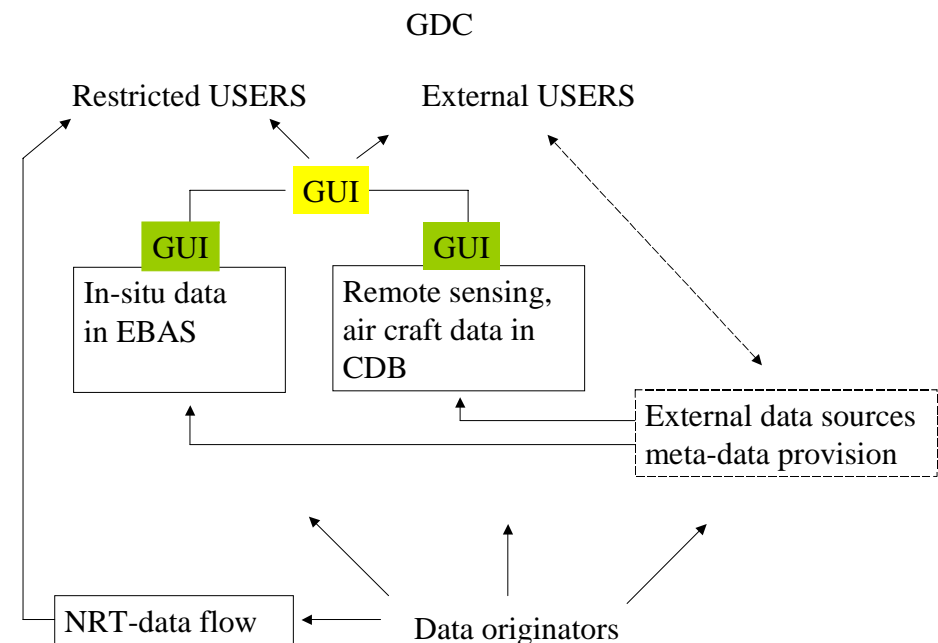


Vision of the Geomon Data Centre (GDC)

- Establish a one-stop-shop for access to European data on atmospheric composition - enable search for and retrieval of data
- Building on existing infrastructures with a long-term perspective on operations
- Simplify data upload and download procedures
- Provide visibility to all data providers, participating scientists and programmes

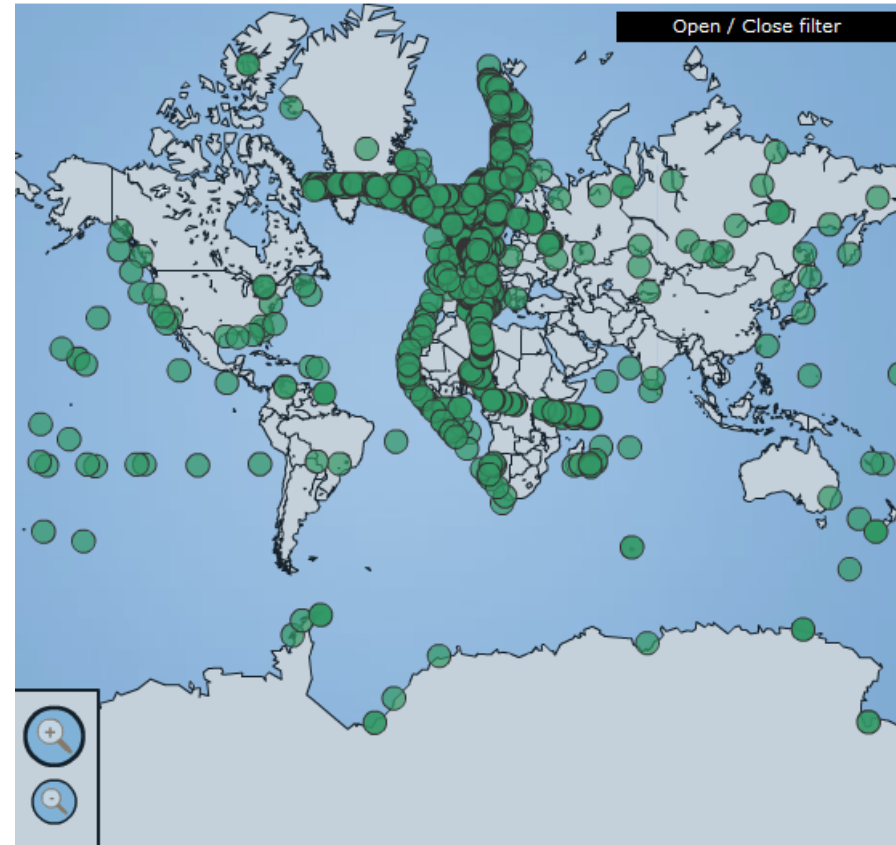


What is important in relation to data archival depends on who you ask !

- Funding agency:
 - cost efficient, compliance, acknowledgement
- Data provider:
 - acknowledgement, little effort
- Data centre:
 - maintain links with DO, visibility
- Data user:
 - low effort, value adding

Envisat Campaign Database (CDB)

- Correlative data from in-situ and remote-sensing instruments and from numerical simulations
- Atmospheric and oceanographic measurements from aircraft, balloons, satellites, buoys and groundbased sources
- Operational since mid 2002



The CDB Web-Interface

- On-line documentation
- Download documents and tools
- Upload data
- Search for data
- Browse data file content
- CDB handles also non-HDF files, e.g. imagery, within the same framework

Presentation of EBAS

Available datasets: 16434

Available datasets: 16434

Nations	Stations	Projects (Info)
All	All	All
Austria	Achenkirch	EMEP
Belarus	Ahtari II	NILU
Belgium	Aliartos	HELCOM
Bosnia and Hercegovina	Ammarnäs	CREATE
Bulgaria	Andøya (Alomar)	EUSAAR
Croatia	Anholt	
Cyprus	Anschütz	

From 1970 To 2008 Show map View datasets Reset

Welcome to EBAS

EBAS is a database hosting observation data of atmospheric chemical composition and physical properties. EBAS hosts data submitted by data originators in support of a number of national and international programs ranging from monitoring activities to research projects. EBAS is developed and operated by the Norwegian Institute for Air Research (NILU).

Data availability and data policy issues

All datasets in EBAS are associated to one or more "projects", having individual rules for data disclosure (if a dataset is associated to several projects the one with the least restrictive data policy will actually limit the access). The project association is normally set by the data originator through the submission process, but can also be set by the data base management team at NILU.

- Public data

Most of the data stored in EBAS are originating from programs encouraging an unlimited and open data policy for non-commercial use. For scientific purposes, access to these data is unlimited and provided without charge. By their use you accept that an offer of co-authorship will be made through personal contact with the data providers or owners whenever substantial use is made of their data. In all cases, an acknowledgement must be made to the data providers or owners and to the project name when these data are used within a publication. Public data are available without login.

- Data with restrictions

Access to restricted data requires the user to approve the associated data policy. The approval process which follows may in simple cases be an automatic procedure where the users by default is granted access (a log of signed data policy agreements is stored at NILU), or in more restricted cases will the request be handled by an authorized person on behalf of the formal deciding body of the respective project.

For more information about data policies associated to the projects with data stored in EBAS, please visit this page (LINK to a page where all projects in EBAS are listed, and there on to the respective "data policy documents". This page does not exist yet so please make a page with the following statement "A list of projects with associated data policy descriptions is currently being prepared. An automated access control unit is also in preparation. For the time being, please contact the data management team at NILU (url: <http://www.nilu.no/projects/ccc/about.html>).

General disclaimer

EBAS was mainly developed during 1995-2000, and has since 2006 been running on an external server. This allows direct queries through a web interface (first version launched in 2008). The functionality for external users is still limited and under development. We encourage users to make direct contact with the [database management group](http://www.nilu.no/projects/ccc/about.html) (<http://www.nilu.no/projects/ccc/about.html>) at NILU to get support for export of larger amounts of data in specific formats, calculation of statistics etc. More functionality can be expected in the period to come as we get more experience with the stability of the system.

EBAS hosts data from a number of international programmes and projects, and the project association to the datasets is used to control the access to data for users. This document lists the three different types of access control procedures currently in place. It further gives a short description of the various projects and their availability. Any enquiries on how to get access to restricted data can be addressed to the [database team](#) at NILU.

Public datasets

Datasets associated with projects having a "public" data policy are accessible without login/password. The user will however need to approve the general rules for use of data including how to make acknowledgements etc. The public data policy complies with the rules used by international programmes like EMEP, WMO-GAW and others. The data policy disclaimer is shown when a user first enters the web interface and there is a need at the end of the policy document to confirm that the terms are approved. The confirmation needs renewal on a monthly basis. The requirements can at any time be considered through "read disclaimer" button above the login area.

Restricted datasets with simplified procedure

Some projects apply a more restrictive data policy than the "public datasets", but still provide access to data without the need for an approval of users on an individual basis. To access data from such projects the user needs to approve the respective data protocol. The user will then be provided a personal user account for login. Signed protocols are archived at NILU for later reference.

Restricted datasets with approval process

In cases where projects require a restrictive data policy, access is only granted after an individual approval process involving an authorized representative of the respective network/project.

Short description of some of the projects and programmes for which data are available in EBAS are given below:

Please note that the term **primary dataset** has been applied in cases where the database represents an official dataset from a formal reporting obligation or serves as the original source of data for a given programme or project.

EBAS project name	Official name	Introduction	Primary dataset or a secondary copy?	Project leader at NILU	Data policy

AMAP	Arctic Monitoring and Assessment Programme (www.amap.org)	NILU host the official database for the reporting of observations in support of the AMAP assessments	primary dataset	Wenche Aas	Restricted with approval process
CAMP	OSPARCOM - Comprehensive Atmospheric Monitoring Programme www.ospar.org	NILU host the official database for the national obligations for reporting to the programme	primary dataset	Kevin Barrett	Restricted with approval process
EMEP	European Monitoring and Evaluation Programme www.emep.int	NILU host the official database for the CLRTAP-EMEP. This comprise the majority of data in EBAS	primary dataset	Kjetil Torseth	Public data
NILU	Norwegian Background Air and Precipitation Monitoring Programme www.nilu.no www.sif.no	NILU has since the early 1970ies operated a number of background sites in Norway for the assessment of air pollution. The data are available in EBAS	primary dataset	Wenche Aas	Public data
HELCOM	HElSinki COMmission on the protection of the Baltic Sea www.helcom.fi	NILU host the official database for the national obligations for reporting to the programme	primary dataset	Wenche Aas	Public data
CAMPAIGN	Results from EMEP intensive campaigns www.emep.int	Intrusive campaigns have been performed in support of EMEP level 2 and level 3 requirements. Data availability are limited until data has been interpreted by the participants	primary dataset	Wenche Aas	Restricted with simplified procedure
HTAP	EMEP T F Hemispheric Transport on Air Pollutants www.htap.org	The HTAP data compilation is established in support of the experiments of the EMEP T FHTAP (see www.htap.org). The compilation is based on an import of data from various regional programmes	Compilation of data from a wide range of primary regional datasets including CAPMON, IMPROVE, NADP, CASTNET, EANET, GAW, EMEP, national programmes etc.	Paul Eckhardt	Restricted with simplified procedure

Nations All Finland France Germany Greece Hungary Ireland Italy

Stations All Aspveten Birkenes Cabauw Finokalia Harwell Hyytiälä Ispra

Projects (Info) All EMEP NILU HELCOM CREATE EUSAAR

From 1970 To 2008 [Show map](#) [View datasets](#) [Reset](#)



Nations All Finland France Germany Ireland Italy Spain Switzerland

Stations All Hohenpeissenberg Hyytiälä Ispra Jungfraujoch Mace Head Montseny Mt Cimone

Projects (Info) All CREATE EUSAAR EMEP

Instrument All aethalometer aps b-attenuation cpc dmps high_vol_sampler low_vol_sampler

Components All aerosol_absorption_coefficient averaged_attenuation_coefficient black_carbon

From 1970 To 2008 [Show map](#) [View datasets](#) [Reset](#)



Home Menu options for selected items: Plot Save normal Date selection (valid for menu options): From: To:

Update view Note: Selecting large amount of datasets may result in slow processing time. [ki@nilu.no](#)

Select all / Deselect all

EMEP-code: CH0001G Station: Jungfraujoch Country: Switzerland (16 datasets)

Station	Instrument	Component	Matrices	Start time	End time	Remarks
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2001	01.01.2008	aerosol black carbon; 370 nm; ng/m3
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2001	01.01.2008	aerosol black carbon; 470 nm; ng/m3
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2001	01.01.2008	aerosol black carbon; 520 nm; ng/m3
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2001	01.01.2008	aerosol black carbon; 590 nm; ng/m3
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2001	01.01.2008	aerosol black carbon; 660 nm; ng/m3
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2001	01.01.2008	aerosol black carbon; 880 nm; ng/m3
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2001	01.01.2008	aerosol black carbon; 950 nm; ng/m3
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2001	01.01.2008	aerosol absorption coefficient; 370 nm; 1/Mm
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2001	01.01.2008	aerosol absorption coefficient; 470 nm; 1/Mm
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2001	01.01.2008	aerosol absorption coefficient; 520 nm; 1/Mm
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2001	01.01.2008	aerosol absorption coefficient; 590 nm; 1/Mm
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2001	01.01.2008	aerosol absorption coefficient; 660 nm; 1/Mm
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2001	01.01.2008	aerosol absorption coefficient; 880 nm; 1/Mm
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2001	01.01.2008	aerosol absorption coefficient; 950 nm; 1/Mm
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.1995	01.01.2000	aerosol black carbon with white light; ng/m3
<input type="checkbox"/> CH0001G	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.1995	01.01.2000	aerosol absorption coefficient with white light; 1/Mm

EMEP-code: DE0043G Station: Hohenpeissenberg Country: Germany (1 datasets)

Station	Instrument	Component	Matrices	Start time	End time	Remarks
<input type="checkbox"/> DE0043G	aethalometer	black_carbon	aerosol	01.06.2006	01.07.2006	

EMEP-code: ES0017R Station: Montseny Country: Spain (1 datasets)

Station	Instrument	Component	Matrices	Start time	End time	Remarks
<input type="checkbox"/> ES0017R	aethalometer	aerosol_absorption_coefficient	aerosol	01.01.2005	01.01.2006	

EMEP-code: FI0050R Station: Hyytiälä Country: Finland (7 datasets)

Station	Instrument	Component	Matrices	Start time	End time	Remarks
<input type="checkbox"/> FI0050R	aethalometer	black_carbon	aerosol	31.12.2003	31.12.2006	aerosol black carbon; 370 nm; ug/m3

- Trajectories
- Measurement
- Site description
- Data submission
- EMEP/CoCART

Nations
 All
 Austria
 Belarus
 Belgium
 Bosnia and Herzegovina
 Bulgaria
 Cambodia
 Cameroon

Stations
 All
 Abington (CT15)
 Abisko
 Acadia National Park-McF...
 Achenkirch
 Agronomy Center for Resea...
 Ahtari II
 Alusheva, Mchavik, Fort C...

Projects (Info)
 All
 AMAP
 CAMP
 EMEP
 NILU
 HELCOM
 CAMPAIGN
 CAMDP

Instrument
 All
 abs_solution
 abs_tube
 ads_tube
 aethalometer
 air_UK
 amalg_tube
 AMS

From 1970 To 2008 Show map View datasets Reset



Instrument
 All
 abs_solution
 AMS
 bulk_sampler
 filter_1pack
 filter_2pack
 filter_3pack
 filter_abs_solution

Components
 selenium
 sodium
 sulphate_corrected
 sulphate_seasalt
 sulphate_total
 susp_part_matter
 tetrachloroveratrole
 titanium

Matrix
 All
 aerosol
 air
 air+aerosol
 met
 pm1
 pm10
 pm10_pm25

Available datasets: 483

Select all / Deselect all

EMEP-code: AT0002R Station: Illmitz Country

Station	Instrument	Component	Matrices	Start time	End time
<input type="checkbox"/> AT0002R	filter_1pack	sulphate_total	aerosol	01.01.1997	01.01.1999
<input type="checkbox"/> AT0002R	filter_3pack	sulphate_total	aerosol	01.01.1999	01.01.2007
<input type="checkbox"/> AT0002R	filter_1pack	sulphate_total	aerosol	01.01.1978	01.01.1995
<input type="checkbox"/> AT0002R	filter_3pack	sulphate_total	aerosol	01.06.2006	01.02.2007
<input type="checkbox"/> AT0002R	sulphate_monitor	sulphate_total	aerosol	01.01.2007	06.02.2007

CAMPAIGN
 CAMDP

Available datasets: 3754

Show map View datasets Reset





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- [Read Disclaimer](#)

- [Trajectories](#)
- [Measurement network](#)
- [Site descriptions](#)
- [Data submission](#)
- [EMEP/CCC reports](#)
- [Presentations](#)
- [Quality assurance](#)
- [EMEP manual](#)



EMEP-code: CH0001G Station: Jungfrauoch

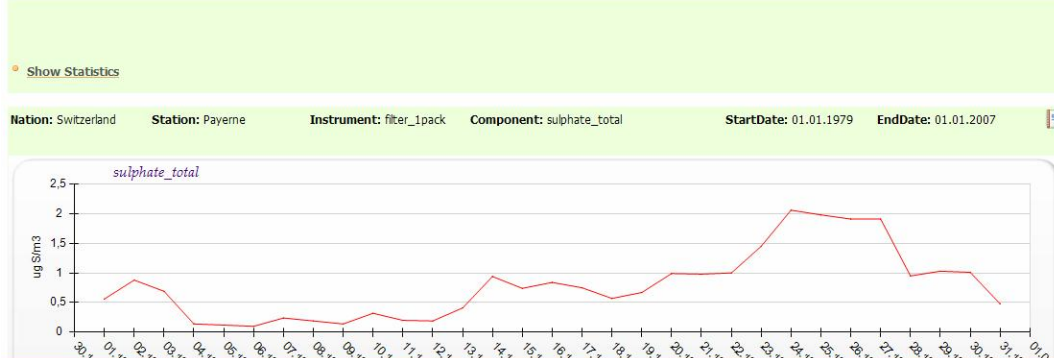
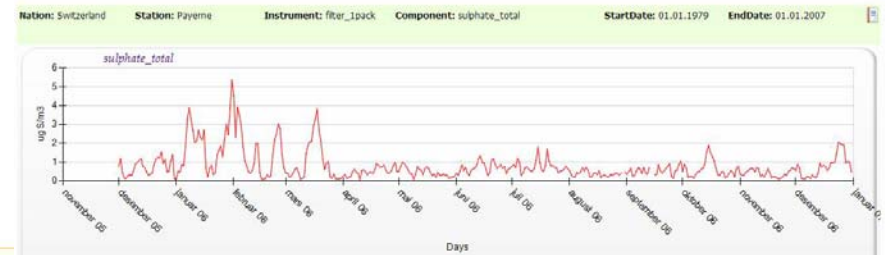
Station	Instrument	Component	Matrices	Start time
<input checked="" type="checkbox"/>   CH0001G	filter_1pack	sulphate_total	aerosol	01.01.1980

EMEP-code: CH0002R Station: Payerne

Station	Instrument	Component	Matrices	Start time
<input checked="" type="checkbox"/>   CH0002R	filter_1pack	sulphate_total	aerosol	01.01.1979

EMEP-code: CH0005R Station: Rigi

Station	Instrument	Component	Matrices	Start time
<input checked="" type="checkbox"/>   CH0005R	filter_1pack	sulphate_total	aerosol	01.01.1992



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- [Read Disclaimer](#)

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- [Measurement network](#)
- [Site descriptions](#)
- [Data submission](#)
- [EMEP/CCC reports](#)
- [Presentations](#)
- [Quality assurance](#)
- [EMEP manual](#)
- [EMEP laboratory intercomparisons](#)
- [TFMM](#)
- [HTAP](#)
- [Measurement programme/strategy \(pdf file\)](#)



Flextra - Air mass trajectories

Content

- Home
- About:
 - Plots
 - Flextra
 - ECMWF data
- Locations
- Tools
- Datafiles



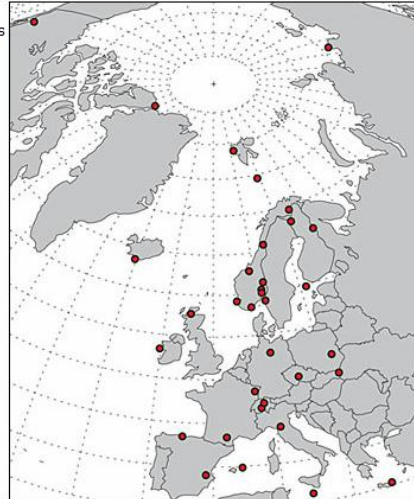
Location Time Day Month Year Plot < Prev Next >

Select location, time and date and push the "Show plot" button above. Use the "Prev." and "Next" buttons to toggle through series of plots with 6 hours intervals.

14 November 2007:
New plots are added. Total number of sites is now 293.

Note:
Each plot shows three trajectories at different arrival heights. For sites lower than 1000m asl, these are 500, 1000 and 1500 m asl., for the other sites they are station height and +/- 500 m, except for Earlinet stations where all trajectories are calculated for 1500, 3000 and 5000 m arrival height.

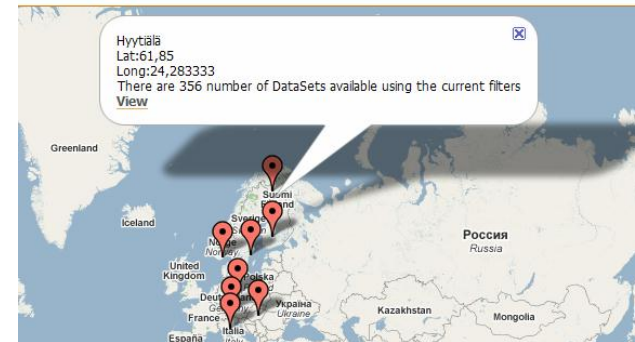
Any comments, ideas, suggestions etc., are greatly welcome, e-mail to: Trajectories@nilu.no



Air mass trajectories are calculated using the Flextra model developed by Andreas Stohl (NILU) in cooperation with Gerhard Wotawa og Petra Seibert (Institute of Meteorology and Geophysics, Vienna) and using meteorological data provided from ECMWF (European Centre for Medium Range Weather Forecast). Publications using FLEXTRA results are requested to include an acknowledgement of, and citation to ECMWF, NILU and the model developers.

Stations	Projects (Info)	Instrument	Components
All Aspvreten Birkenes Hohenpeissenberg Hyytiälä K-puszta Melpitz Mt Cimone	All CREATE EMEP EUSAAR	CEH_denuder chemiluminesc continuous_colorimetric cpc denuder dicho diffusion_tube dmeps	All particle_number_size_dist

2008



Log In

You are k

Additional Resources

- Trajectories
- Measurement network (EMEP)
- Measurement network (GAW)
- Site descriptions
- Data submission
- EMEP/CCC reports
- Presentations
- Quality assurance
- EMEP manual
- EMEP laboratory intercomparisons
- TFMM
- HTAP

Additional Resources

- Trajectories
- Measurement network (EMEP)
- Measurement network (GAW)
- Site descriptions
- Data submission
- EMEP/CCC reports
- Presentations
- Quality assurance
- EMEP manual
- EMEP laboratory intercomparisons
- TFMM
- HTAP

Select all / Deselect all

EMEP-code: FI0050R	Station: Hyytiälä	Country: Finland	(372 datasets)
Station	Instrument	Component	Matrices Start time End time Remarks
<input checked="" type="checkbox"/> FI0050R	dmeps	particle_number_size_distribution	aerosol 25.01.1996 28.02.1996 size bin; 1; 2.7; 3.4
<input type="checkbox"/> FI0050R	dmeps	particle_number_size_distribution	aerosol 25.01.1996 28.02.1996 size bin; 2; 3.4; 4.3
<input type="checkbox"/> FI0050R	dmeps	particle_number_size_distribution	aerosol 25.01.1996 28.02.1996 size bin; 3; 4.3; 5.5
<input type="checkbox"/> FI0050R	dmeps	particle_number_size_distribution	aerosol 25.01.1996 28.02.1996 size bin; 4; 5.5; 7.0
<input type="checkbox"/> FI0050R	dmeps	particle_number_size_distribution	aerosol 25.01.1996 28.02.1996 size bin; 5; 7.0; 8.8
<input type="checkbox"/> FI0050R	dmeps	particle_number_size_distribution	aerosol 25.01.1996 28.02.1996 size bin; 6; 8.8; 11.1
<input type="checkbox"/> FI0050R	dmeps	particle_number_size_distribution	aerosol 25.01.1996 28.02.1996 size bin; 7; 11.1; 14.0
<input type="checkbox"/> FI0050R	dmeps	particle_number_size_distribution	aerosol 25.01.1996 28.02.1996 size bin; 8; 14.0; 16.9
<input type="checkbox"/> FI0050R	dmeps	particle_number_size_distribution	aerosol 25.01.1996 28.02.1996 size bin; 9; 16.9; 19.9
<input type="checkbox"/> FI0050R	dmeps	particle_number_size_distribution	aerosol 25.01.1996 28.02.1996 size bin; 10; 19.9; 23.7
<input type="checkbox"/> FI0050R	dmeps	particle_number_size_distribution	aerosol 25.01.1996 28.02.1996 size bin; 11; 23.7; 27.9



Hide Statistics

Name	Min	Max	MaxDate	MinDate
size 1	0	4547,3101	07.02.1996 09:00:00	28.01.1996 00:00:00
size 2	0	3748,48	18.02.1996 14:00:00	28.01.1996 00:00:00
size 3	0	10245,6396	12.02.1996 12:00:00	28.01.1996 00:00:00
size 4	0	48111,4297	03.02.1996 16:00:00	28.01.1996 00:00:00
size 5	0	14252,71	12.02.1996 07:00:00	28.01.1996 00:00:00

The GEOmon Data Centre

GEOmon Data Centre
Global Earth Observation and Monitoring

Database: All, EBAS, ESA-CDB
Type: All, measurement.insitu, measurement.remo, model.result
Platform: All, station, aircraft, satellite
Component: All, o3, vertical.wind.velocity
Matrix: All, air
Location: All, NO0001R, Polar.Regions, NO0057R
Instrument location: All, NO0001R, FALCON, SPOT4

Available datasets: 8

Latitude: From: -90,00 To: 90,00
Longitude: From: -180,00 To: 180,00
Altitude: From: -600,00 To: 10000,00
Date: From: 01.01.1970 To: 01.10.2008

List datasets Show Map Reset

GEOmon - Windows Internet Explorer
 http://www3.niu.no/GEOmonDataCentre/Default.aspx

Database: All, EBAS, ESA-CDB
 Type: All, measurement.insitu, measurement.remot
 Platform: All, station, aircraft
 Component: All, o3, vertical wind velocit
 Matrix: All, air
 Location: All, NO0001R
 Instrument location: All, NO0001R, FALCON

Available datasets: 3

Latitude: From -90,00 To 90,00
 Longitude: From -180,00 To 180,00
 Altitude: From -600,00 To 10000,00
 Date: From 01.01.1970 To 01.10.2008

List datasets Show Map Reset

GEOmon - Windows Internet Explorer
 http://www3.niu.no/GEOmonDataCentre/DataSets.aspx?&types=measurement.insitu&&components=o3&&&latmin=-90&latmax=90&lonmin=-180&lonma

GEOmon
 Global Earth Observation and Monitoring

GEOmon Data Centre

Note: Selecting large amount of datasets may result in slow processing time.

Download

Download	Database	Type	Platform	Component	Matrix	Location	Instrument Location	Start Time	End Time	Details
Database: EBAS										
<input type="checkbox"/>	EBAS	measurement.insitu	station	o3	air	NO0001R	NO0001R	30.06.1985 23:00:00	31.12.2007 23:00:00	Details
Database: ESA-CDB										
<input type="checkbox"/>	ESA-CDB	measurement.insitu	aircraft	o3	air		FALCON	03.09.2002 07:57:27	03.09.2002 07:57:27	Details
<input type="checkbox"/>	ESA-CDB	measurement.insitu	aircraft	o3	air		FALCON	03.09.2002 07:59:21	03.09.2002 07:59:21	Details

GEOmon - Windows Internet Explorer
 http://www3.nilu.no/GEOmonDataCentre/DataSets.aspx?&types=measurement.insitu&&components=o3&&&latmin=-90&latmax=90&lonmin=-180&lonma

GEOmon
 Global Earth Observation and Monitoring

GEOmon Data Centre

Note: Selecting large amount of datasets may result in slow processing time.

Download

Download	Database	Type	Platform	Component	Matrix	Location	Instrument Location	Start Time	End Time	Details
Database: EBAS										
<input type="checkbox"/>	EBAS	measurement.insitu	station	o3	air	NO0001R	NO0001R	30.06.1985 23:00:00	31.12.2007 23:00:00	Details
Database: ESA-CDB										
<input checked="" type="checkbox"/>	ESA-CDB	measurement.insitu	aircraft	o3	air	FALCON	FALCON	03.09.2002 07:57:27	03.09.2002 07:57:27	Details
<input checked="" type="checkbox"/>	ESA-CDB	measurement.insitu	aircraft	o3	air	FALCON	FALCON	03.09.2002 07:59:21	03.09.2002 07:59:21	Details

GEOmon - Windows Internet Explorer
 http://www3.nilu.no/GEOmonDataCentre/download.aspx

GEOmon
 Global Earth Observation and Monitoring

GEOmon Data Centre

Note: Selecting large amount of datasets may result in slow processing time.

Select	File Name
<input checked="" type="checkbox"/>	aircraft_asur_ubremen001_falcon_o2_20020903t075727z_001.hdf
<input checked="" type="checkbox"/>	aircraft_asur_ubremen001_falcon_o2_20020903t075921z_001.hdf

Press the Download button to get dataset files from CDB

[Download datasets from CDB](#)

Review of dataflow as a basis for decisions

Example; WDCGG – EMEP

- <http://gaw.kishou.go.jp/cgi-bin/wdcgg/catalogue.cgi>
- Total number of localities is 297 sites, **109** in Europe
- 17 entries are from same locality but by different institutions -> **91 unique** localities
- 6 urban sites (NO₂, O₃ or SO₂ measurements), 12 are links to EMEP VOC data (no data reported)
- 14 entries are provided directly from NOAA/CMD and AGAGE, i.e. there is no direct dataflow from the site to the WDCGG
- 27 sites have no data submissions after 2002 (18 of these have no submissions after 1999)
- The number of "active" GAW sites is thus approximately **45 sites** (not including the city sites or multiple entries)("active in this sense means that there is an operational dataflow directly from the site to the WDC, and that data have been reported after 2002)
- about **40** of these sites are associated with EMEP

Station Name	Country/Territory	Contributor	Parameter	EMEP-site?	"GAW active"	data update	comment	duplication if virtual access from WDCGG	dataset not in ebas
Brotjackrie	GERMANY	UBA	CO2, O3	emep	x	co2-2002, o3-2002		1	1
Deuselbach	GERMANY	UBA	CH4, CO2, O3	emep	x	2004		1	2
Fundata	ROMANIA	INMH	CO2, NO2, O3	emep	x	2005		2	1
Giordan Lija	MALTA	University of Malta	CO, O3	emep	x	03-2005, CO-2005		2	0
Iskrba	SLOVENIA	EARS	O3, SO2	emep	x	2006		2	0
Jarczew *	POLAND	IMWM	NO2, SO2	emep	x	2007		2	0
Jungfraujoch	SWITZERLAND	EMPA	CO, NO, NO2, NOx, O3, SO2	emep	x	2006		5	0
Kovk *	SLOVENIA	EARS	O3	emep	x	2006		1	0
K-puszta	HUNGARY	HMS	CO2, NO2, O3, SO2	emep	x	2006		4	1
Krvavec *	SLOVENIA	EARS	CO, O3	emep	x	2006		2	0
Leba *	POLAND	IMWM	NO2, SO2	emep	x	2007		2	0
Mace Head	IRELAND	LSCE	CO2	emep	x	2006		0	1
Mace Head	IRELAND	NUI	O3	emep	x	2004		1	0
Mace Head	IRELAND	AGAGE	CCI4, CBrClF2, CBrF3, CFCs, CH2Cl2, CH3Br, CH3CCl3, CH3Cl, CH4, CHCl3, CO, H2, HCFCs, HFCs, N2O, SF6	emep	x	2006			16
Mace Head	IRELAND	NOAA/GMD	13CO2, C18O2, CCI4, CFCs, CH3CCl3, CH4, CO, CO2, H2, HCFCs, HFCs, N2O, SF6	emep	x	2007			13

Example; WDCGG – EMEP cont.

- EMEP do not have most of the GHGs, while for reactive species there is a very large overlap
- EMEP has many additional parameters at the associated sites
- Number of **duplicates** if the WDCGG is virtually integrated adds up to **123 datasets**
- Number of datasets which are currently **not available in EBAS** add to **197 datasets**
- Of these, the number of datasets provided from NOAA/GMD and AGAGE is about 98 datasets
- -> **100 datasets** where European DOs will need to adapt alternative dataflow
- NILU will offer to GAW to act as a European node for data provision to the WDCGG (similar to the WDCA and WDCPC)(GAW has expressed its support – formalities remain).
- Decision wrt reporting remains with the DOs !