

Technical workshop on data quality and data reporting to EBAS

October 26 - 28th 2016

At NILU at Kjeller, Norway

The workshop is covering two connected topics related to data submission to EBAS, one more on the technical work in creating NASA Ames files for data submission and includes hands on training, the other on the assessment of quality of some specific EMEP data and how to best document this information. The topics will be discussed in parallel sessions.

The data reporting session will introduce the procedures for data and meta data reporting to EBAS and is not restricted to any specific component. All data valid for submitting to EBAS is included and is thus relevant for EMEP, GAW (WDCA WDCRG), ACTRIS, HELCOM, OSPARCOM and AMAP site operators. The course aims to give data reporters and introduction to the data submitting procedures and NASA Ames 1001 EBAS data format used in the EBAS database.

Also experienced data providers are welcomed since new features and metadata has been introduced to the templates and there is a possibility to learn how to do scripting from your own databases to automatically create NASA Ames files.

The data quality session is focused on various topics which have either had little attention the last years in EMEP (Inorganic ions, heavy metals and POPs) and components for which there has been large changes in assessment of quality and metadata information, i.e. ozone and EC/OC. We will review the current understand of the quality of these measurements and discuss if improves in data quality objects is needed and define new if possible. Further, there is a need to identify missing metadata information on measurement methodology in the current templates and define QA measures specific for these measurements.

Data quality aspects of established data flows will be covered as well as part of the hands-on sessions

Agenda

Day 1: Wednesday 26 October	
13.00-14.00	Registration. Arrive latest at 13.45 in the reception
14.00- 15-30	Common session with introduction and background in 2A
	<ul style="list-style-type: none">• Welcome Wenche Aas• Background and status on EBAS and Data Quality Kjetil Tørseth• Introduce the QA measure concept Markus Fiebig• Overview of the EBAS data format, flags and new features Paul Eckhardt• EBAS submission tool and format checker Richard Ruud
15.30	Coffee break with fruits

15.45- 17.00 Breakout sessions	
In room 2A	In room 2B
<p>15.45-16.15: Detailed description on the NASA Ames format and recent changes and updates (Ann Mari Fjæraa)</p> <p>16.15- 17.00 Hands on training. (Paul, Ann Mari, Anne, Rita, Richard) The participants should bring their own data and laptop</p> <p>Create files and look at time series and discuss which appropriate flags to be used</p>	<p>Focus on data quality of inorganic compounds in air and precipitation (Wenche, Erik, Hilde, Anne)</p> <ul style="list-style-type: none"> • Discuss and present results from intercomparison etc to review the quality of EMEP data and quality objectives • Review the present metadata and QA measures
Day 2: Thursday 27 October	
09.00 - 09.20 Common session in 2A to sum up yesterday work and share recommendations from the breakout sessions	
09.20 - 10.30 Breakout sessions	
In room 2A	In room 2B
<p>Continue hands-on training. (Paul, Ann Mari, Anne, Rita, Richard)</p> <p>For those interested there will be possibilities to get help and introduction in automatic file generation using scripting</p>	<p>Focus on data quality of PM mass and EC/OC (Karl Espen, Markus, Wenche)</p> <ul style="list-style-type: none"> • Discuss and present results from intercomparison etc to review the quality of EMEP data and quality objectives • Review the present metadata and QA measures
10.30 – 10.45 Coffee break	
10.45 - 12.00 Breakout sessions	
In room 2A	In room 2B
<p>Continue hands-on training. (Paul, Ann Mari, Rita, Richard)</p>	<p>Focus on data quality of ozone and NOx measurements (Sverre, Wenche, Markus, Anne)</p> <ul style="list-style-type: none"> • Review the quality of EMEP measurements and discuss new SOPs from WMO/GAW and ACTRIS • Review QA measures suggested
<p>12.00 – 13.00 Lunch</p> <p>13.00 – 13.20 Sum up conclusions and recommendations from previous breakout sessions</p>	

13.20 – 14.30 Breakout sessions	
In room 2A	In room 2A
Continue hands-on training. (Paul, Ann Mari, Anne, Rita, Richard)	Focus on data quality of POPs (Pernilla, Martin, Wenche) <ul style="list-style-type: none"> • Review the methods used and discuss quality of the EMEP data • Review the template and metadata necessary for these data • How to include QA measures for these measurements
14.30 –15.00 Coffee break	
15.00 – 16.30 Breakout sessions	
In room 2A	In room 2A
Continue hands-on training. Submit data and review in web interface (Paul, Ann Mari, Anne, Rita, Richard)	Focus on data quality of Mercury (Hilde, Wenche) <ul style="list-style-type: none"> • Review the template and metadata necessary for these data • Link to work done in GMOS • How to include QA measures for these measurements
16.30 – 17.00. Sum up conclusions and recommendations from previous breakout sessions 18.30: Dinner in Lillestrøm. Paid individually	
Day 3: Friday 28 October	
09.00 – 09.15. Discussion common issues and unfinished work	
09.15 – 11.30 Breakout sessions	
In room 2A	In room 2A:
Continue hands-on training. Submit data and review in web interface (Paul, Ann Mari, Anne, Rita, Richard)	Focus on data quality of Heavy Metals (Hilde, Wenche) <ul style="list-style-type: none"> • Review the methods used and discuss quality of the EMEP data • Review the template and metadata necessary for these data • How to include QA measures for these measurements
11.30 – 12.30 Lunch	
12.30 – 14.00 Summary of results and conclusions	
14.00 Adjourn	