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Possible enhancement of the ESA Ozone and Methane Climate Change Initiative data records by the planned Sentinel-5 Precursor satellite measurements.

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Since about six years the European Space Agency (ESA) has been implementing in close co-operation with its member states the so-called Climate Change Initiative (CCI). CCI is a dedicated programme to exploit mainly ESA satellite mission measurements in order to derive Essential Climate Variables as defined by GCOS. Two projects – namely the Ozone_cci and the GHG_cci project – have been generating time-series of Ozone and GreenHouseGas ECVs. These climate data set records will be extended by the measurements of the upcoming (the launch is currently planned during June 2017) Sentinel-5 Precursor satellite. The potentials (e.g. based on better time and space resolution) to enhance and extend the existing ozone and methane CCI data records by the usage of Sentinel-5 Precursor data are presented herewith.