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ESA/Mars Express major achievements

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Designed for one Martian year in orbit, the ESA/Mars Express mission is still operating, after more than 10 years around Mars. It has been pioneer in measuring properties, in a coupled manner, of the distinct Mars envelopes (exosphere, atmosphere, surface and sub-surface), with major outcomes enabling a profound revisiting of Mars History, at all timescales: from seasonal variations to long term geological and climatic changes. We shall present its major achievements, which have very significantly contributed to characterizing the processes that paved the diversity of planet evolutionary pathway.