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**New results of Sentinel-5 Precursor water
vapour retrievals using AMC DOAS**

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Abstract

New results from the retrieval of total water vapour columns from Sentinel-5 Precursor (S5P) measurements using the Air Mass Corrected Differential Optical Absorption Spectroscopy (AMC DOAS) approach are presented. Several changes of the method have been implemented to improve the quality of the product, especially updated radiative transfer databases and a dedicated postprocessing considering effects of surface albedo and remnant clouds.

In this presentation we describe the updated algorithm and show first results from comparisons between the new S5P AMC DOAS total water vapour columns and independent datasets.