



Coherent structures of low ozone observed by OMI and SCIAMACHY

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The high spatial resolution observations of OMI and SCIAMACHY of the ozone column amount distribution provide detailed information of structures in the ozone. In the subtropics coherent bands of low ozone were observed during a couple of days in August 2004 in the southern hemisphere. These structures migrated eastward around the globe. On the basis of these observations and an analysis of the dynamical meteorological fields such as potential vorticity, an interpretation in terms of propagating planetary waves is put forward. Consequences of the planetary waves on the distribution of ozone in the tropics and subtropics will be discussed.