

# ESA's Mars Orbiters: contributions to Mars atmosphere & climate science

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The European Space Agency's Mars Orbiters – Mars Express (MEX) and the ExoMars Trace Gas Orbiter (TGO) – provide a wealth of information about Mars and its atmosphere processes today and in the past.

In this presentation I will brief review some selected recent results relevant to understanding the Martian atmosphere today and in the past.

Plans for MEX & TGO investigations in coming years are then summarised.

Finally, I will address what opportunities for atmospheric science may be forthcoming with the next generation of ESA Mars orbiters, in particular with the LightShip-1 mission currently in development.