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**Retrieval of global water vapour from
Sentinel-5P
with the AMC-DOAS method**

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Abstract

The Air Mass Corrected Differential Optical Absorption Spectroscopy (AMC-DOAS) method is a powerful tool to derive total column water vapour (TCWV) from spectral measurements of spaceborne instruments near 700 nm.

In this talk the adaption and application of the AMC-DOAS method to the TROPOspheric Monitoring Instrument (TROPOMI) onboard Sentinel5-Precursor (S5P) is explained. The adaption includes several changes to the algorithm, especially the update of the radiative transfer database and an additional postprocessing. The quality of this product is assessed by comparing the AMC-DOAS S5P TCWV with other independent data sets including two other S5P TCWV products.