

# CLRTAP/EMEP

## Collaboration with Northern Africa

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*Head of the EMEP Chemical Coordinating Centre (EMEP/CCC)*

- Introduction to CLRTAP and its protocols
- role of EMEP centres and the obligation of Parties
- EMEP in relation to efforts in other regions
- How can we help in the future?

# EXECUTIVE BODY

# IMPLEMENTATION COMMITTEE

## WG EFFECTS

ICP  
Forests  
Task Force

Programme  
Coordinating  
Centre

ICP  
Integrated Monitoring  
Task Force

Programme  
Centre

ICP  
Modelling and Mapping  
Task Force

Coordination  
Centre for  
Effects

ICP  
Materials  
Task Force

Main Research  
Centre

ICP  
Vegetation  
Task Force

Programme  
Centre

ICP  
Waters  
Task Force

Programme  
Centre

Task Force  
Health

## EMEP

Task Force on Emission  
Inventories and Projections

Centre for Emission  
Inventories and Projections

Task Force on  
Measurement and Modelling

Chemical Coordinating  
Centre

Meteorological Synthesizing  
Centre-West

Meteorological Synthesizing  
Centre-East

Task Force on Integrated  
Assessment Modelling

Centre for Integrated  
Assessment Modelling

TF on Hemispheric  
Transport of Air Pollution

## WG STRATEGIES AND REVIEW

Task Force on  
Reactive Nitrogen

Task Force on  
Heavy Metals

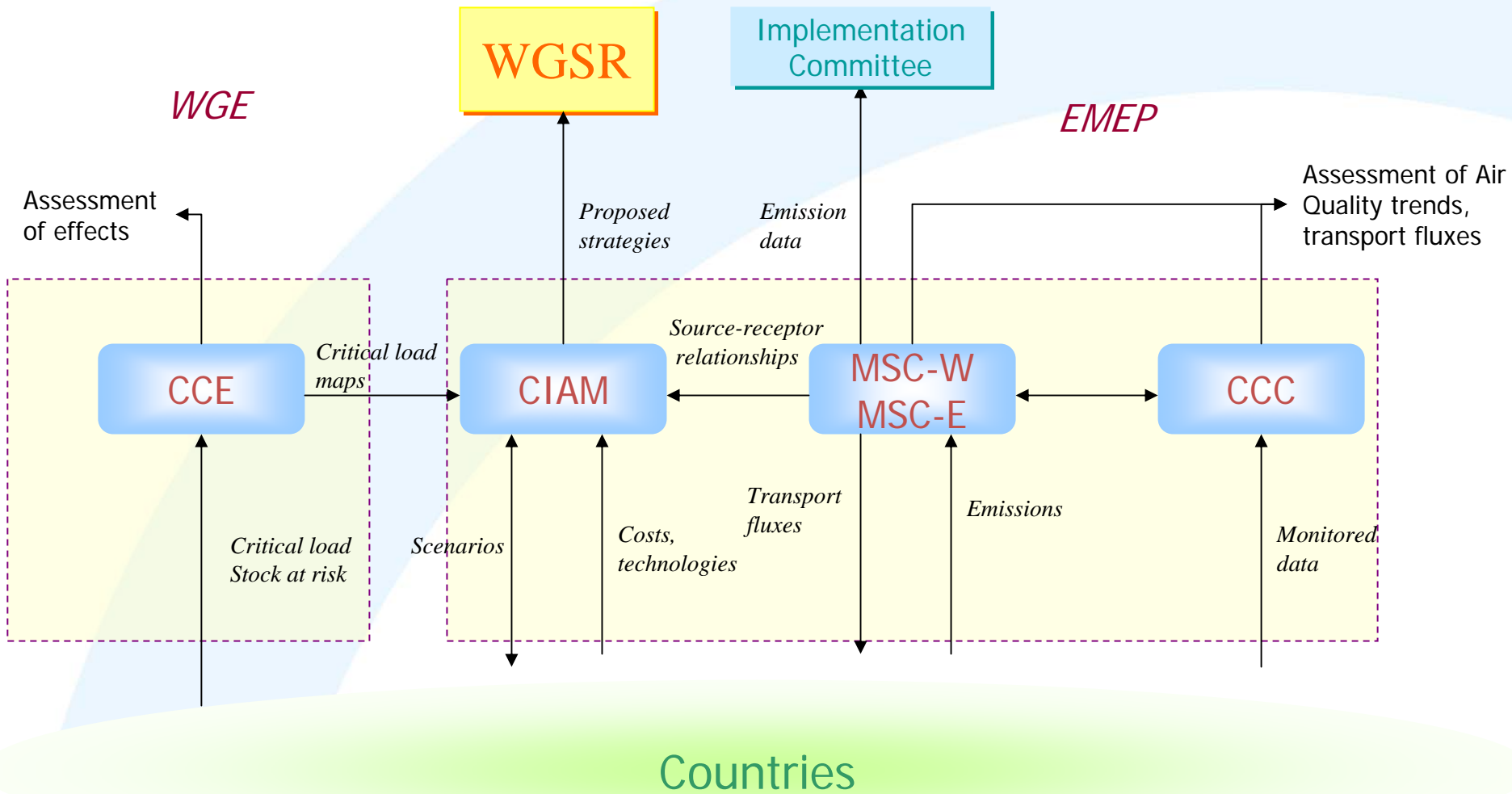
Network of Experts  
on Benefits and  
Economic Instruments

Expert Group on  
Techno-economic Issues

Task Force  
on POPs

Expert Group on  
Particulate Matter

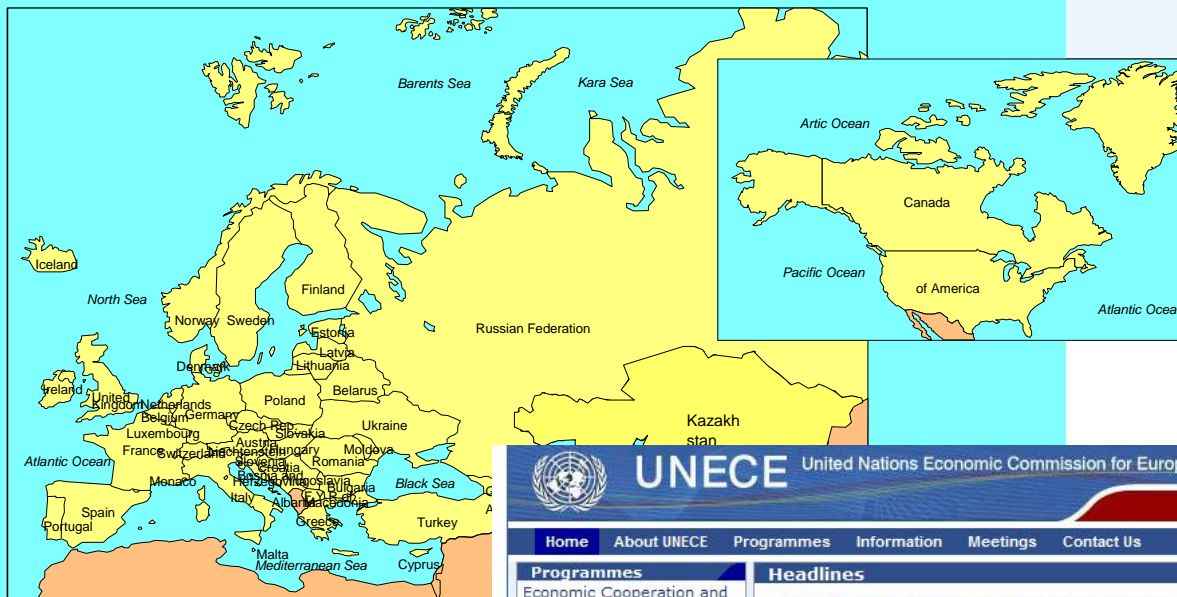
# The "operational system" of the CLRTAP



# CONVENTION ON LONG-RANGE TRANSBOUNDARY AIR POLLUTION

## 51 Parties in Europe, North America and Central Asia

There are many Parties to the Convention, but the Convention itself is just a framework.....



[www.unece.org](http://www.unece.org)



**UNECE** United Nations Economic Commission for Europe

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**Programmes**

- Economic Cooperation and Integration
- Environmental Policy
- Housing and Land Management
- Statistics
- Sustainable Energy
- Technical Cooperation
- Timber
- Trade
- Transport

**Statistics**

- Statistical Data On-Line

**Quick links**

- Intersectoral Activities
- Climate Change
- UNECE Legal Instruments
- Economic Analysis
- Guide for Biennial Evaluations by Sectoral Committees
- Agricultural Standards
- Convention on Long-range Transboundary Air Pollution

**Headlines**

**UNECE's Convention on Long-range Transboundary Air Pollution celebrates 30th Anniversary**  
Initiated due to the public outcry against the detrimental impacts of Acid Rain in Europe, the Convention on Long-range Transboundary Air Pollution (CLRTAP) was signed in 1979 and entered into force in 1983. As the first regional environmental convention, CLRTAP has been instrumental in the reduction of key harmful pollutants in both Europe and North America. [Tuesday, 24 November 2009]

**Making our homes energy efficient: UNECE takes action**  
Buildings are responsible for more than a third of total energy consumption in the UNECE region. To make housing both more efficient and environmentally friendly, member States need to invest in energy-saving. Substantial energy savings can be achieved both by adopting the latest technology and through institutional and behavioural changes. Less economically developed countries in particular need to overcome the "energy inefficiency trap". This requires funding, experience, technology, motivation and initiative. [Monday, 23 November 2009]

**How to prevent climate conflict over dwindling water resources? UNECE releases Guidance on Water and Adaptation to Climate Change**  
Countries need to adapt to climate change jointly without delay! This is the main message of the *Guidance on Water and Adaptation to Climate Change*, developed under the UNECE Convention on the Protection and Use of Transboundary Watercourses and International Lakes (Water Convention) and recently adopted by its 36 Parties at their fifth meeting (Geneva, 10–12 November). [Friday, 20 November 2009]

**UNECE launches Policy Briefs on Ageing**  
Population ageing is one of the biggest challenges of our century. While working age adults currently make up the largest share of the population in the UNECE region and percentages of dependent children and older adults are relatively small, this situation is changing rapidly. In Europe, there are now 4.4 persons of working age per one person 65 or older. [Friday, 20 November 2009]

# Eight CLRTAP Protocols

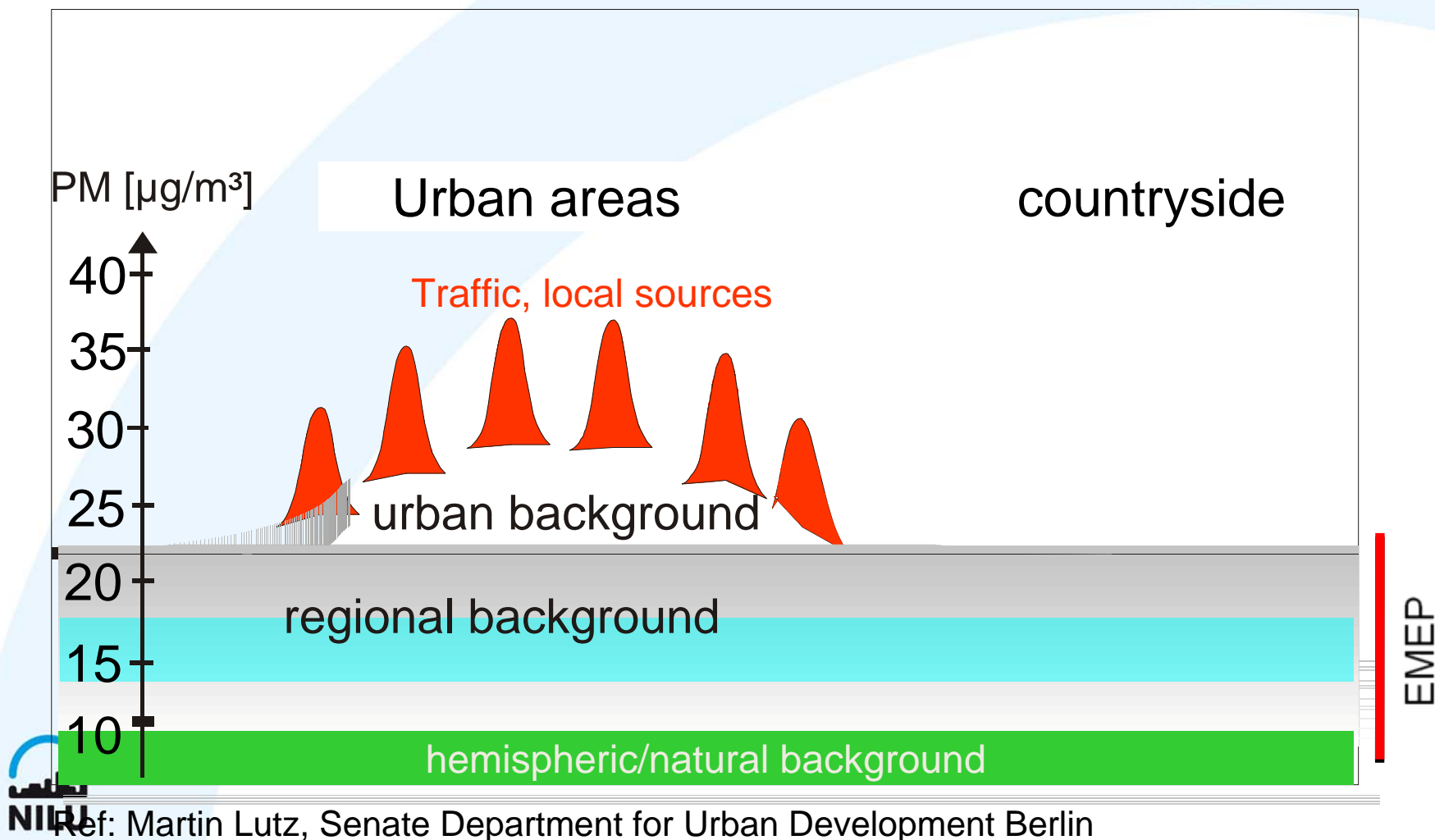
**EMEP Protocol (1984), 42 Parties  
and Seven topic specific protocols on emission targets**

Closely linked to European Commission Directives and those of other Conventions

**Adresses: Acidification, Eutrophication, photo-oxidants, heavy metals,  
Persistent organic pollutants, particulate matter**

# Global – regional – local issues

Illustration from Berlin where almost 50% of the  $PM_{10}$  concentration comes from the regional background





- About EMEP
- Events
- Publications

- Emission Data

- Measurement data
- Measurement network

- Unified EMEP model
- GAINS/RAINS model
- HMs and POPs models

- HMs and POPs model data
- HMs and POPs country reports
- Air Concentrations and Depositions
- Source-Receptor Calculations
- Air Trajectories

## Welcome to EMEP

EMEP (European Monitoring and Evaluation Programme) is a scientifically based and policy driven programme under the Convention on Long-range Transboundary Air Pollution for international

This website is intended to facilitate the understanding and accessibility of the information compiled under the Co-operative Programme for Monitoring and Evaluation of the Long-range Transmission of Air pollutants in Europe. The website presents here together with updated EMEP data on the European regional air quality concerning acidification, eutrophication, ground level ozone, heavy metals, persistent organic compounds and

## NEWS AND UPDATES

**2009-09-08** **Corrected country reports, source-receptor relationships and model results for 2007**

New model calculations have been performed with corrected emission data for 2007. Corrected [country reports](#), [source-receptor tables](#) and [performance](#) are now available along with updated [downloadable model results](#) for 2007.

**2009-08-27** **Important information on source-receptor relationships for 2007**

A mistake has been found in the gridding of emissions for Croatia for 2007, affecting model calculations for acidifying and eutrophying compounds (see EMEP Country Data notes 1/2009 and Country Data notes 2009). Nordic countries and neighbor countries of Croatia are most affected. Corrected model results, source-receptor relationships and performance for 2007 will be available by 4th of September.

**2009-08-19** **[Technical Reports to the 33rd Session of the EMEP Steering Body meeting](#)**

can be downloaded from this page. The 33rd Session of the Steering Body to EMEP will take place 7-9 September 2008 in Geneva.

**2009-07-15** **[The 33rd Session of the EMEP Steering Body](#)**

of EMEP will take place 7-9 September 2009 in Geneva.

**2009-06-03** **[TFMM - TF HTAP Joint Workshop: On Regional-Global and Air Quality-Climate Linkage](#)**

in Paris 15-17 June 2009

# EMEP Chemical Coordinating Centre web page (www.emep.int)

Convention on Long-range Transboundary Air Pollution

emep

Co-operative programme for monitoring and evaluation of the long-range transmissions of air pollutants in Europe

msc-  
w



msc-e



ccc

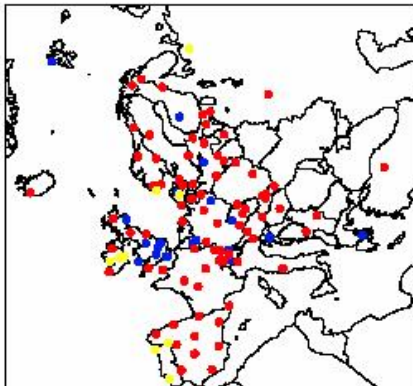


ciam



ceip umweltbundesamt<sup>®</sup>

## Chemical Co-ordinating Centre of EMEP (CCC)



[Contact persons](#)

[Measurement programme/strategy](#) (pdf)

[Relevant links](#)



[Measurement network](#)

[Site descriptions](#)

[Trajectories](#)



[Measurement data](#) (now incl 2007)

[Ebas online](#)

[Data submission](#)



[EMEP/CCC reports](#)

[Presentations](#)

[Revision of the EMEP monitoring strategy \(2010-2019\)](#) **NEW**



[Quality assurance](#)

[EMEP manual](#)

[EMEP laboratory intercomparisons](#)



[TFMM](#)

[HTAP](#)

Last updated: September 2009

Contact persons: [Anne Hjellbrekke](#) or [Wenche Aas](#)

**NILU**

# How to address issues relevant beyond the UNECE CLRTAP domain?

-> [www.htap.org](http://www.htap.org)

To develop a fuller understanding of intercontinental transport of air pollution in the Northern Hemisphere, the Executive Body of the UNECE Convention on Long-range Transboundary Air Pollution (LRTAP Convention) established the Task Force on Hemispheric Transport of Air Pollution (TF HTAP) to:

- (a) Plan and conduct the technical work necessary to develop a fuller understanding of the hemispheric transport of air pollution for consideration in the reviews of protocols to the Convention;
- (b) Plan and conduct the technical work necessary to estimate the hemispheric transport of specific air pollutants for the use in reviews of protocols to the Convention and prepare technical reviews thereon for submission to the Steering Body of EMEP;
- (c) Carry out such other tasks related to the above work as the Executive Body may assign to it in the annual work-plan. [See Annex IV of ECE/EB.AIR/83/Add.1]

The Task Force is chaired by Mr. Andre Zuber (European Community) and Mr. Terry Keating (United States). Participation in the Task Force is open to all interested experts. National authorities (both inside and outside the UNECE region), as well as intergovernmental and accredited non-governmental organizations, are encouraged to nominate an individual expert as a national (or organizational) focal point. To nominate an expert as a focal point, please contact the Convention secretariat by e-mail at [air.env@unece.org](mailto:air.env@unece.org).

The Task Force serves as a forum for international scientific communication and collaboration and as a bridge between the international research community and the international policy community. To focus its work, the Task Force has identified a series of policy-relevant science questions. The Task Force is working to address these questions through periodic assessment reports and through new collaborative research and analysis efforts related to global and regional modeling, emissions and projections, and observations.



Nations	Stations (Info)	Projects (Info)	Instrument (Info)
All	All	All	All
Cameroon	Amersfoort	WMO	bulk_sampler
Cote d'Ivoire	Banizoumbou	IDAF	wet_only_sampler
Mali	Cape Point		
Niger	Katibougou		
South Africa	Lamto		
	Louis Trichardt		
	Zootole		

From 1970 To 2009

Show map List datasets Reset



# WMO – Global Atmosphere Watch

## GAW Country Contact of Tunisia



**Mr Fadhel Grami**

Service Qualité de l'Air Institut National de la Météorologie Tunisia  
B.P. 156  
2035 Tunis-Carthage  
Tunisia

phone

fax

mailto

url

GAW function

contact for

GAW Country Contact  
[Thala](#)

## Stations registered for Tunisia (total: 1)



## GAW Country Contact of Egypt



2009-05-15/-147256320

**Mr. Hamza Mohamed Hamza**

Department of Air Pollution Research Egyptian Meteorological Authority  
Kobry El-Koba, Heliopolise  
11784 Cairo  
Egypt

phone

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url

GAW function

contact for

[hamzamohamed@yahoo.co.uk](mailto:hamzamohamed@yahoo.co.uk)

<http://nwp.qov.eg/>

GAW Country Contact

[Aswan](#), [Cairo](#), [Farafra](#), [Hurghada](#), [Marsa Matrûh](#), [Sidi-Barrani](#), [Siwa](#)

## Stations registered for Egypt (total: 7)



Station	GAWID	Station Type	Operating Status
<b>I - Africa</b>			
Aswan	ASW	Regional	full operation
Cairo	CAI	Regional	full operation
Farafra	FRF	Regional	full operation
Hurghada	HUR	Regional	full operation
Marsa Matrûh	MRS	Regional	full operation
Sidi-Barrani	SDB	Regional	full operation
Siwa		Regional	closed

### GAW Country Contact of Morocco

2009-08-17/2141913746  
**El Johra Bouchra**   
 Head of Service Environment and Biometerology  
 BP 8106 Casa-Oasis face préfecture Hay Hassani  
 CasaBlanca  
 Morocco  
 00 212 522 65 48 16  
 00 212 522 91 37 97  
[beljohra@gmail.com](mailto:beljohra@gmail.com)  
**phone**  
**fax**  
**mailto**  
**url**  
**GAW function**  
**contact for**

### Stations registered for Morocco (total: 3)






Station	GAWID	Station Type	Operating Status
<b>I - Africa</b>			
 Beni Mellal		Regional	intermittent operation
 Casablanca		Regional	full operation
 Ifrane		Regional	intermittent operation

### GAW Country Contact of Algeria

2008-05-28/0  
**Dr. Ferhat Ounnar**   
 Office National de la Météorologie Directeur Général  
 B.P. 153 Dar el Beida  
 16100 Algiers  
 Algeria  
 +213 21 50 69 10/50 78 72  
 +213 21 50 88 49  
[founnar@meteo.dz](mailto:founnar@meteo.dz)  
**phone**  
**fax**  
**mailto**  
**url**  
**GAW function**  
**contact for**

### Stations registered for Algeria (total: 3)



Station	GAWID	Station Type	Operating Status
<b>I - Africa</b>			
 Assekrem	ASK	Global	full operation
 Columb-Béchar	BEC	Regional	closed
 Tamanrasset	TAM	Global	full operation

# EECCA Action Plan

Adopted in 2005, revised after “Saltsjöbaden 3” Workshop in 2007

**Parties and Convention Bodies must prioritize its implementation!**

**Includes main aims:**

- Raise political profile of CLRTAP activities
- Encourage ratification of Protocols (EMEP, HM, POPs, Gothenburg)
- Increase cooperation and exchange of information through expanding the modelling and monitoring activities
- Support EECCA involvement in activities of the Convention

**Identifies related actions and relevant actors (e.g.)**

- Relax Protocol obligations within their revision (WGSR, EB)
- Expand EMEP monitoring network (EECCA, EMEP, donors)
- Make more material available in Russian (EB, secretariat, EECCA)
- Organize joint activities/workshops for EECCA countries

# New EMEP sites in the EECCA region

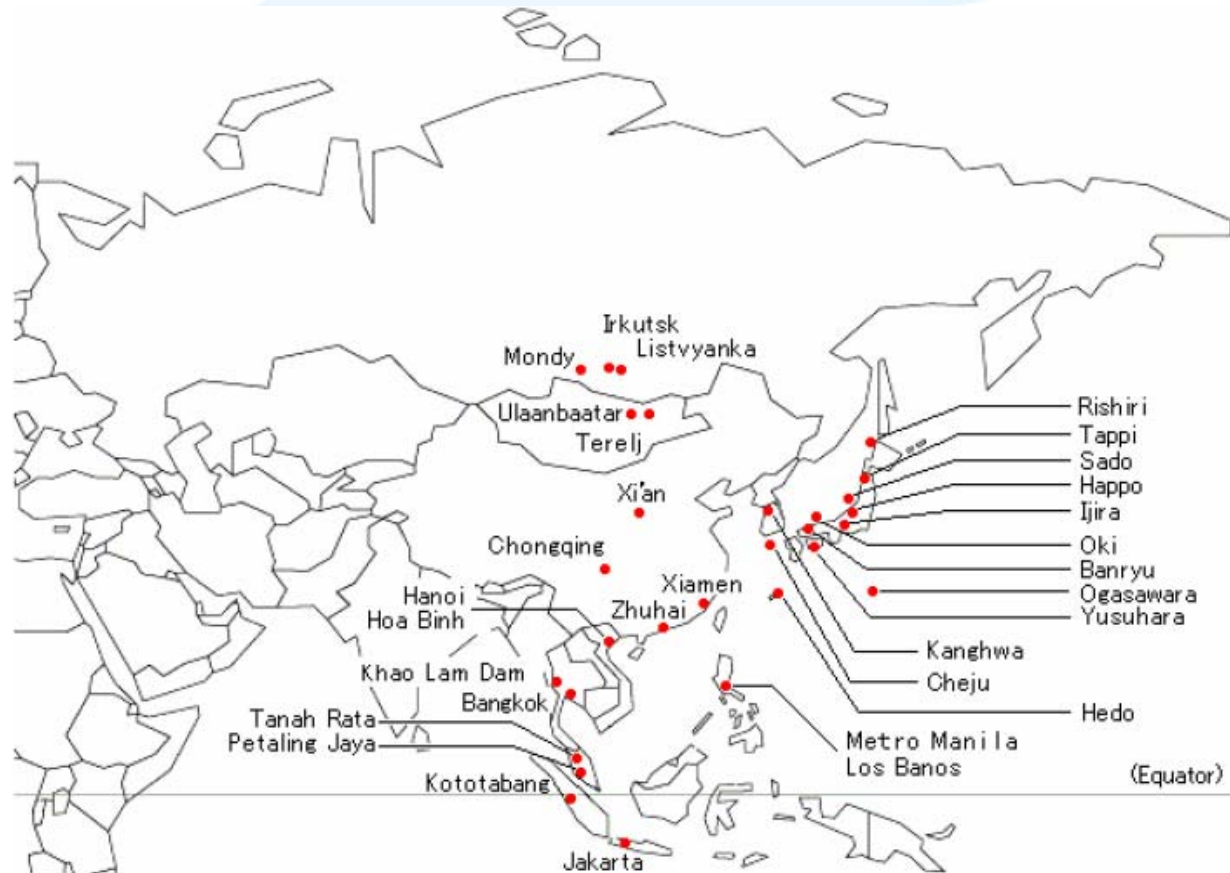
Support from:

CAPACT <http://www.unece.org/ie/capact>

Norwegian Ministry of Foreign Affairs



# EANET taking advantage of CLRTAP



# North African sites in EMEP?

Countries could consider becoming a Party to CLRTAP

-> action plan in relation to additional CLRTAP Protocols

EMEP centres support in relation to monitoring sites, emission inventories etc  
or

North Africa develops its own regional programme

Can take benefit of experience under the CLRTAP

Share their information with CLRTAP (through HTAP)

or

both



In any case, the CLRTAP secretariat and EMEP centres support is available!