

CINDI-2 and FRM₄DOAS: Perspectives for NDACC

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Current status of MAX-DOAS in NDACC

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- Few sites (BIRA, IUP, INTA, ...) delivering MAXDOAS data on the rapid-delivery (RD) repository. Activity initiated in EU NORS project and continued within CAMS and satellite cal/val projects.
- No endorsement/certification procedure formalised for MAX-DOAS measurements in NDACC
- No MAX-DOAS site formally endorsed on NDACC
- No MAX-DOAS data delivered on the consolidated (station) repository

Plans for MAXDOAS integration in NDACC

- **MAXDOAS integration in NDACC – how and when?**
 - Part of FRM4DOAS workplan for 2019 (CCN under negotiation)
 - NDACC MAXDOAS Service Kick-off: Nov-Dec 2019

- **What are the main steps?**
 - NDACC endorsement procedure → define rules and procedures for MAXDOAS instrument setup, data acquisition and data retrieval (both slant columns and column/profiles)
 - Scope: NO₂ + HCHO + aerosol profiles (based on FRM₄DOAS algorithms)
 - NDACC acceptance of MAXDOAS groups → following NDACC protocol, i.e. application letter to UVVIS co-chairs, formal endorsement by NDACC co-chairs (upon recommendation by UVVIS co-chairs)

Role of Central Processing Facility

- FRM4DOAS Central Processing Facility (CPF) → non-mandatory service for processing of NDACC MAXDOAS data
- NDACC participants are free to run their own processor, but the NDACC data processing and quality standards must be satisfied (i.e. guidelines for slant and vertical column/profile retrievals)
- CPF adheres to NDACC standards by construction
- CPF designed to provide quality-controlled data flow in support of ESA cal/val projects (and directly feeds EVDC and MPC VDAF data bases)
- NDACC-compliant data sets produced through CPF or through own NDACC-compliant processor are equivalent with respect to inclusion in cal/val (or other) user data base