Status of atmospheric databases

Offline Database Monitor

This page shows the date and time of the last update of the Offline Master and Mirror databases.

Database.*Table*	**BUW Master** `db-master.auger.uni-wuppertal.de`	**BUW Mirror** `db.auger.uni-wuppertal.de`
AERA_3_A.*RHardWareAssociation*	2015-04-16 17:25:58	2015-04-16 17:25:58
AERA_4_A.*RHardWareAssociation*	2019-01-11 16:29:39	2019-01-11 16:29:39
Atm_Aerosol_1_A.*aerosol*	2017-02-02 14:52:53	2017-02-02 14:52:53
Atm_Molecular_1_A.*molecular*	2019-02-27 03:04:04	2019-02-27 03:04:04
Atm_Quality_0_A.*overall_quality*	2017-04-11 10:36:06	2017-04-11 10:36:06
Atm_Cloud_1_A.*cloud_pixel*	2018-08-31 14:56:59	2018-08-31 14:56:59
Atm_Lidar_1_A.*lidar*	2014-06-05 03:16:08	2014-06-05 03:16:08
Atm_GOES_0_A.*cloud_pixel*	2018-10-11 23:34:29	2018-10-11 23:34:29
FD_Calib_0_A.*working_calib*	2014-02-03 17:22:38	2014-02-03 17:22:38
FD_Calib_1_A.*working_calib*	2015-12-18 19:00:00	2015-12-18 19:00:00

Status of atmospheric databases

Ready for ICRC 2019 Hybrid Data Set

Molecular database — **Updated till Feb 2019**
Running smoothly

Clouds monitoring :

GOES database — **Updated till Dec 2017 →**
work on GOES-16 data in progress to add new data
(A. Puyleart from MTU will report at the Malargue meeting)

CLOUD database — **Updated till April 22nd 2018 → Adelaide group**
Interesting work by M. Niechciol for a possible use of other CCs than the triggered station when not available presented in Nov.

LIDAR database — **Updated till March 9th 2014 →** ***NO NEW DATA FOR ICRC DATASET***
Good progresses in data analysis (J. Pallotta will report at the Malargue meeting)

For cloud rejection an approach using all information from different instruments is used in data analysis → Unified approach since ICRC 2017

Aerosol Database

Apr 14th , 2017 → final release for ICRC 2017 :

- DB name : Atm_Aerosol_1_A
- Software version : CSM_NAP_v2.0
- Years : Jan 2004 – Dec 2015
- Changes wrt previous release : Aerosol and Multiple Scattering accounted for in DN analysis, starting from 2005.

soon → final release for ICRC 2019 :

- DB name : Atm_Aerosol_1_A
- Software version : ADE_NAP_v1.0
- Years : Jan 2004 – Dec 2017
- Changes wrt previous release : use of the new Data Normalized Offline-based code. Different extrapolation of VAOD at ground (first km).

Status of atmospheric databases

In progress for ICRC 2019 Hybrid Data Set

Aerosol database

FD_Calib_1_A

all telescopes up to December 2015

+ for the Aerosol Profiles measurements, we used Gaetano's FD calibrations for the period 01/2016 – 03/2018 (not yet officially released, but stable for CLF/XLF studies)

Atm_Aerosol_1_A ⟶ **Data Normalized Analysis Offline based code 2004-2017 dataset**

Violet M. Harvey (Adelaide) new Offline-based "DNatmos" code, improved wrt the old CLFatmos. "**Violet_v3"** circulated for tests since mid-September → good agreement with the ICRC2017 data on 2004-2015 data, but the ΔXmax distribution (Violet_v3 - ICRC2017) has some tail, mostly due to a different definition of the minimum cloud base height which has been corrected. In addition, a cut on the minimum cloud base height is under discussion.

The Violet_v4 db files are ready (today) → test in the next days.

Atm_Quality_0_A ⟶ **Ready with the Violet_v3 dataset, is going to be updated with the Violet_v4 dataset**