



Sounding water vapor, ozone and particle (SWOP) campaign at Lhasa and Kunming during the ASM

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Asian summer monsoon (ASM) anticyclone circulation is recognized to be a significant transport pathway for water vapor and pollutants to enter the stratosphere. Observational evidences, however, are largely based on satellite retrievals. During the last few summers, we have conducted balloon-borne water vapor, ozone, and particle measurements at Kunming and Lhasa during the ASM. We present the key characteristics of these measurements in the upper troposphere and lower stratosphere. These measurements are key to study the transport and microphysics in the ASM anticyclone.