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Characterization of Dual Channel Reactor System (DUALER) for Airborne Measurements during AMMA.

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The peroxy radicals play a key role in the cleaning process of the atmospheric pollution. The research of peroxy radical chemistry is an important topic that provides essential knowledge about photo oxidant formation and night time chemistry.

At the Institute of Environment Physics (IUP) of the University Bremen, laboratory studies are performed to characterize and design the instrumentation for the measurement of peroxy radicals at different platforms. The IUP DUALER system, based on the PERCA (Peroxy Radical Chemical Amplification) technique that was deployed on the D-Falcon 20 of German Aerospace Center (DLR) during the measurement campaign AMMA SOP2 has been further characterized.

In this poster the implementation of a pressure chamber for improving the characterization procedure of the IUP DUALER for different pressure levels is going to be presented and the results will be compared with the performance of the instrumentation during AMMA.