



Royal Netherlands
Meteorological Institute
*Ministry of Infrastructure and the
Environment*

GlobEmission Web Portal

Bas Mijling

A decorative graphic on the right side of the slide. It features a series of horizontal lines in shades of blue and grey. On the right, there are silhouettes of two people, one taller and one shorter, appearing to be in conversation or looking at something together. The lines extend from the left towards these silhouettes.

User Consultation Meeting, Doha, Qatar, 24-25 Nov 2015

GLOBEMISSION



Welcome at the home page of the GlobEmission project



Emissions of pollutants to the ambient environment are at the origin of atmospheric pollution issues. Emission inventories provide important information on magnitude, type of activity, time evolution and the spatial coverage of the estimated emissions. These inventories are developed for use in scientific applications as input in urban, regional, continental or global scale models, and for use by policy makers in order to evaluate progress towards emission abatement measures, and decide on future strategies.

Within the GlobEmission project (part of [Data User Element programme](#) of ESA) emission estimates will be developed from satellite observations of air constituents. The main advantage of these emission estimates are the spatial consistency, high temporal resolution and the rapid availability of these estimates to the user. Based on the requirements of several dedicated users the following services have been developed:

- ▶ Global biogenic emissions of isoprene
- ▶ Global anthropogenic VOC emissions
- ▶ Regional emissions of NO_x and SO₂ (China, South Africa, India, Middle East)
- ▶ European emission estimates of NO_x, SO₂ and CO
- ▶ Regional aerosol-related emissions
- ▶ Global emissions related to forest-fires



The GlobEmission project started at October 2011. Currently, it is in the second phase and will continue at least till April 2016. GlobEmission is a consortium of [KNMI](#) (The Netherlands), [BIRA-IASB](#) (Belgium), [FMI](#) (Finland), [TNO](#) (The Netherlands), and [VITO](#) (Belgium).

Emission Data

News

The 4th GlobEmission User Workshop will be held in Doha, Qatar, on 24-25 November 2015. [Register now!](#)

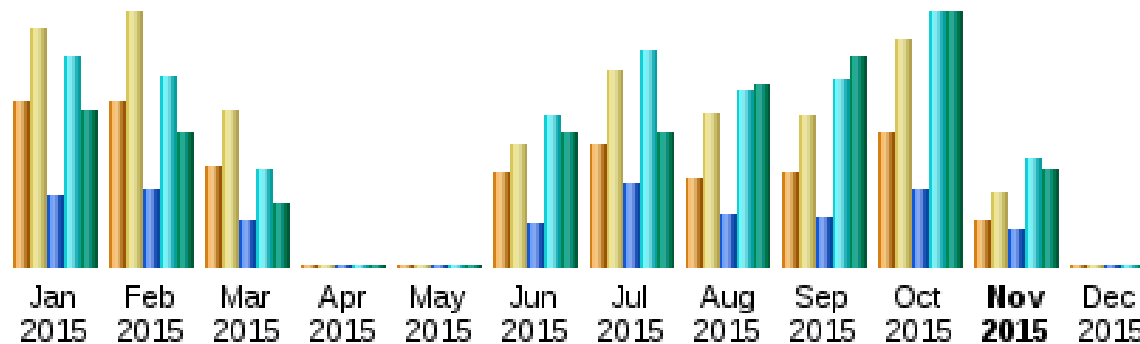
[High resolution](#) NO_x emission maps added for South Africa. They are downscaled from satellite based regional emission estimates.

New [emission data sets](#) added: anthropogenic isoprene emissions and NMVOC fire emissions from the OMI instrument; NO_x emissions in the Middle East.

The GlobEmission project is extended and will at least continue till April 2016.

Site Statistics (1/2)

Monthly history



Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jan 2015	476	691	3222	9306	332.44 MB
Feb 2015	480	735	3367	8406	279.79 MB
Mar 2015	292	451	1997	4348	133.11 MB
Apr 2015	0	0	0	0	0
May 2015	0	0	0	0	0
Jun 2015	273	352	1875	6647	280.20 MB
Jul 2015	356	571	3646	9487	282.98 MB
Aug 2015	256	445	2308	7830	381.19 MB
Sep 2015	270	434	2195	8274	443.47 MB
Oct 2015	388	658	3464	11211	535.02 MB
Nov 2015	133	214	1710	4858	203.99 MB
Dec 2015	0	0	0	0	0
Total	2924	4551	23784	70367	2.80 GB

Site Statistics (2/2)

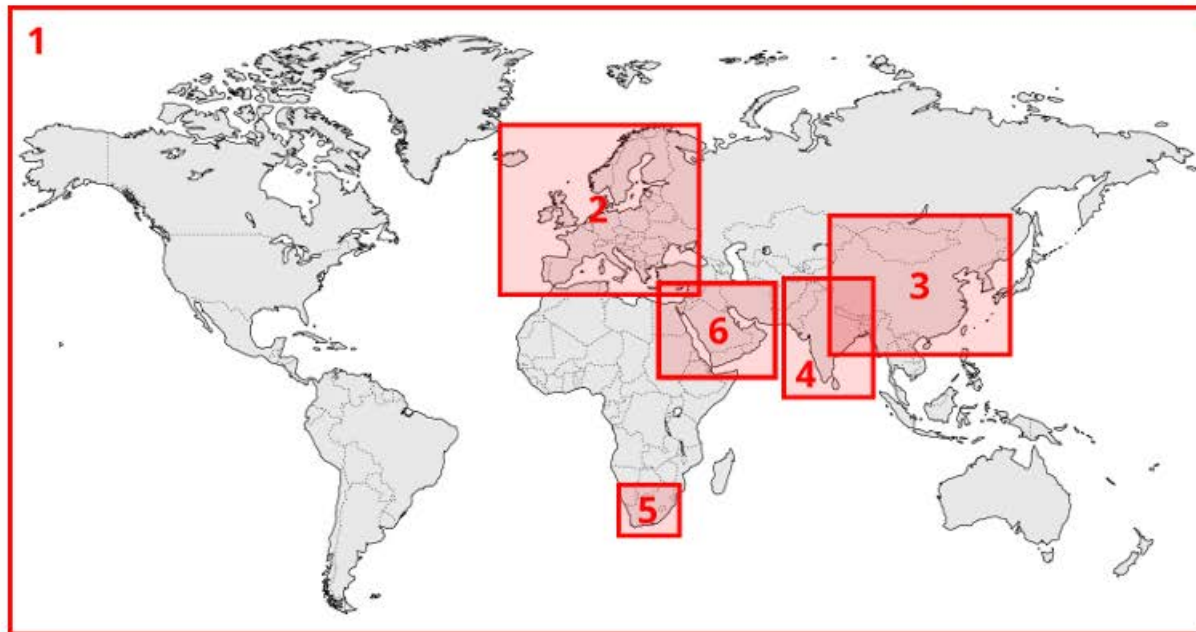
Countries						
	Countries		Pages	Hits	Bandwidth	
?	Unknown	unknown	765	2386	96.85 MB	
	Belgium	be	255	590	40.83 MB	
	Great Britain	gb	192	602	16.84 MB	
	China	cn	172	572	17.05 MB	
	South Africa	za	158	272	12.18 MB	
	Germany	de	134	492	10.70 MB	
	United States	us	127	552	25.88 MB	
	Netherlands	nl	105	786	16.92 MB	
	Egypt	eg	71	168	5.38 MB	
	Russian Federation	ru	61	149	3.29 MB	
	Italy	it	55	89	25.45 MB	
	Japan	jp	50	76	88.39 MB	
	Austria	at	47	159	3.93 MB	
	Spain	es	26	199	2.72 MB	
	India	in	18	38	2.58 MB	
	Qatar	qa	11	101	2.04 MB	
	Norway	no	10	92	1.92 MB	
	Canada	ca	6	27	1.31 MB	

Current data products

Institute	Region	Emission	Instrument	Period	Remarks
FMI	Europe	PM2.5	MODIS	2008	
	Europe	PM10	MODIS	2008	
	Global	Wildfire	MODIS	2001-2010	
TNO	Europe	NOx trend	OMI	2005-2010	
BIRA	Asia	Anthropogenic VOC	OMI	2005-2013	New, larger domain
	Asia	Anthropogenic VOC	GOME-2	2007-2011	
	Asia	CO from agricultural fires	OMI	2005-2012	New
	Global	Biomass burning (22 species)	OMI	2005-2013	New
	Global	Biomass burning (22 species)	GOME-2	2007-2011	
	Global	Biogenic isoprene	OMI	2005-2013	New
	Global	Biogenic isoprene	GOME-2	2007-2011	
KNMI	East Asia	NOx	OMI	2007-2013	Improved and extended
	East Asia	NOx	GOME-2	2007-2013	Improved and extended
	South Africa	NOx	OMI	2009-2010	
	India	NOx	OMI	2007-2008	
	Middle East	NOx	OMI	2010-2011	New, to be extended to 2007-2014
VITO	South Africa	High resolution NOx	(OMI)	2009-2011	
	Middle East	High resolution NOx	(OMI)	2010-2011	New

Select emission data area:

[View all datasets](#)



World
[fire-related emissions](#),
[NMVOC](#), [biogenic isoprene](#)



Europe
[NO_x](#), [PM2.5](#), [PM10](#)



East Asia
[NO_x](#), [VOC](#)



India
[NO_x](#)



South Africa
[NO_x](#)



Middle East
[NO_x](#)

Note: The quality of the data products is currently being assessed. Users should use this data with caution!

Demonstration Web Mapping Service

- Overview all GlobEmission datasets

Adding layers

- Middle East layers
- Hires Qatar layer

Export to Google Earth

www.globemission.eu



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