



JAGIELLONIAN UNIVERSITY
IN KRAKÓW

Second National Mars Science Seminar

Mapping the Northern Lowlands of Mars

Dr Anna Łosiak

University of Exeter, Institute of Geological Sciences PAS

[PRESENTATION]

A project of mapping ice-related landforms was undertaken to understand the role of subsurface ice in the northern plains. This work is the first continuous regional mapping from CTX. The degradational features into the LDM (Latitude Dependent Mantle) include pits, scallops and 100 m polygons and provide supporting evidence for sub-surface ice and volatile loss between 35-70° N with the mantle between 70-78° N appearing much more intact. Results were published in a series of papers in JGR:Planets: Ramsdale et al. 2018, Séjourné et. al. 2019, Orgel et al. 2019, Ramsdale et al. 2019.