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Search for thermal anomalies on Mars with MEX/OMEGA

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We report on preliminary results of thermal modelling of selected regions on Mars. In particular, we have started with the volcanoes in the region of Tharsis on Mars. We use a thermal model which includes the effect of slopes to predict the temperature of a given surface. The synthetic temperature maps are then compared to the surficial temperature retrieved by the MEX/OMEGA mapping spectrometer by using the measured radiance at 5 im. The purpose of this work is to search for areas that show an anomalous thermal behaviour. At present, we are validating our methodology (compared to far infrared TES/THEMIS, daylight versus nightlight measurement) and some case studies will be presented.