Preliminary retrieved results from the quality controlled data-base collected by the ADMIRARI radiometer during CHUVA campaign 2010 in Alcantara. The retrieval data files have the following name: M03Dxx ADMI lev02.RET with xx the day. The first two rows in the files are legends indicating the content. The file data content comprise of 11 columns: - column 1: UTC hour (e.g. 14.5 means 14:30 UTC of the corresponding day) - column 2: Quality index (QI<6 indicates a very good retrieval, QI<36 reliable retrievals, otherwise unreliable). - column 3: The average Freezing Level for the retrievals, unit [km]. - column 4: Integrated Water Vapor for the observation angle, unit [kg/m^2]. - column 5: RMSE for the Integrated Water Vapor, unit [kg/m^2]. - column 6: Cloud Liquid Water Path for the observation angle, unit [kg/m^2]. - column 7: RMSE for the Cloud Liquid Water Path, unit [kg/m^2]. - column 8: Rain Liquid Water Path for the observation angle, unit [kg/m^2]. - column 9: RMSE for the Rain Liquid Water Path, unit [kg/m^2]. - column10: Elevation angle of the corresponding retrievals, unit [degree]. - column11: Azimuth angle of the corresponding retrievals, unit [degree]. NOTE 1: Un-retrieved values are indicated by NaN. NOTE 2: Reference for the utilized retrieval method: Battaglia, A., P. Saavedra, T. Rose, and C. Simmer: "Characterization of precipitating clouds by ground-based measurements with the triple-frequency polarized microwave radiometer ADMIRARI", J. Appl. Meteorol., {49} (3), pp. 394-414, 2010. Saavedra, P., A. Battaglia, C. Simmer: "Partitioning of cloud and rain water content by ground-based observations with the radiometer ADMIRARI in synergy with a micro rain radar", J. Geophys. Res., submitted, 2011. NOTE 3: Why there are un-retrieved values? Not because the measurements were wrong, but because the a-priori data base does not represent properly the measurements and/or Non-uniform beam filling and 3D effects are not considered by the retrieval method. For an extend and detailed explanation see the following reference: Battaglia, A., P. Saavedra, C.A. Morales, and C. Simmer: "Understanding three-dimensional effects in polarized observations with the ground-based ADMIRARI radiometer during the CHUVA campaign", J. Geophys. Res., doi:10.1029/2010JD015335, 2011.

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