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Room:102

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Middle atmospheric winds observation from JEM/SMILES

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Middle atmospheric winds have been retrieved from the JEM/SMILES measurements. The winds, observed in the line of sight direction, are retrieved from the frequency shift of the intense and spectrally resolved atmospheric lines from O₃ and HCl. Currently, data are available between 35 to 80 km but theoretical estimations indicate a sensitivity down to 20 km.

We will introduce the retrieval strategy and show comparisons of the measurements with data from meteorological analysis. Improvements of the retrieval algorithms will be discussed.

Keywords: SMILES, Stratosphere, Wind, Remote sensing