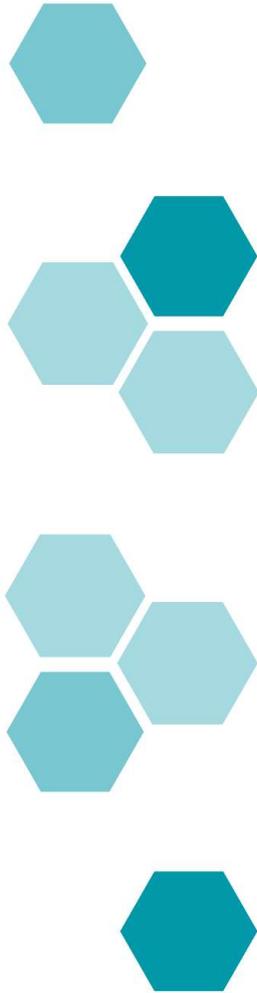
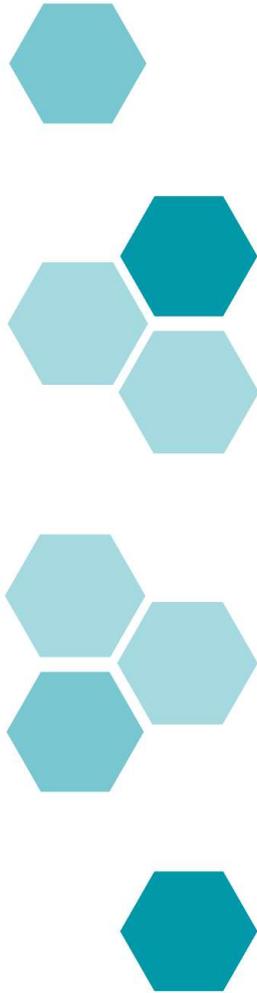


News from ACMCC

- Last ACSM intercomparison workshops
- Standard operating procedures
- Annual data submission



Last ACSM intercomparison campaigns



In Autumn **2022**:

→ 2 sessions: Quad-ACSM = 12-30 Sept. 2022
ToF-ACSMs = 17 Oct. - 4 Nov. 2022

- 1 week measurements after installation (warm-up), 2 last days (week-end) used for pre-intercomp.
- Tunings and calibrations (about 1 week long), along with technical meetings.
- 1 week intercomparison in ambient air + workshop meetings

Last ACSM intercomparison campaigns

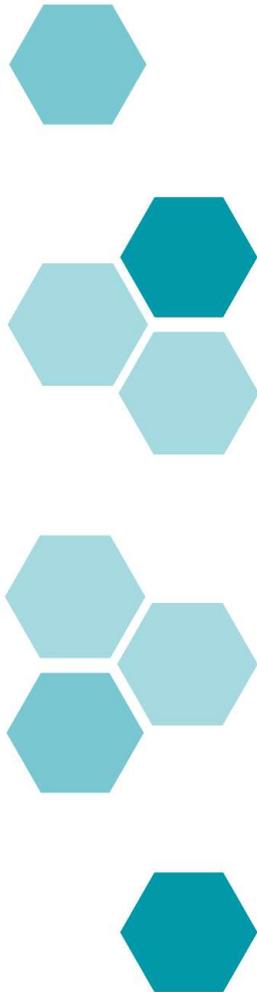
Participating instruments

Quad-ACSM:

- IDAEA-CSIC
- CNR-ISAC
- INOE
- NOA
- Tropos
- FMI
- NILU
- CIEMAT
- U. Hel.

ToF-ACSM:

- IDAEA-CSIC
- CNR-ISAC(X 2)
- PSI (x 2)
- U. East. Finland
- ICPF
- DEM
- U. Frankfurt
- LaMP
- U. Lund



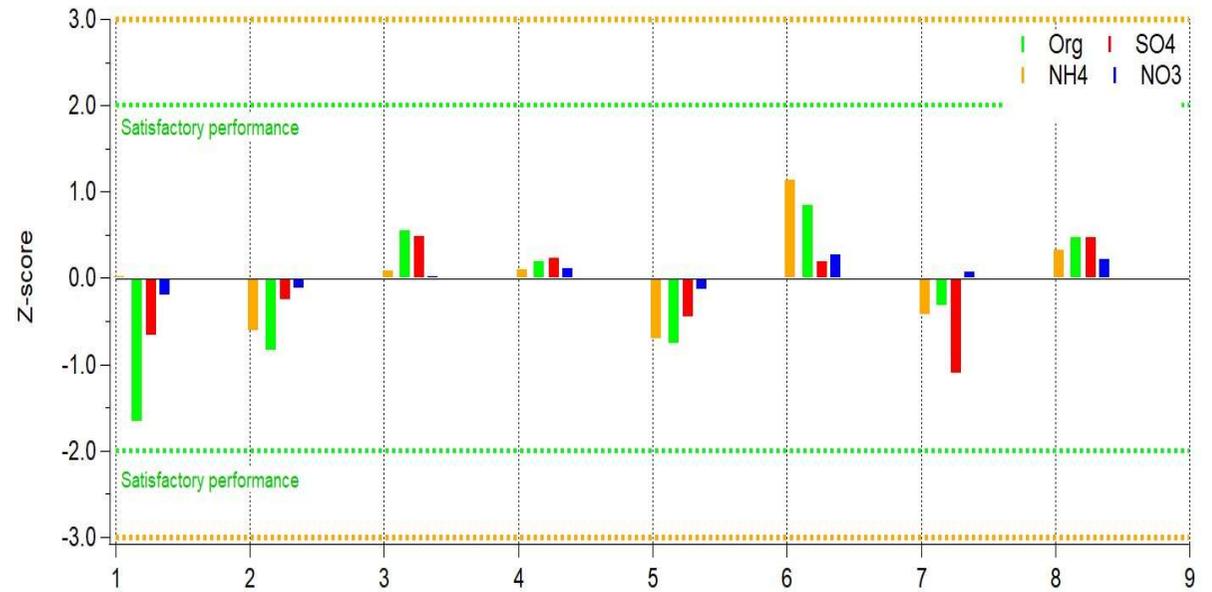
Last ACSM intercomparison campaigns

Results from intercomparison campaigns (after tunings and calibrations)

Quad-ACSM:



ToF-ACSM:



Standard Operating Procedures

➤ Revised SOP versions in preparation.

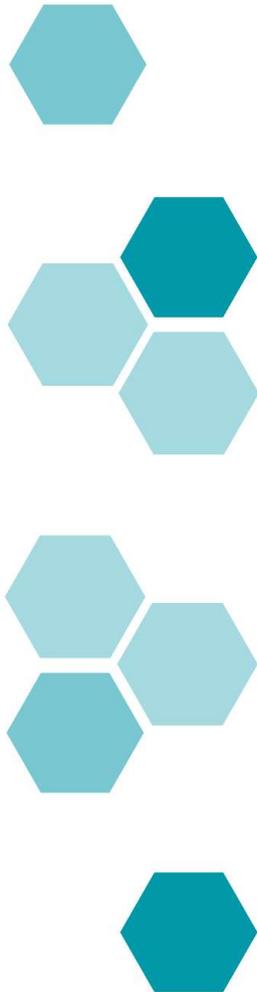
Everyone can propose updates online until March 1st @ :

For Quad-ACSM:

<https://docs.google.com/document/d/18hqWHJ4eWJxDcvX92GnwhTGu9gSN6wKb/edit?usp=sharing&oid=103814627935934208405&rtpof=true&sd=true>

For ToF-ACSM:

https://docs.google.com/document/d/16YwrEmJ6EumEMeaDlpgIRAPKOcU9EE1HRWI7FaR_NrI/edit?usp=sharing



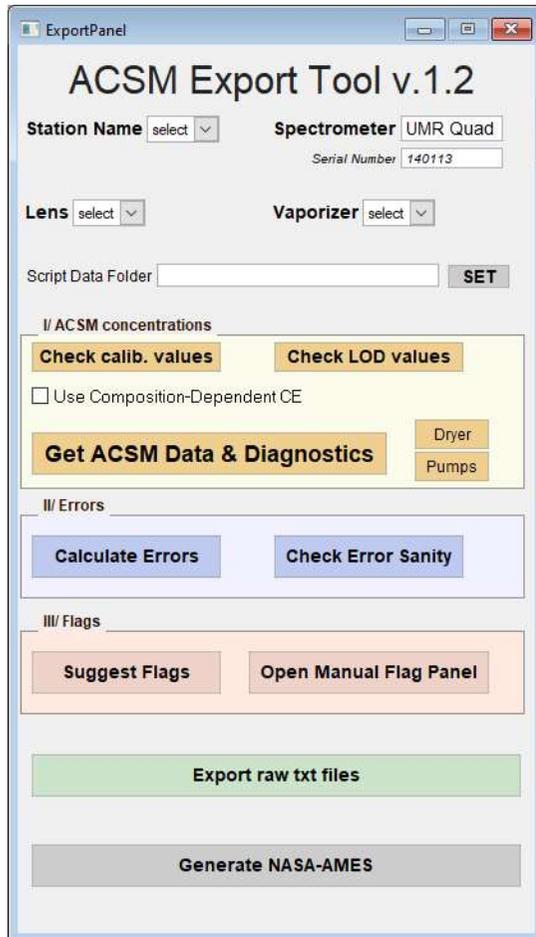
Annual data reporting

Next ACSM Submission Workshop

22-23 March 2023

Paris, France

Quad-ACSM

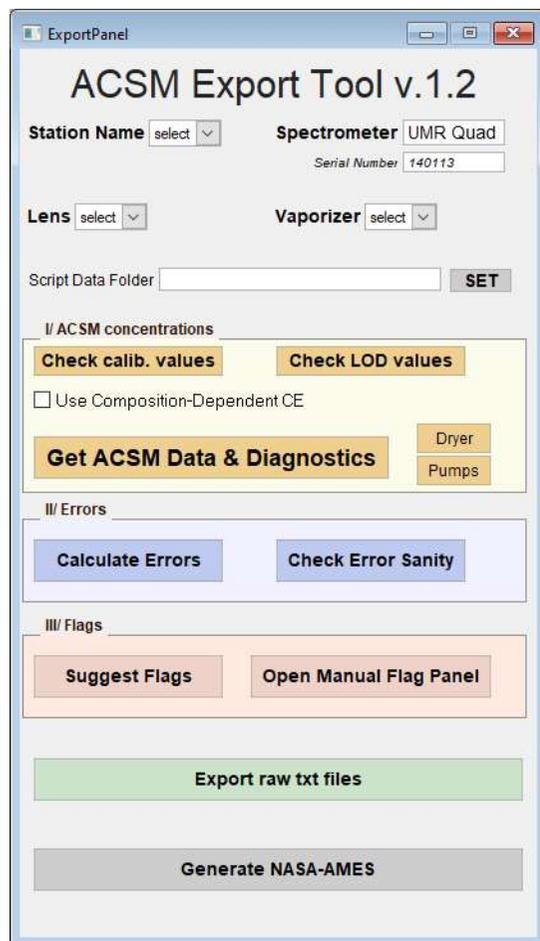


- Bug fixes from last workshop
- Plenty of new features (suggested from users)

To be done until workshop :

- Upcoming meeting with NILU to avoid errors on EBAS ST
- Update manual

Quad-ACSM



The screenshot shows the 'ExportPanel' window for 'ACSM Export Tool v.1.2'. It features several input fields and buttons:

- Station Name:** A dropdown menu with 'select' and a downward arrow.
- Spectrometer:** A text field containing 'UMR Quad' and a sub-field for 'Serial Number' with '140113'.
- Lens:** A dropdown menu with 'select' and a downward arrow.
- Vaporizer:** A dropdown menu with 'select' and a downward arrow.
- Script Data Folder:** A text input field followed by a 'SET' button.
- ACSM concentrations section:** Includes buttons for 'Check calib. values', 'Check LOD values', and 'Get ACSM Data & Diagnostics'. There is also a checkbox for 'Use Composition-Dependent CE' and buttons for 'Dryer' and 'Pumps'.
- Errors section:** Includes buttons for 'Calculate Errors' and 'Check Error Sanity'.
- Flags section:** Includes buttons for 'Suggest Flags' and 'Open Manual Flag Panel'.
- Export raw txt files:** A large green button.
- Generate NASA-AMES:** A large grey button.



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Need of 1-2 volunteers for beta-testing

Email us !

ToF-ACSM

ExportPanel

ACSM Export Tool v.1.0

Station Name Spectrometer

Serial Number

Lens Vaporizer

Script Data Folder SET

I/ ACSM concentrations

Load Native Files

Check LOD values Use Composition-Dependent CE

II/ Errors

III/ Flags

Suggest Flags Open Manual Flag Panel

Export raw txt files

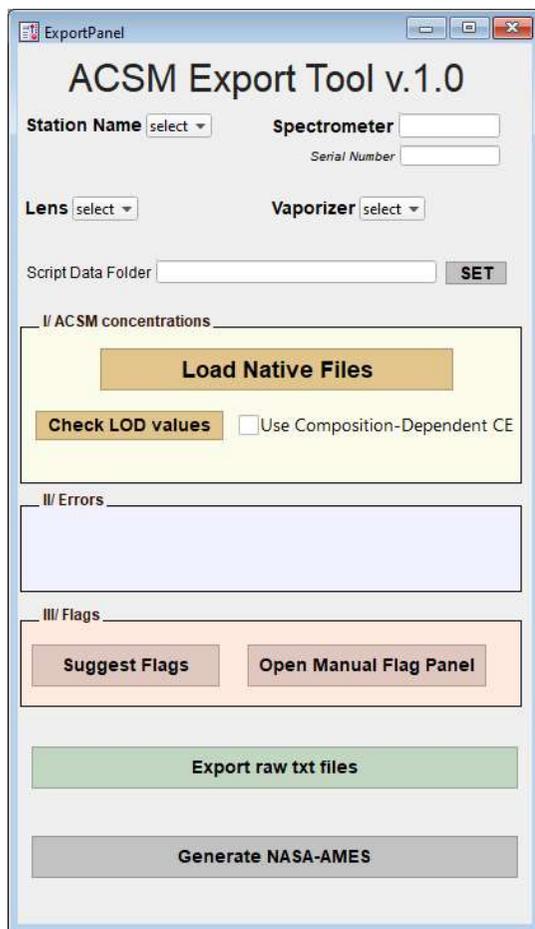
Generate NASA-AMES

- Brand new (simplified) procedure (under development)
- User-friendly manipulation of native files
- Automatic QA/QC & user-friendly flagging system

To be done until workshop :

- Define L0 & L1 template
- Auto. QA/QC
- Update codes & manual

ToF-ACSM



The screenshot shows the 'ExportPanel' window for 'ACSM Export Tool v.1.0'. It features several input fields and buttons:

- Station Name**: A dropdown menu.
- Spectrometer**: A text input field with a 'Serial Number' label below it.
- Lens**: A dropdown menu.
- Vaporizer**: A dropdown menu.
- Script Data Folder**: A text input field with a 'SET' button.
- ACSM concentrations**: A section containing a 'Load Native Files' button, a 'Check LOD values' button, and a checkbox for 'Use Composition-Dependent CE'.
- Errors**: A light blue rectangular area for displaying error messages.
- Flags**: A section containing 'Suggest Flags' and 'Open Manual Flag Panel' buttons.
- Export raw txt files**: A green button.
- Generate NASA-AMES**: A grey button.



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Workshop

- March 22 : Q-ACSM
objective : generate & submit L0, L1, L2 data
- March 23 : ToF-ACSM
objective : generate & submit at least L2 data

- Individual support until May 31st, but participation to the workshop is required !!!

- Application on ecac-actris.eu