

# **One Martian year monitoring of H<sub>2</sub>O ice clouds by OMEGA/MEx**

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The OMEGA imaging spectrometer on board the ESA/Mars Express mission has identified and mapped H<sub>2</sub>O ice clouds during one Martian year over a wide range of latitudes and longitudes. H<sub>2</sub>O ice is detected through its diagnostic absorption at 1.5  $\mu\text{m}$ , coupled to absorption at 1.25  $\mu\text{m}$  when in the form of surface frost, which enables to discriminate between these two states. Possible contribution of CO<sub>2</sub> frost is also detected through a specific CO<sub>2</sub> ice absorption at 1.35  $\mu\text{m}$ . We will present the results and compare them to mappings from TES/MGS, and with the current models (LMD/CGM).