



## **A new retrieval of total water vapour content from MERIS measurements**

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This work presents a new algorithm for the retrieval of integrated water vapour over land areas from data acquired by the Medium Resolution Imaging Spectrometer (MERIS). The proposed algorithm is based on inverse modelling of radiative transfer simulations by using an artificial neural network. The new algorithm includes measurements in the oxygen A band in order to correct for the extension of photon paths due to scattering at aerosols. We present the improvements of the new algorithm by a comparison with the former version of the algorithm.