

Name Jacob van Peet

Position Scientist/PhD student

Title M.Sc.

Gender Male

Jacob van Peet received his Masters diploma in Physical Geography at Utrecht University, The Netherlands, in 2002. He continued with Physics and Astrophysics at the same university for which he received his masters diploma in 2006. He has been working at the Royal Netherlands Meteorological Institute since the beginning of 2008. His main research topics are the retrieval of ozone profiles and assimilation of those profiles into a chemical transport model. Ozone profiles are retrieved from nadir looking UV-VIS instruments (such as GOME, SCIAMACHY, GOME-2 and OMI), using an optimal estimation algorithm. The ozone profiles are assimilated into the chemical transport model TM5 using a sequential Kalman filtering technique. The vertical sensitivity of the UV-VIS instruments is taken into account by incorporating the averaging kernel in the data assimilation algorithm. The assimilation results can be used for generating longterm 3D ozone time series and tropospheric ozone columns.