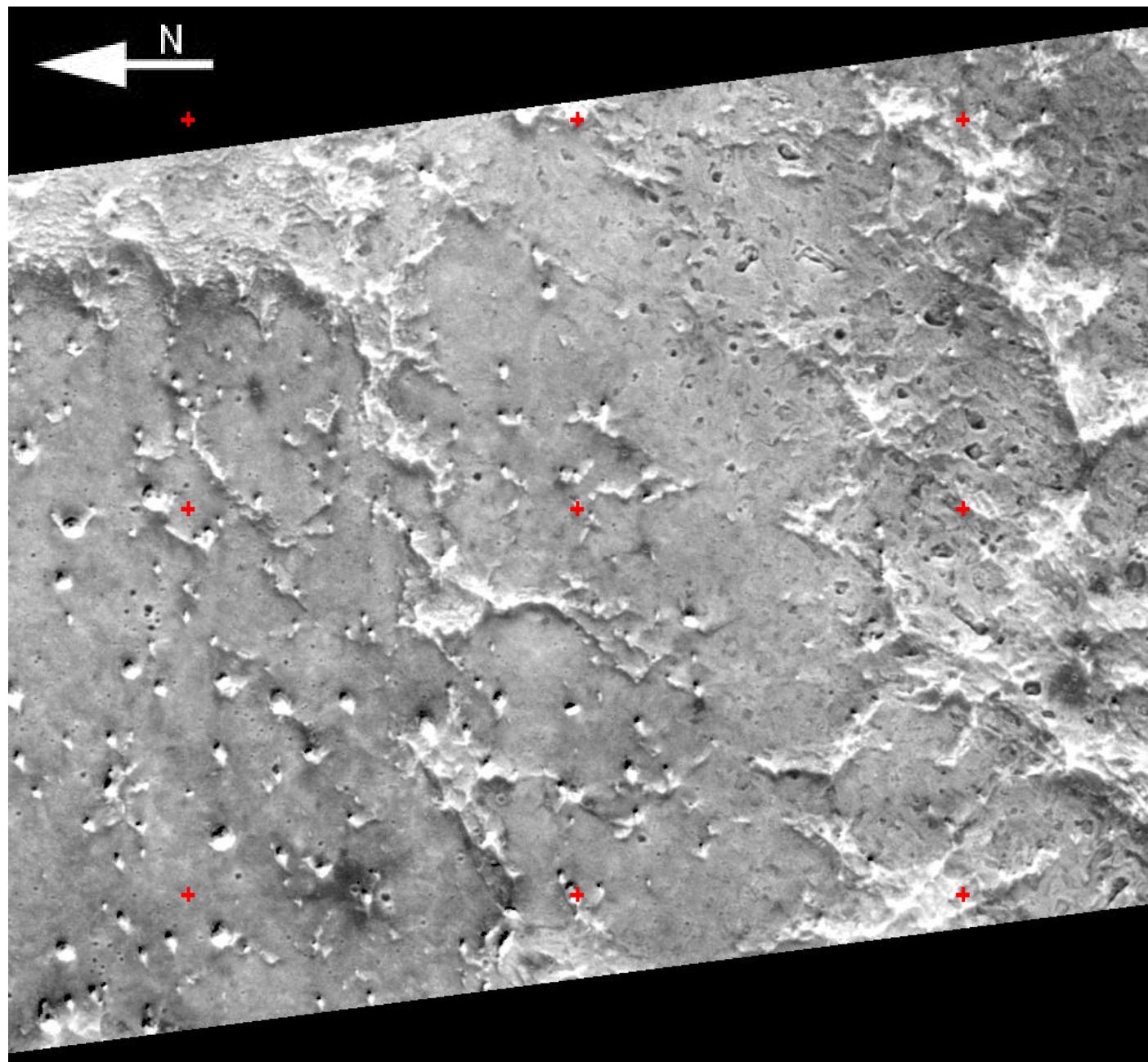
MOC NA M0200940



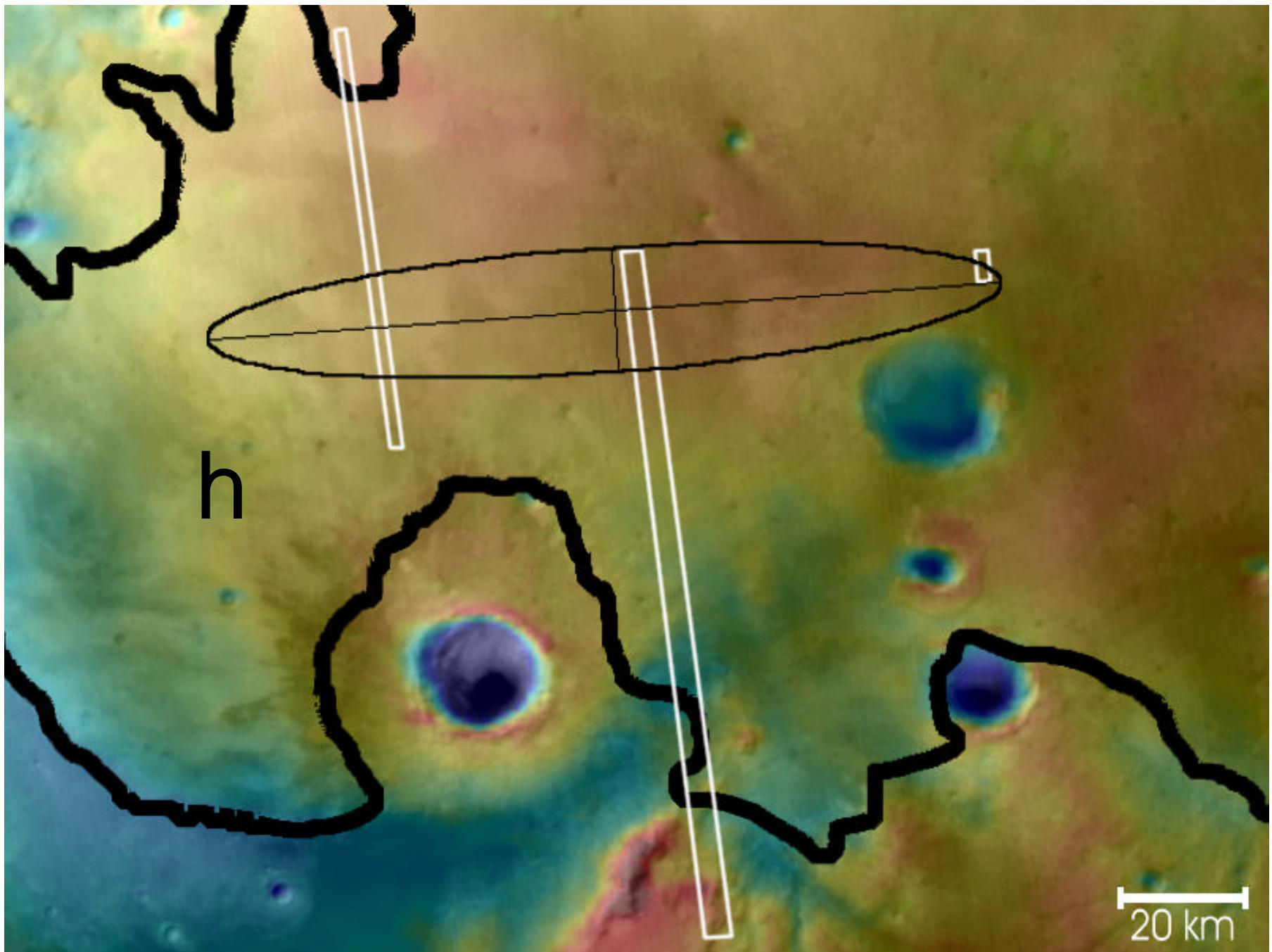
MOC NA 0705082



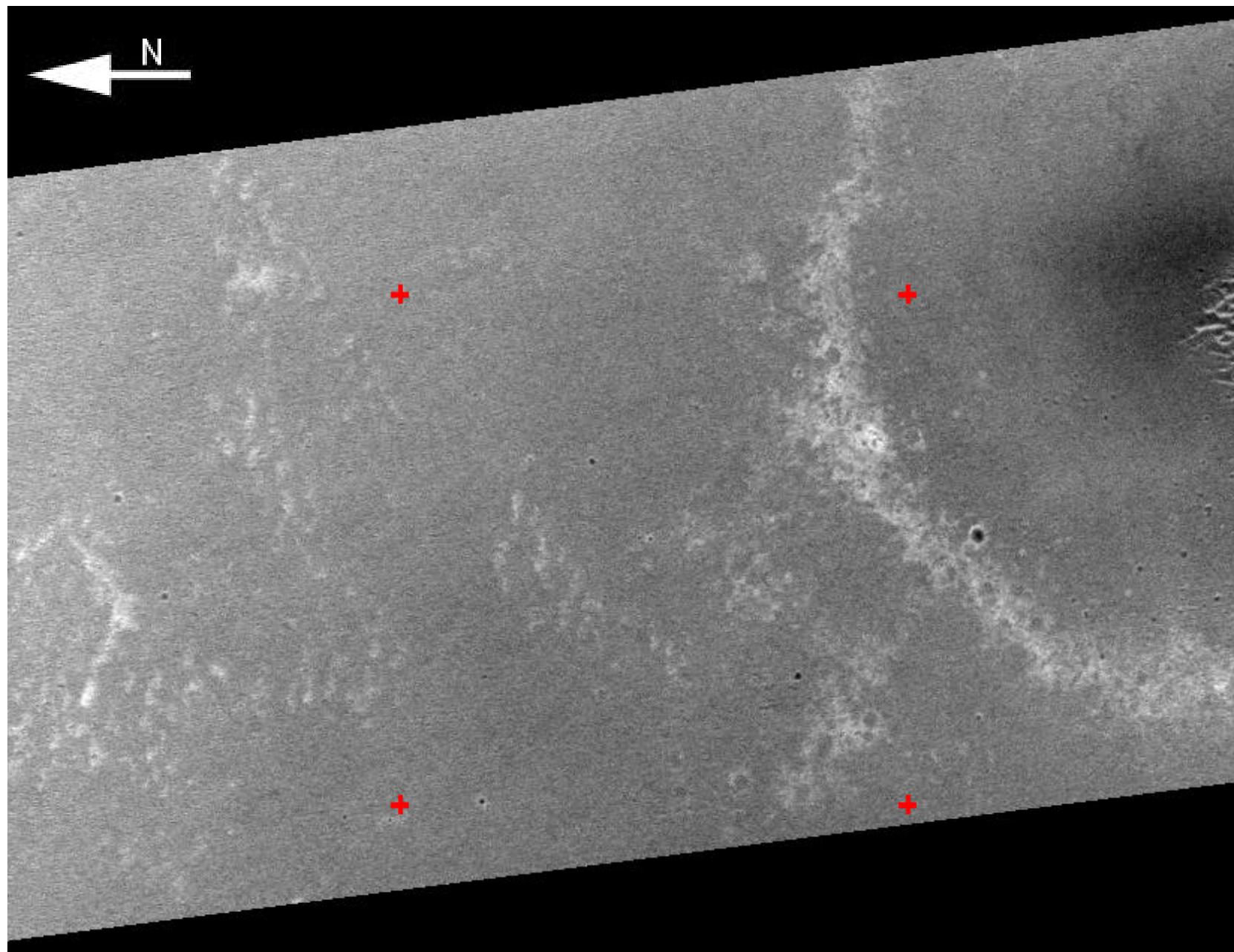
MOC NA 0800876



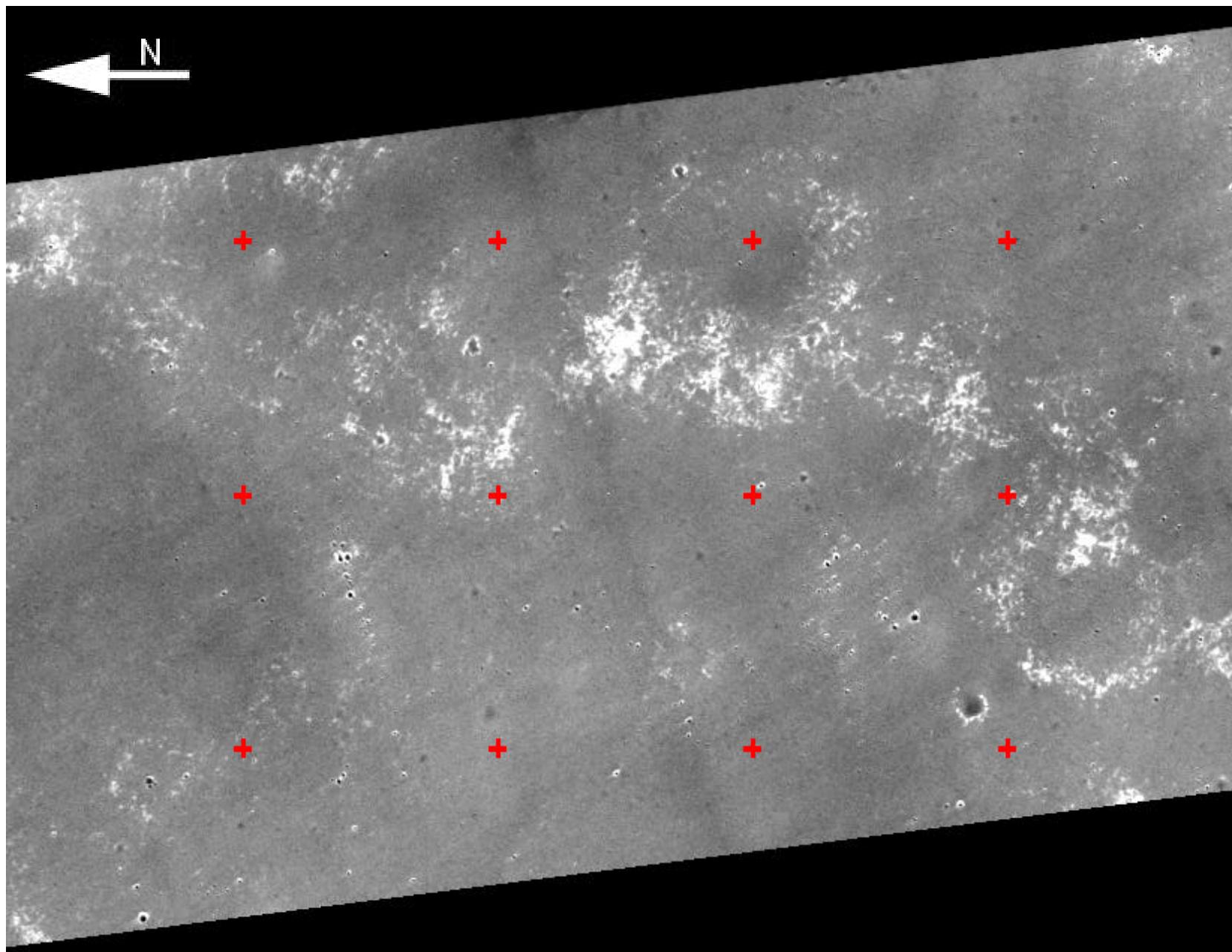
MOC WA hematite with MER ellipse



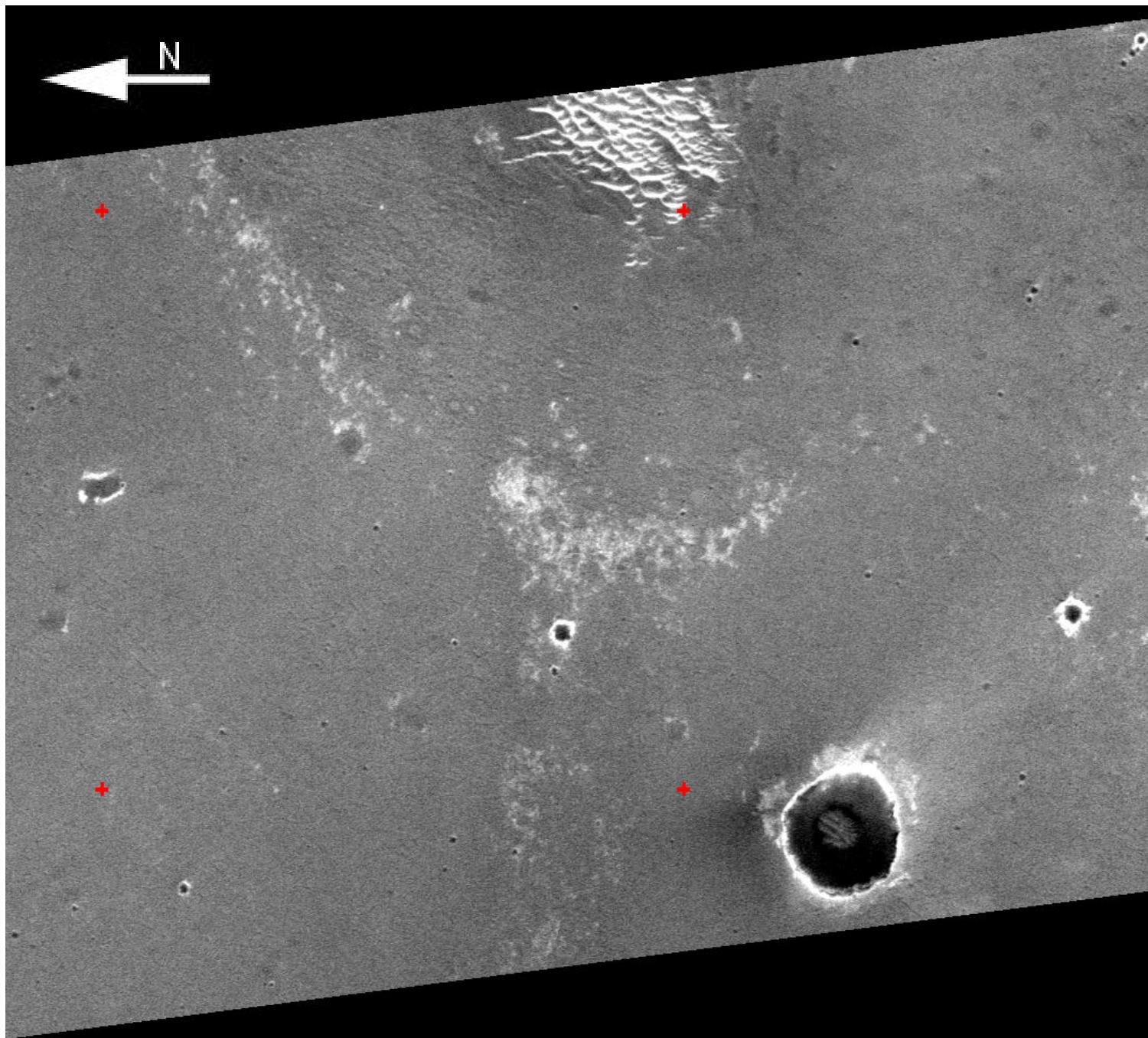
MOC NA M0808066



MOC NA M0301632



MOC NA M0802647



Geologic History

- Dissection of Cratered Terrain
- Deposition of Etched and Hematite layered deposits as volcaniclastic complex (composition?)
- Aqueous and/or hydrothermal alteration of etched and hematite units?
- Mantling by aeolian deposits, with formation of duricrust
- Exhumation by wind leading to hematite and etched unit exposures within landing error ellipse