

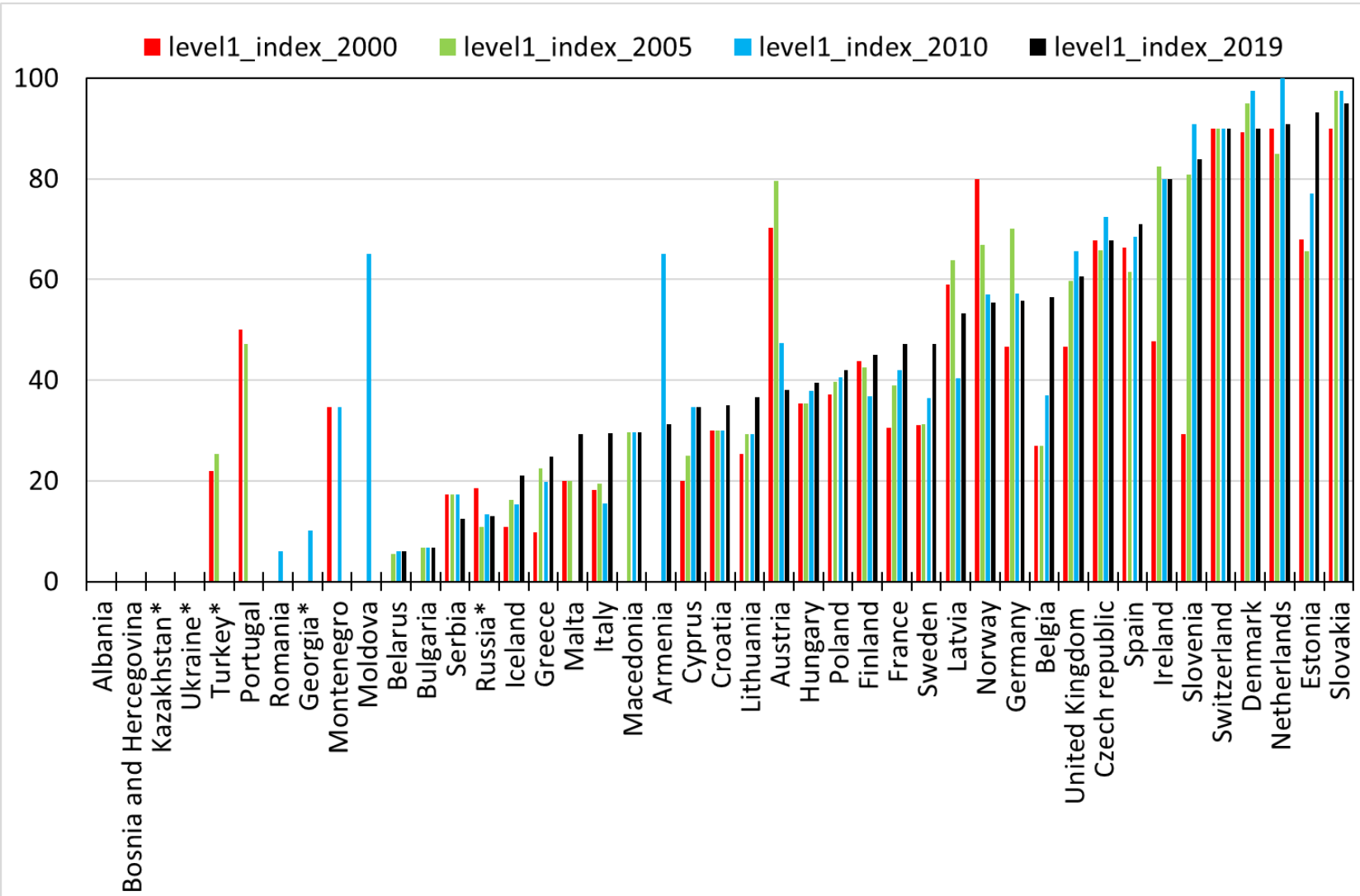
# EMEP-CCC

Steering Body meeting September 2022

## Outline

- ❖ Status
  - implementation of monitoring strategy
  - workplan 2020-2021 items
- ❖ Other ongoing activities important for the Convention
- ❖ Workplan 2022-2023

# Implementation of the monitoring strategy (level 1)



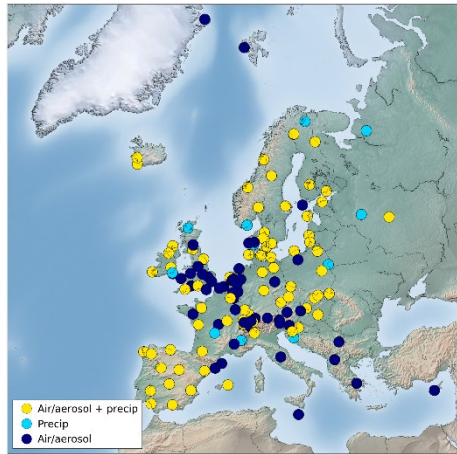
	since 2000	since 2010
Parties with <b>improved</b> monitoring	<b>63 %</b>	<b>35 %</b>
Parties with <b>reduced</b> monitoring	<b>19 %</b>	<b>37 %</b>

Thus:

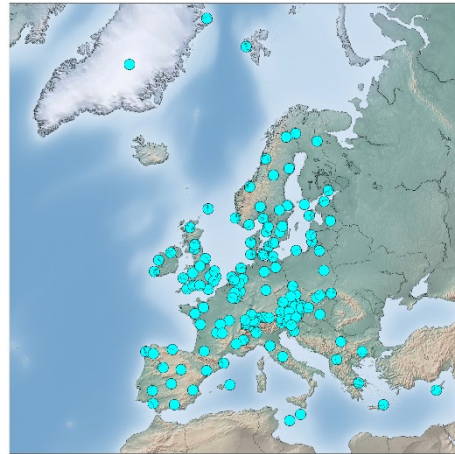
- Net improvement since 2000
- Status quo since 2010

# Measurement sites in 2019

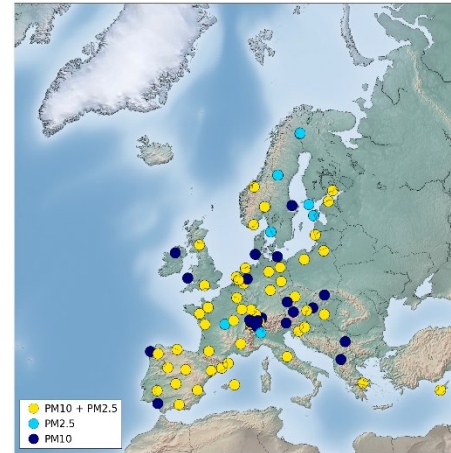
**Inorg.:** 136 sites  
from 33 Parties



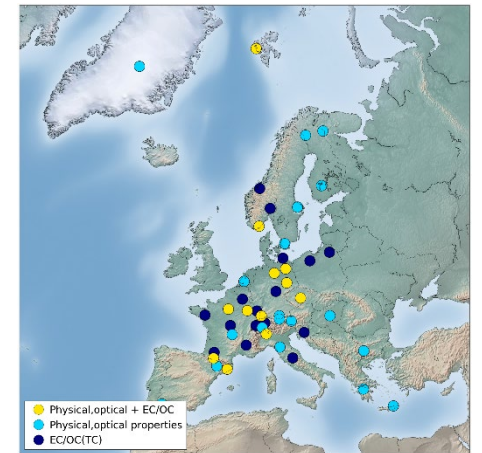
**Ozone,** 138 sites  
from 28 Parties



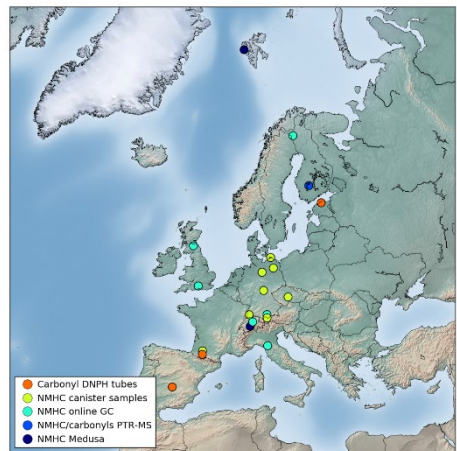
**PM:** 78 sites  
from 23 Parties



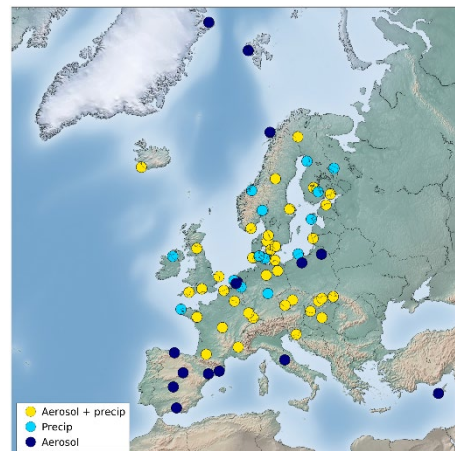
**Aerosol prop:** 50 sites  
from 17 Parties



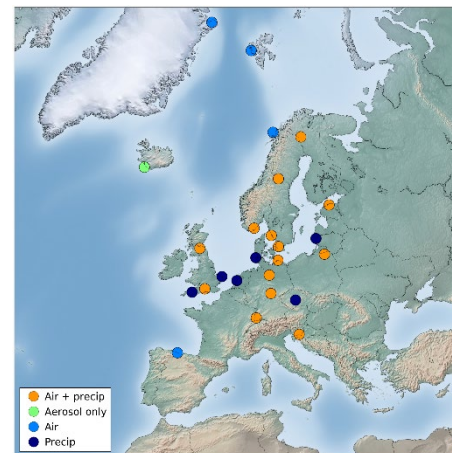
**VOC:** 19 sites  
from 10 Parties



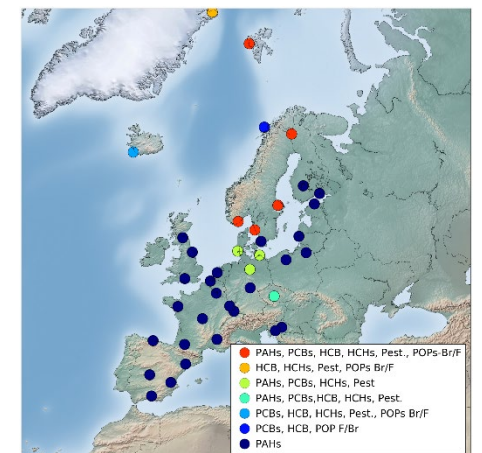
**HM:** 65 sites  
from 20 Parties



**Hg:** 25 sites  
from 13 Parties



**POPs:** 39 sites  
from 17 Parties



# All the data are presented in data reports and are openly available

## CCC reports 2021

### Data Report 2019 Particulate matter, carbonaceous and inorganic compounds

Anne-Gunn Hjellbrekke

EMEP/CCC-Report 1/2021: [pdf](#)

### Ozone measurements 2019

Anne-Gunn Hjellbrekke and Sverre Solberg

EMEP/CCC-Report 2/2021

### Heavy metals and POP measurements 2019

Wenche Aas and Pernilla Bohlin Nizzetto

EMEP/CCC-Report 3/2021

### VOC measurements 2019

Sverre Solberg, Anja Claude, Stefan Reimann and Stéphane Sauvage

EMEP/CCC-Report 4/2021

<https://projects.nilu.no//ccc/reports.html>



Available datasets: 9537  
[Reset](#) [List datasets](#)

Additional resources

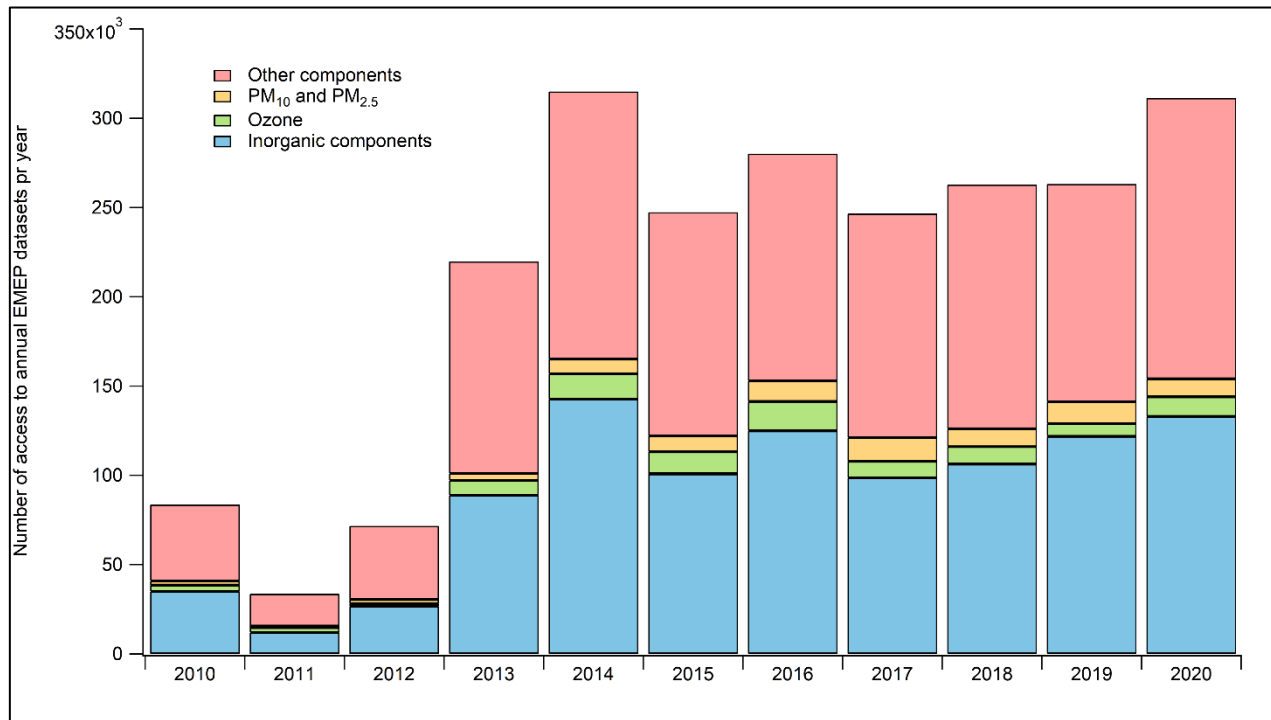
- Near-Real-Time data
- European Monitoring and Evaluation Programme (EMEP-CCC)
- Site descriptions - EMEP
- WMO Global Atmosphere Watch (GAW)
- Site descriptions - GAW
- Air mass trajectories
- Data submission
- About EBAS
- EBAS User Feedback Tracker

<http://ebas.nilu.no/>



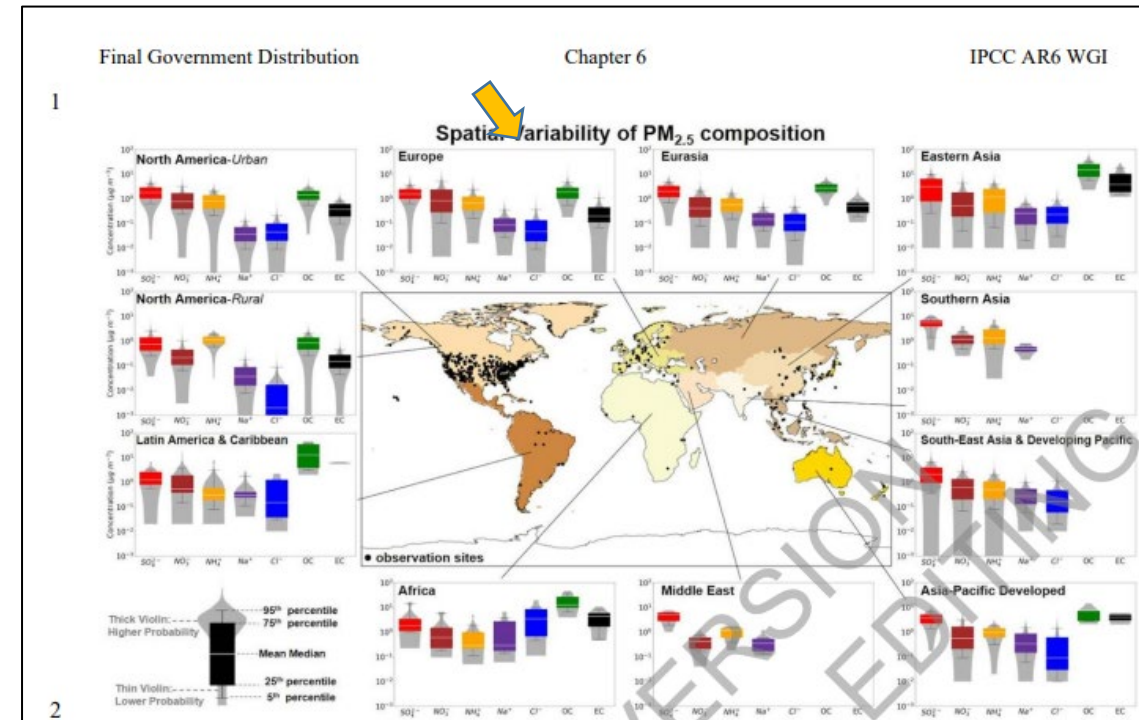
# Use of EMEP data is extensive

Number of downloads:



In various reports, i.e:

- IPCC AR6 WGI, ch6 on SLCF



# Status work plan 2020-2021

In addition to operational efforts (QAQC and data curation)

## 1.1.1.3 . Black carbon assessment:

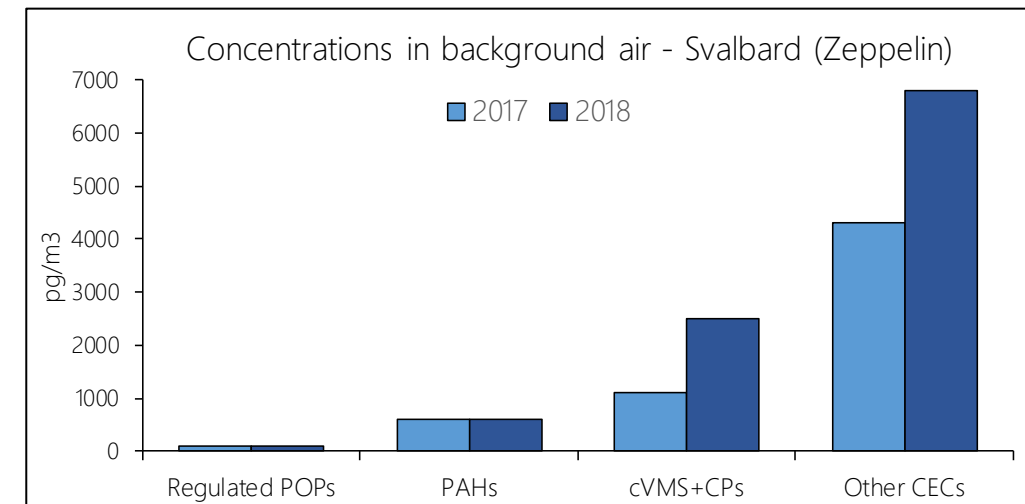
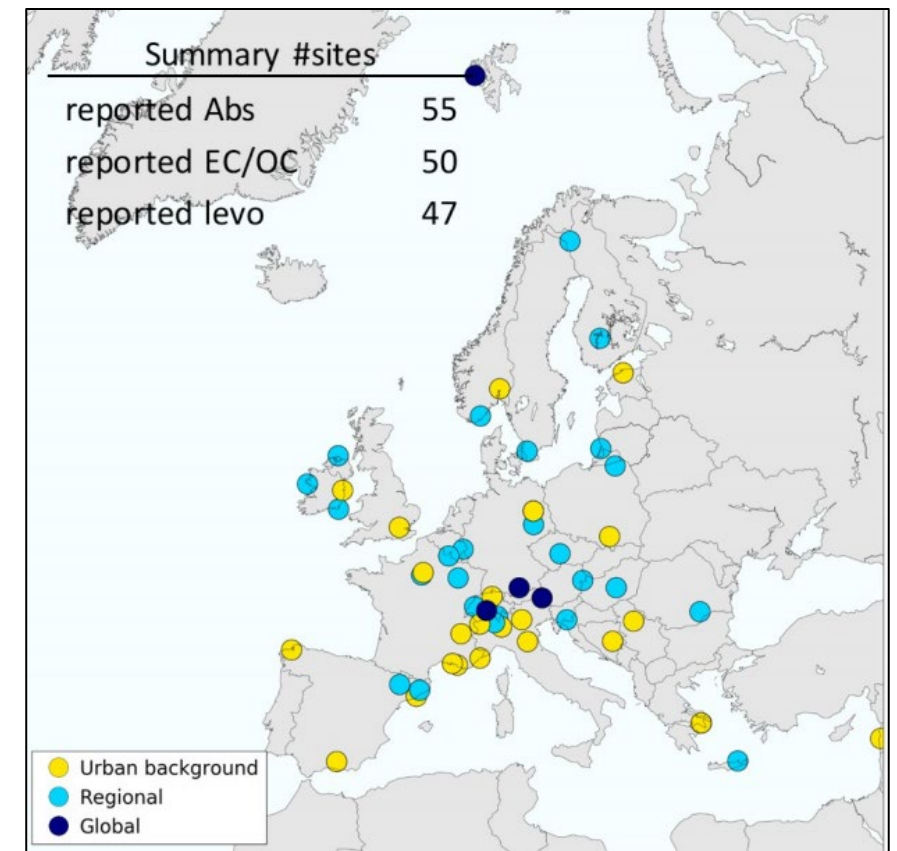
- EMEP/ACTRIS/COLOSSAL winter 2017/2018.  
Final dataset produced and available. Used in Eurodelta  
Peer reviewed publication in progress
- EUA-BCA (AMAP)  
2020: BC Observations report (roadmap)

## 1.1.1.4 Investigating monitoring of chemicals of emerging concern

- Discussions and presentations at TFMM in 2020 and 2021
- Planned workshop and for a workshop late 2021 postponed to 2022 due to COVID

## 1.3.1. Cooperation with CAMS – implementation of NRT

- CAMS24 was never initialized
- EMEP data are partly delivered through EEA
- CAMS21 (ACTRIS) reaching its end and a follow-up is being planned



# Licencing of EMEP data

- Growing interest to use and develop services based open data, but poor or no «feedback» to the resources behind
- Complex «Framework» situation (data belong to different organizations, with different interests and governance)
- Academic/IPR interests (most EBAS data have «IPR- challenges»)

Poster: Tørseth, Fiebig and Myhre, GAW symposium 2021.

## EBAS Data Licence



Draft 0.2

EBAS data is licensed under the [Creative Commons Attribution 4.0 International license](https://creativecommons.org/licenses/by/4.0/legalcode) (CC BY 4.0). The summary of (and not a substitute for) the licence can be found here: <https://creativecommons.org/licenses/by/4.0/legalcode>

For data associated with «Frameworks having a public data policy» (reference XXX), you are free to:

**Share** — copy and redistribute the material in any medium or format

**Adapt** — remix, transform, and build upon the material for any purpose, even commercially

Under the following terms:

**Attribution** — You must give appropriate credit to EBAS@NILU and the individual Frameworks to which datasets are associated. Use constraints: a recommendation, non-legally binding, to attribute in the case of substantial use; the individual data originators and the institutions producing the data (substantial use is generally defined as and in-dept analysis of specific datasets as a basis for scientific publications). You must also provide a link to the licence, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use.

**No additional restrictions** — You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. The licensor cannot revoke these freedoms as long as you follow the license terms.

For data associated with «frameworks with a restricted data policy» (reference xxx), special conditions apply, and is not covered by this public data licence

# ACTRIS - status

- 11 countries (AT, BE, BG, CZ, DE, IT, NO, CH (observer), CY, DK, FI) have formally confirmed their participation in the ACTRIS ERIC.
- FR, PL, RO are delayed but expected to commit by mid-October, while UK, ES, GR, NL have not settled yet
- ERIC Step 2 application in prep
- -> ACTRIS will start 2022, implementation phase (5yr).



# Minamata Convention

NILU has offered the Minamata convention, at no cost, access to use EBAS as a data infrastructure for its Effectiveness Evaluation

# Workplan items 2022-2023

1.1.1.1 Contribute to the **Gothenburg Protocol review**, long term trend analysis and assessing the monitoring programme (+ impacts of Covid-19 (2022))

1.1.1.2 PM<sub>2.5</sub> emissions from **residential combustion** (funding Nordic Council of Minister), Observations of carbonaceous aerosols (SOA, PBOA, BB)

1.1.1.3 EMEP intensive measurement period summer 2022, Focused on **high ozone pollution episodes** incl observations of VOCs and secondary organic aerosols (SOA). Linked to ACTRIS, ACROSS, RI Urban

1.1.1.4 Review of the use of in-situ **VOC measurements**

1.1.1.5 **Benzo[a]pyrene** – (intensive) observations of gas/aerosol partitioning, Eurodelta multimodel intercomparison

1.1.1.6 Monitoring of **chemicals of emerging concern**, Workshop on measurement and modelling of new contaminants (2023), a preparatory survey on measurement methods. Microplastics