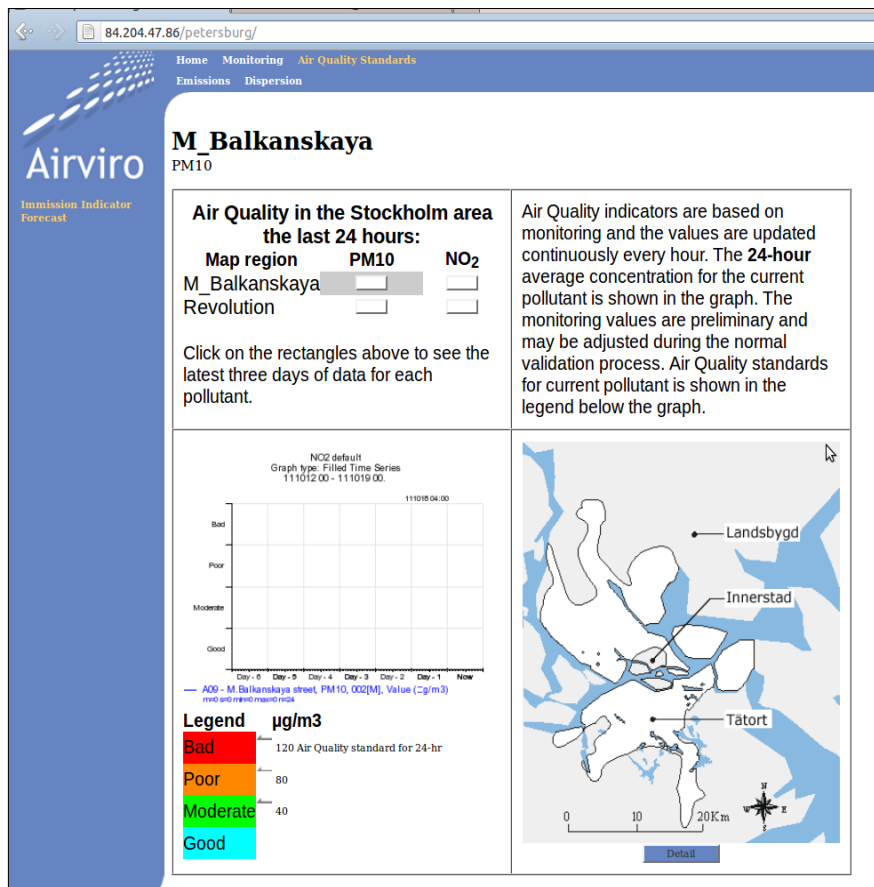




## Airviro User's Reference

## Working with APUB Module



How to display environmental data on the web?

## Working with APUB Module

### How to display environmental data on the web?

#### Amendments

<b>Version</b>	<b>Date changed</b>	<b>Cause of change</b>	<b>Signature</b>
3.21	May 2011	New module	GS
3.21	November 2011	Release	GS

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## 9.1. Introduction

The APUB Module allows to Airviro users to display environmental data on the web, showing real time or historical data for a selected time period.

The information used in this module is collected from other Airviro modules (such as EDB, Dispersion, Indico Presentation, Administration and Validation).

Meteorological and air quality data, as well as emissions and dispersion calculations can be shown as reports or interactive graphs.

For this, APUB provides a configurable framework that may include a number of web objects used to display the data.

The framework has a top panel and a left column of clickable menus in a web browser.

When a menu on the top panel is clicked, the left panel will show the sub options for the selected top menu.

For instance:

Top Menu Bar	Left Menu Bar
Home	Staff Link to website
Monitoring	Meteorology data Ambient data Map Values on Map
Emissions	EDB
Dispersion	Dispersion
Air Quality	Immission indicator forecast

These menus can be configured in the file: *apub.<sitename>.rf*

## 9.2. Basic Configuration

Many APUB modules could be installed in the same server, therefore each one of these APUB installations must have a unique name and these installations are referred to as “sites”, each one with its corresponding “sitename”.

The basic configuration file for a site is located in  
*/usr/airviro/rsrc/ apub.<sitename>.cfg*

For the examples used in this document the site name is “petersburg”.

For instance, the content of */usr/airviro/rsrc/apub.petersburg.cfg* is:

```
AVDBNAME=newpeter
DBAS_PATH=${AVPATH}data/${AVDBNAME}/
DOCPATH=/var/www/html/
HTMLPATH=/petersburg/
CGIPATH=/cgi-bin/petersburg
FULLHTMLPATH=/var/www/html/petersburg/
PATHTEMP=/usr/airviro/tmp/
AVLANG=eng ; export AVLANG
PATHTEMPDOCFULL=/var/www/html/iairviro/temp
PATHTEMPDOC=/iairviro/temp
```

That is,

## DESCRIPTION

---

AVDBNAME	Name of the Airviro domain to be used.
DBAS_PATH	Absolute path to the domain.
DOCPATH	Absolute path to the web server root.
HTMLPATH	The name of the subdirectory under the web server root where the html files for the site are stored .
CGIPATH	Path relative to the web server root where cgi scripts for the site are stored.
FULLHTMLPATH	Absolute path to the site's html files.
PATHTEMP	Absolute path to temporary files.
AVLANG	Available languages: eng (english), esp (spanish),...
PATHTEMPDOCFULL	The absolute path to temporary files used for the web pages.
PATHTEMPDOC	Path relative to web server root where temporary files used for web pages are stored.

Temporary directories should normally not be changed.

In general for each new installation (site) you should:

- ^ Change the word “petersburg” (sitename) with the name of the new site
- ^ Change AVDBNAME to the domain the new site should use.

## 9.3. The framework

The web objects included in APUB module can be called from the framework provided or from outside (any user-built web application).

As it was stated before, the top and left menu bars of the framework are configured in the file:

- *apub.<sitename>.rf*

Let us see this file in detail now:

The first part contains some general settings:

- Date format : dd/mm/yyyy (UK) or yymmdd (UTH).  
dateformat: UK
- Up to three customer clickable logos can be shown as gif pictures and a link to another website can be attached to them  
logo.top.gif: /petersburg/images/airlogo\_apub\_top.gif  
logo.top.link: <http://slb.nu/slbairweb>  
  
logo.bot.gif: /petersburg/images/airlogo\_apub\_bot.gif  
logo.bot.link: <http://www.smhi.se/>  
  
logo2.bot.gif: /petersburg/images/trans.gif  
logo2.bot.link: <http://www.google.se/>
- Language selection: For sites available in two languages  
flag.gif: /eslb/sweden\_flag.gif  
flag.link: <http://85.24.165.10/petersburg/>

*The second part* contains the configuration of the menus themselves:

For the first level or top menu bar:

Web html pages are found in a directory under /var/www/html/<sitename>/

- Example: “Home Monitoring” data is saved in *var/www/petersburg/Monitoring*

*This part of the menu should be specified in three lines:*

```
module.Monitoring.DisplayName: Monitoring
module.Monitoring.MainPage: Monitoring/Main.htm
module.Monitoring.Row: 0
```

DisplayName is the text for this menu that will appear in the top bar in the web browser  
MainPage is the location and name of the main page for this menu  
Row indicate if the menu will be displayed in the first row (row=0), the second(row=1), etc

- For second level or left menu bar

Web objects are found in `var/www/cgi-bin/<sitename>/`

Example:

Here, for the top menu “Monitoring” configured above we have four left menus defined, each one calls a different object, or an html page as previously seen for top menus:

```
Monitoring.start:1
Monitoring.1.DisplayName: Meteorology data
Monitoring.1.MainPage: apub.htmlindico.cgi page=pageFrame
header=Meteorology macro=TEMP rsrc=Monitoring.1.MainPage
macropath=www_met
Monitoring.1.Options: type=cgi topcurve=off window=default
```

```
Monitoring.2.DisplayName: Ambient data
Monitoring.2.MainPage: apub.htmlindico.cgi page=pageFrame
header=Air_Quality macro=femman_NOx rsrc=Monitoring.2.MainPage
macropath=www_amb topcurve=n
Monitoring.2.Options: type=cgi topcurve=on
```

```
Monitoring.3.DisplayName: Map
Monitoring.3.MainPage: apub.stationmap.cgi page=ShowMap
areaid=OA gsize=450x370 stnshow=false stngroup=0x80
backgroundimg=images/blank.gif mappostop=69 mapposleft=267
infocgi= macropath=stn infoframe=_blank
rsrc=Monitoring.3.MainPage
lefthtmlpage=/petersburg/iframestest.htm ins=map1
Monitoring.3.Options: type=cgi
```

```
Monitoring.4.DisplayName: Values on Map
Monitoring.4.MainPage: apub.stncolmap.cgi page=ShowMap areaid=OA
gsize=450x370 stnshow=false stngroup=0x80
backgroundimg=images/blank.gif mappostop=69 mapposleft=267
infocgi= macropath=stn infoframe=_blank
rsrc=Monitoring.4.MainPage lefthtmlpage= apptag=colorstn
showtag=NO2 nrdec=1
Monitoring.4.Options: type=cgi
```

In this case, ‘Options’ are additional parameters that tells the framework what is called and how to show it

Examples of different values for the options are:

```
# window = default, _blank , _self, _top , ...  
# type= cgi , htm, url  
# topcurve= on, off
```

The available options for each object are explained later on in this documentation.

**Appendix A1.2** shows an example of framework (*apub.petersburg.rf*).

## 9.4. Available Objects

Objects available in APUB are configured in the following files:

- *apub.<sitename>.lbl.cfg* specifies the texts of the legends and labels displayed in the objects.
- *apub.<sitename>.<instance>.rf*: combined objects configuration. Instance: colors, restrictions, maps...

For instance, for Petersburg’s site ( see Appendix A1.2):

- *apub.petersburg.lbl.cfg*: labels for all the APUB web objects. Example: *lblStation*, *lblMap* and *lblPeriod*.
- *apub.petersburg.hour.rf* : configuration for Combined page: table region, columns, rows, cells and comments. In this case, the instance for this Combined object is “hour”, many other instances of this module can be defined for the same site.
- *apub.petersburg.colmap2.colorstn.rf*: values for the option lists (combo boxes). Example: substances and years. It use the Indico Module. In this case, this file is defined for Values on Map Object.
- *apub.petersburg.stnmap.map1.rf*: date restrictions for the graphs (StnMap page). Can define different levels, example: *apub.petersburg.stnmap.map2.rf*  
In this case, this file is defined for Map Object.



Many other instances of this module can be defined for the same site:

*apub.petersburg.stnmap.<instance>.rf.*

All these files must be located in */usr/airviro/rsrc/*

Six predefined web objects are available in the APUB module. These objects are:

### 9.4.1. Indico Web Object (IndicoWeb)

With this object time series graphs can be added to the web page. The user will be able to select the time period and a graph from a list of pre-defined graphs. *Figure 9.3.1*

The graphs can show meteorology data (i.e.: wind and temperature) or ambient data (pollutants). They must be previously saved as an Indico macro using the Indico Presentation Module. This object also allows the user to download data from time series in *pdf*, *text* and *excel* format.

Parameters accepted by the script:

pageFrame	Frame (left and right pane).
pageLeft	Left pane containing the list of macros.
pageRight	Right pane containing the graph.
macropath	Path relative to the macro root.
stnkey	Specifies <i>stnkey</i> which acts as a sub directory to <i>&lt;macropath&gt;</i> .
macro	The name of the macro to show as default.
header	The header (title) of the page.
from	Start date for graph.
to	Stop date for graph.
limgfrom	Start date limit for graph.
limgto	Stop date limit for graph. Is the date limit for downloading data
limdfrom	Start date limit for data as text. Is the date limit for downloading data
limdto	Stop date limit for data as text. Is the date limit for downloading data
rsrc	(Self) reference to <i>apub.&lt;sitename&gt;.rf</i> entry to control any restrictions set on which data set should be possible to view.
gsize	Height and width of generated raster picture (graph).
domain	Domain.
Topcurve	Whether to show the curve at the top left corner.
stninfoLink	An url that points out a cgi-script that takes a station key as argument. The cgi should then provide an html-page with a more detailed description of the station.

If <stnkey> is empty or not set, list macros from the directory \$DBAS\_PATH/indico/<macropath>.

If <stnkey> is set, list macros from \$DBAS\_PATH/indico/<macropath>/<stnkey> and macros starting with "default\_" in the directory \$DBAS\_PATH/indico/<macropath>. The default macros will then be modified so that the time series they contain will fit the selected station key.

format date for macro name : xxx\_n\_datefmt1\_datefmt2\_restofname.ic

ie : xxx\_n\_%y%m%-7d\_%y%m%d\_Tian\_NOX.ic

Macros starting with name:

xxx\_f\_ is a fix period, i.e. the period specified in the macro, but moved so that it ends at current time.

xxx\_n\_ is a fix period where from and to time are formatted using the formats specified in the name (xxx\_n\_datefmt1\_datefmt2\_restofname) and anchored at current time.

xxx\_b\_ is same as xxx\_n\_ but anchored at the begin time.

For the syntax of the date formats see the Airviro manual page *mkstrftime* and the linux manual page *date*.

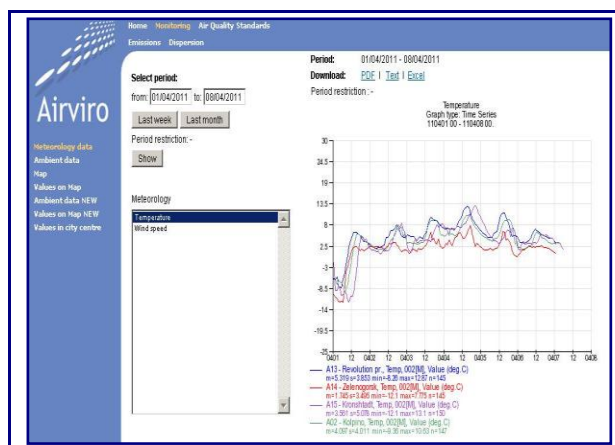


Figure 9.3.1

An example of url call to Indico Web Object (IndicoWeb) is:

```
url: /cgi-  
bin/petersburg/apub.htmlindico.cgi?page=pageFrame&header=Meteorology&  
macro=TEMP&rsrc=Monitoring.1.MainPage&macropath=www_met&  
target=frRight
```

If one is calling this object from outside the framework, it should normally be inserted in an Iframe.

Configuration files required by this object are:

```
apub.petersburg.cfg  
apub.petersburg.lbl.cfg
```

### 9.4.2. Map Object (StationWeb)

Allow to display stations on the map. It is possible to select stations on the map and display the information about this station. Example: *Figure 9.3.2*

Parameters accepted by the script:

page	Function that send html page with the map
areaid	AREAID of the map as in modell.par
macropath	Path to macros
gsize	Graph or map size (width x height)
mapcoord	MAP COORDS for zooming
stngroup	Hex number indicating the Station Group
stnshow	Whether to show the station names or not
backgroundImg	File name to be shown as background
mappostop	MAP Position TOP in pixels
infocgi	User defined cgi script to show station info
lefthtmlpage	LEFT HTML PAGE with info to be shown to the left of the map
rsrc	RSRC NAME as in config file
ins	Instance



Figure 9.3.2

An example of url call to Map Object (StationWeb) is:

```
url:/cgi-bin/petersburg/apub.html.cgi?page=pageUserMainRight&userpage=/cgi-bin/petersburg/apub.stationmap.cgi?page=ShowMap&areaid=OA&gsize=450x370&stnshow=false&stngroup=0x80&backgroundimg=images/blank.gif&mappostop=69&mapposleft=267&infocgi=&macropath=stn&infoframe=_blank&rsr c=Monitoring.3.MainPage&lefthtmlpage=/petersburg/iframeitest.htm&ins=map1& target=frRight
```

If one is calling this object from outside the framework, it should normally be inserted in an Iframe.

Configuration files required by this object are:

```
apub.petersburg.cfg
apub.petersburg.lbl.cfg
apub.petersburg.stnmap.map1.rf
```

### 9.4.3. Values on map Object (StnColWeb2)

Display stations on a map. The stations are colour referenced according to levels and colours defined in an Indico macro. With the “mouse over” functionality the latest available value is displayed. For example it is possible to display an Air Pollution Index (hazardous, unhealthy, poor, moderate and good). Example: *Figure 9.3.3*

Configuration file *apub.<site>.stncolmap2.<apptag>.rf* contains:

- List of years to show
- Parameter key
- Data for coloured dots are fetched from macros in:
  1. \$DBAS\_PATH/indico/<apptag>/<param>/<stnkey>.ic
  2. \$DBAS\_PATH/indico/<apptag>/<param>/default.ic

If a station is clicked, the IndicoWeb2 module is activated with the macros in the directory pointed out by <macropath>.

Parameters accepted by the script:

ShowMap	Show map with colour coded stations.
areaid	Map area id.
macropath	Path to the macro root (when showing graphs).
gsize	Raster map dimension (width x height).
mapcoord	Map coordinates (0,0,0,0 means whole map).
stngroup	Filter out stations belonging to this station group only (bitmask)
stnshow	If "true", show name (label) for each station.
backgroundimg	Path to image to use as background.
mappostop	Y position for top of map.
mapposleft	X position for left of map.
infoframe	Path to info page to show left of map.
infocgi	Cgi-script to call when detailed information about a station is required. Station key is given as argument and a complete html page is expected back.
lefthtmlpage	Path to info page to show left of map.
rsrc	Reference to apub.<sitename>.rf entry to validate restrictions.
apptag	Application tag name for this StationWeb instance. This is the same as the instance name.
nrdec	Number of decimals for values.
maxage	How many seconds to allow before declaring data missing.

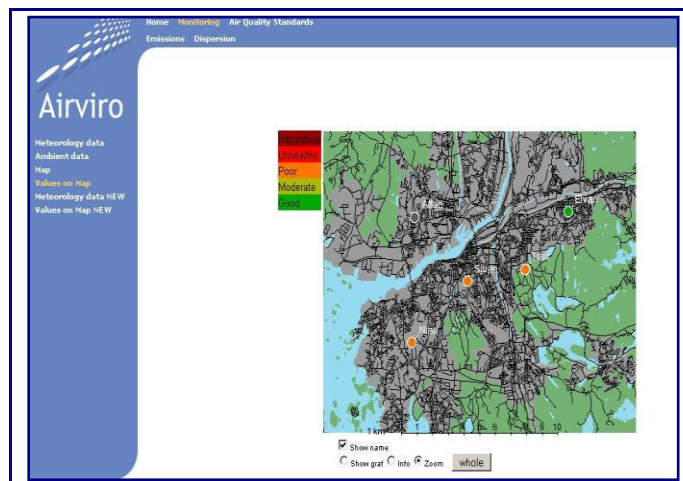


Figure 9.3.3

An example of url call to Values on map object (StnColWeb2) is:

```
url: /cgi-
bin/petersburg/apub.html.cgi?page=pageUserMainRight&userpage=/cgi-
bin/petersburg/apub.stncolmap.cgi?page=ShowMap&areaid=OA&gsize=450x3
70&stnshow=false&stngroup=0x80&backgroundimg=images/blank.gif&mappo
stop=69&mapposleft=267&infocgi=&macropath=stn&infoframe=_blank&rsrc
=Monitoring.4.MainPage&lefthtmlpage=&apptag=colorstn&showtag=NO2&n
rdec=1&, target=frRight
```

If one is calling this object from outside the framework, it should normally be inserted in an Iframe.

Configuration files required by this object are:

```
apub.petersburg.cfg
apub.petersburg.lbl.cfg
apub.petersburg.colMap2.colorstn.rf
```

#### 9.4.4. Combined Object (CombinedWeb)

This object displays a combination of texts, graphs and maps. Several substances are shown in a matrix. Typically the matrix contains substances versus locations. In the

*Figure 9.3.4.* locations are M\_Balkanskaya and Revolution vs substance PM10. These are configured by the user in the corresponding configuration file. For instance:

```
! Table columns
substance.PM10.displayName: PM10
substance.NO2.displayName: NO<sub>2</sub>

! Table rows
region.Balkanskaya.displayName: M_Balkanskaya
region.Revolution.displayName: Revolution
```

The colour of the item in the matrix is coloured referenced according to levels and colours in the Indico macro and they are shown in a legend, beneath the matrix, the latest selected item in the matrix is shown as a coloured time series graph, typically the time series, for example, for the latest three days.

For each cell must be defined the texts and location of the predefined pictures to be shown when that cell is selected. For instance:

```
Balkanskaya.NO2.comment: Air Quality indicators are based on
monitoring and the values are updated continuously every hour. The
<b>hourly</b> average concentration for the current pollutant is shown
in the graph. The monitoring values are preliminary and may be
adjusted during the normal validation process. Air Quality standards
for current pollutant is shown in the legend below the graph.
Balkanskaya.NO2.graph.macro: stds/mbalkanskaya_no2_hour.ic
Balkanskaya.NO2.dmap: rtd/STHLMCITY/NO2.gif
```

To the right of the graph a map is shown. The location of the item selected in the matrix is highlighted on the map in a colour that is the same as the item in the matrix. Above the map a predefined text can be added.

The path for the maps is FULLHTMLPATH/<mapdir> where FULLHTMLPATH was already explained above and mapdir is set in the config file. See Appendix

I.e: mapdir: norm2

These maps stored in <mapdir> should be named according the number of levels defined in the macro. The number goes from 0 to n and each region in the matrix has its set of files: <region>\_<level 0-n>.gif .

I.e.: balkanskaya\_0.gif

For each region in the matrix the number of maps should be equal to the number of emission levels defined in the macro (shown as a colored bar) plus one.

Thus, if the macro has 4 emission levels, then the number of maps for each region should be 5. In the present example, we have 2 regions and 5 levels (*Figure 9.3.4*), so the maps must be named:

Balkanskaya\_0.gif Balkanskaya\_3.gif  
 Balkanskaya\_1.gif Balkanskaya\_4.gif  
 Balkanskaya\_2.gif Balkanskaya\_5.gif

Revolution\_0.gif Revolution\_3.gif  
 Revolution\_1.gif Revolution\_4.gif  
 Revolution\_2.gif Revolution\_5.gif

### Parameters accepted by the script:

page	function that send html page with the map
gsize	gif size
ins	instance of pageComb
rsrc	RSRC NAME as in config file that has a reference to this cgi

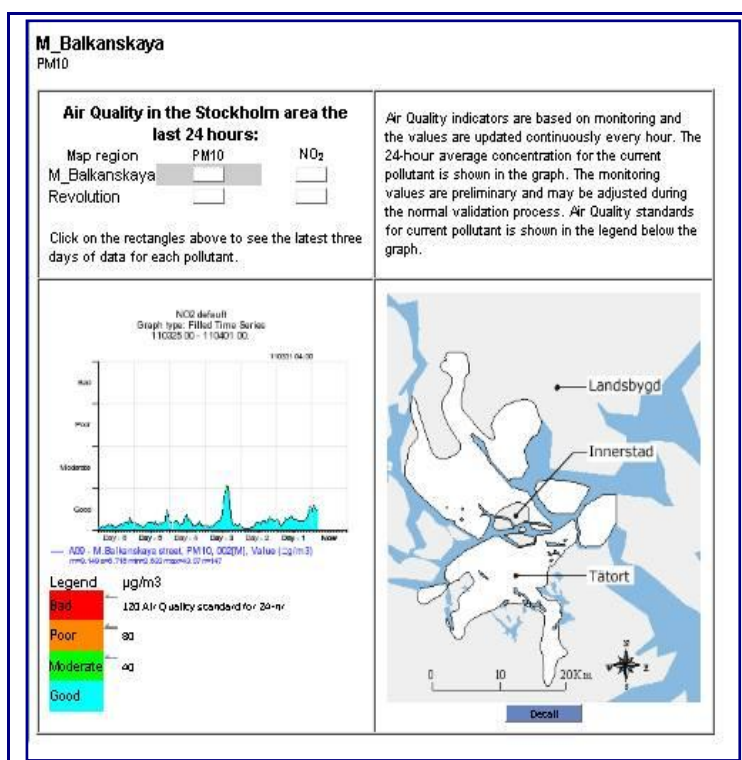


Figure 9.3.4.

Select to column and a row for the matrix and you see their graph. Example *Figure 9.3.4*: click on rectangles PM10 and M\_Balkanskaya, and you see the latest six days of data for PM10.



Click on **Detail** and you see other map with values on the map. You should see the legend for the interpretation these values on the map.

An example of url call to Combined object (CombinedWeb) is:

```
/cgi-bin/petersburg/apub.html.cgi?page=pageUserMainRight&userpage=/cgi-  
bin/petersburg/apub.combineweb.cgi?page=pageComb&ins=hour&  
target=frRight
```

If one is calling this object from outside the framework, it should normally be inserted in an Iframe.

Configuration files required by this object are:

```
apub.petersburg.cfg  
apub.petersburg.hour.rf
```

### 9.4.5. Emissions Object (EdbWeb)

This object can make an emission calculation from emission database macros. Macros are selectable and the emission result is shown on a map. The total emission is shown including measure units and different available formats for downloading the emission, including pdf, txt and excel.

Parameters accepted by the script:

pageFrame	Frame (left and right pane)
pageLeft	Left pane containing the list of macros.
pageRight	Right pane containing the map.
macro	The name of the macro to show.
header	The header (title) of the page.
macropath	Where to look for macros
gsize	Height and width of generated raster picture (map)
gcoord	Map coordinates (0,0,0,0 means whole map)
domain	Domain.
topcurve	Whether to show the curve at the top left corner.

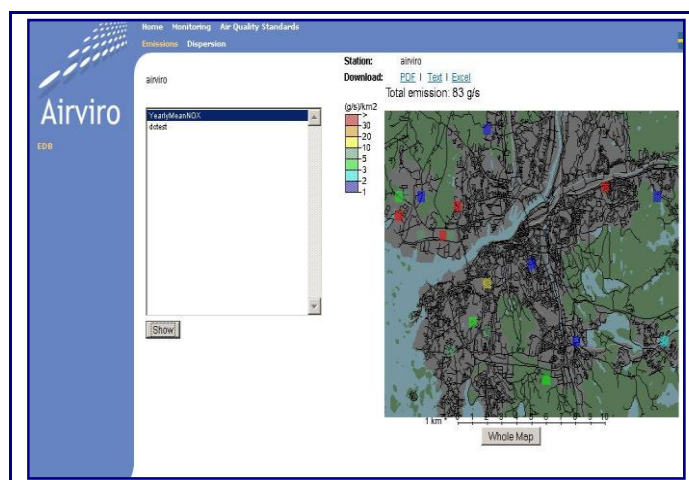


Figure 9.3.5.

An example of url call to Emissions object (EdbWeb) is:

```
url:/cgi-
bin/petersburg/apub.htmledb.cgi?page=pageFrame&header=airviro&macro=d
ctest&rsrc=Station.2.MainPage&, target=frRight
```

If one is calling this object from outside the framework, it should normally be inserted in an Iframe.

Configuration files required by this object are:

```
apub.petersburg.cfg
apub.petersburg.lbl.cfg
```

#### 9.4.6. Dispersion Objects (DispWeb)

This object can show a dispersion calculation result from a dispersion macro. Macros are selectable and the emission result is shown on a map.

Different formats are available for downloading the dispersion result, including pdf, txt and excel.

Parameters accepted by the script:

pageFrame	Frame (left and right pane)
pageLeft	Left pane containing the list of macros.
pageRight	Right pane containing the map.

macro	The name of the macro to show.
header	The header (title) of the page.
macropath	Where to look for macros
gsize	Height and width of generated raster picture (map)
gcoord	Map coordinates (0,0,0,0 means whole map)
domain	Domain.
topcurve	Whether to show the curve at the top left corner.

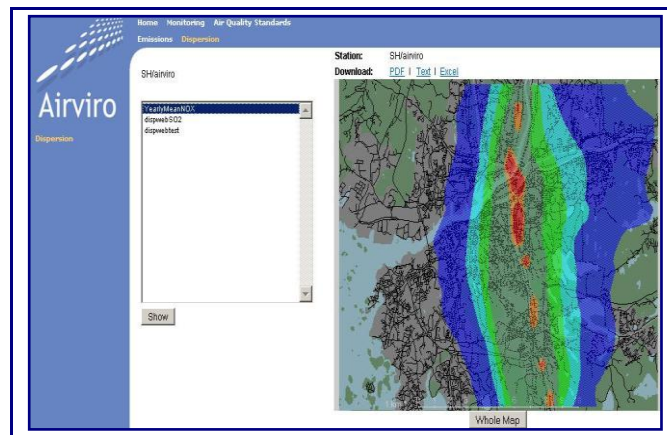


Figure 9.3.6.

An example of url call to Dispersion objects (DispWeb) is:

```
url: /cgi-
bin/petersburg/apub.htmldisp.cgi?page=pageFrame&header=SH/airvir
o&macro=dispwebtest&rsrc=Station.2.MainPage&, target=frRight
```

If one is calling this object from outside the framework, it should normally be inserted in an Iframe.

Configuration files required by this object are:

```
apub.petersburg.cfg
apub.petersburg.lbl.cfg
```

## APPENDIX A: Examples of configuration files

### A1.Introduction

This Appendix contains the configuration files for Petersburg. They were taken from:

<http://84.204.47.86/petersburg/>

Remember that all these files must be saved in *usr/airviro/rsrc/*

#### A1.1 *apub.petersburg.cfg*

```
AVDBNAME=newpeter
DBAS_PATH=${AVPATH}data/${AVDBNAME}/
DOCPATH=/var/www/html/
HTMLPATH=/petersburg/
CGIPATH=/cgi-bin/petersburg
FULLHTMLPATH=/var/www/html/petersburg/
PATHTEMP=/usr/airviro/tmp/
AVLANG=eng ; export AVLANG
PATHTEMPDOCFULL=/var/www/html/iairviro/temp
PATHTEMPDOC=/iairviro/temp
```

#### A1.2 *apub.petersburg.rf*

```
!
! Configuration of Airweb modules
!
! module key (ie Home, Met, Air) must match
! dir name where html is located

! date format UK = dd/mm/yyyy or UTH = yymmdd
#dateformat: UTH
dateformat: UK

logo.top.gif: /petersburg/images/airlogo_apub_top.gif
logo.top.link: http://slb.nu/slbairweb

logo.bot.gif: /petersburg/images/airlogo_apub_bot.gif
```

## Airviro version 3.21

---

```
logo.bot.link: http://www.smhi.se/

logo2.bot.gif: /petersburg/images/trans.gif
logo2.bot.link: http://www.google.se/

flag.gif: /eslb/sweden_flag.gif
flag.link: http://85.24.165.10/petersburg/
!flag.link: http://www.slb.nu/slbairweb/

menu.margin.left:10

#----- First level (top bar) -----

module.Home.DisplayName: Home
module.Home.MainPage: Home/Main.htm
module.Home.Row: 0

module.Monitoring.DisplayName: Monitoring
module.Monitoring.MainPage: Monitoring/Main.htm
module.Monitoring.Row: 0

module.Emissions.DisplayName: Emissions
module.Emissions.MainPage: Emissions/Main.htm
module.Emissions.Row: 1

module.Dispersion.DisplayName: Dispersion
module.Dispersion.MainPage: Dispersion/Main.htm
module.Dispersion.Row: 1

module.AirQuality.DisplayName: Air Quality Standards
module.AirQuality.MainPage: AirQuality/Main.htm
module.AirQuality.Row: 0

#----- Second level (left pane) -----

# options for "Options"
# window = default, _blank , _self, _top , ...
# type= cgi , htm, url
# topcurve= on, off

Home.1.DisplayName: Staff
Home.1.MainPage: Home/Staff.htm

Home.2.DisplayName: link to website
Home.2.MainPage: http://www.lanacion.com
Home.2.Options: type=url

Monitoring.start:1
Monitoring.1.DisplayName: Meteorology data
```

---

Monitoring.1.MainPage: apub.htmlindico.cgi page=pageFrame  
header=Meteorology macro=TEMP rsrc=Monitoring.1.MainPage  
macropath=www\_met  
Monitoring.1.Options: type=cgi topcurve=off window=default

Monitoring.2.DisplayName: Ambient data  
Monitoring.2.MainPage: apub.htmlindico.cgi page=pageFrame  
header=Air\_Quality macro=femman\_NOx rsrc=Monitoring.2.MainPage  
macropath=www\_amb topcurve=n  
Monitoring.2.Options: type=cgi topcurve=on

Monitoring.3.DisplayName: Map  
Monitoring.3.MainPage: apub.stationmap.cgi page=ShowMap areaid=OA  
gsize=450x370 stnshow=false stngroup=0x80  
backgroundimg=images/blank.gif mappostop=69 mapposleft=267 infocgi=  
macropath=stn infoframe=\_blank rsrc=Monitoring.3.MainPage  
lefthtmlpage=/petersburg/iframetest.htm ins=map1  
Monitoring.3.Options: type=cgi

Monitoring.4.DisplayName: Values on Map  
Monitoring.4.MainPage: apub.stncolmap.cgi page=ShowMap areaid=OA  
gsize=450x370 stnshow=false stngroup=0x80  
backgroundimg=images/blank.gif mappostop=69 mapposleft=267 infocgi=  
macropath=stn infoframe=\_blank rsrc=Monitoring.4.MainPage  
lefthtmlpage= apptag=colorstn showtag=NO2 nrdec=1  
Monitoring.4.Options: type=cgi

Monitoring.5.DisplayName: Ambient data NEW  
Monitoring.5.MainPage: apub.htmlindico2.cgi page=pageFrame  
header=Ambient macro=WindDir\_Attn rsrc=Monitoring.5.MainPage  
macropath=www\_amb stninfolink=infotest.htm  
Monitoring.5.Options: type=cgi topcurve=off window=default

Monitoring.6.DisplayName: Values on Map NEW  
Monitoring.6.MainPage: apub.stncolmap2.cgi page=ShowMap areaid=N2  
gsize=450x370 stnshow=true stngroup=0x01  
backgroundimg=images/blank.gif mappostop=69 mapposleft=267  
infocgi=apub.infostn2.cgi macropath=www\_amb infoframe=\_blank  
rsrc=Monitoring.6.MainPage lefthtmlpage= apptag=colorstn nrdec=1  
subs=0004 year=2008  
Monitoring.6.Options: type=cgi

Monitoring.7.DisplayName: Values in city centre  
Monitoring.7.MainPage: apub.stncolmap2.cgi page=ShowMap areaid=N1  
gsize=450x370 stnshow=true stngroup=0x02  
backgroundimg=images/blank.gif mappostop=69 mapposleft=267  
infocgi=apub.infostn2.cgi macropath=www\_amb infoframe=\_blank  
rsrc=Monitoring.7.MainPage lefthtmlpage= apptag=colorstn nrdec=1  
subs=0004 year=2008  
Monitoring.7.Options: type=cgi

Emissions.1.DisplayName: EDB

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Emissions.1.MainPage: apub.htmlledb.cgi page=pageFrame header=airviro  
macro=dctest rsrc=Station.2.MainPage  
Emissions.1.Options: type=cgi topcurve=off

Dispersion.1.DisplayName: Dispersion  
Dispersion.1.MainPage: apub.htmldisp.cgi page=pageFrame  
header=SH/airviro macro=dispwebtest rsrc=Station.2.MainPage  
Dispersion.1.Options: type=cgi topcurve=off

AirQuality.1.DisplayName: Immission Indicator Forecast  
AirQuality.1.MainPage: apub.combineweb.cgi page=pageComb ins=hour  
AirQuality.1.Options: type=cgi  
AirQuality.2.MainPage: /dc.htm  
AirQuality.2.Options: type=htm topcurve=off

### **A1.3 apub.petersburg.lbl.cfg**

lblSelecttimeperiod: Select period  
lblLastweek: Last week  
lblLastmonth: Last month  
lblfrom: from  
lblto: to  
lblShow: Show  
lblStation: Station  
lblPeriod: Period  
lblDateGraphLimit: Period restriction  
lblDateDownloadLimit: Period restriction  
lblDownload: Download  
lblPDF: PDF  
lblText: Text  
lblExcel: Excel

lblSelectStation: Stations  
lblZoomIn: Zoom  
lblWhole: whole  
lblShowGraph: Show graf  
lblShowStationInfo: Info  
lblShowStationOnMap: Show name

lblMap: Map  
lblSubs: Substance  
lblYear: Year

### **A1.4 apub.petersburg.stnmap.map1.rf**

!  
! Restrictions for StanMap page  
!





maxmissinghours: 2  
mapdir: norm2  
graph.geom: 320x256  
graph.hours: 168  
page.functions:

! Table columns  
substance.PM10.displayName: PM10  
substance.NO2.displayName: NO<sub>2</sub>

! Table rows  
region.Balkanskaya.displayName: M\_Balkanskaya  
region.Revolution.displayName: Revolution

! Table cells  
Balkanskaya.NO2.comment: Air Quality indicators are based on monitoring and the values are updated continuously every hour. The <b>hourly</b> average concentration for the current pollutant is shown in the graph. The monitoring values are preliminary and may be adjusted during the normal validation process. Air Quality standards for current pollutant is shown in the legend below the graph.  
Balkanskaya.NO2.graph.macro: stds/mbalkanskaya\_no2\_hour.ic  
Balkanskaya.NO2.dmap: rtd/STHLMCITY/NO2.gif

Revolution.NO2.comment: Air Quality indicators are based on monitoring and the values are updated continuously every hour. The <b>hourly</b> average concentration for the current pollutant is shown in the graph. The monitoring values are preliminary and may be adjusted during the normal validation process. Air Quality standards for current pollutant is shown in the legend below the graph.  
Revolution.NO2.graph.macro: stds/revolution\_no2\_hour.ic  
Revolution.NO2.dmap: images/nodetails.gif

! Stop NO2

! Start PM10

Balkanskaya.PM10.comment: Air Quality indicators are based on monitoring and the values are updated continuously every hour. The <b>24-hour</b> average concentration for the current pollutant is shown in the graph. The monitoring values are preliminary and may be adjusted during the normal validation process. Air Quality standards for current pollutant is shown in the legend below the graph.  
Balkanskaya.PM10.graph.macro: stds/mbalkanskaya\_pm10\_hour.ic  
Balkanskaya.PM10.dmap: rtd/STHLMCITY/PM10\_24.gif

Revolution.PM10.comment: Air Quality indicators are based on monitoring and the values are updated continuously every hour. The <b>24-hour</b> average concentration for the current pollutant is shown in the graph. The monitoring values are preliminary and may be adjusted during the normal validation process. Air Quality standards for current pollutant is shown in the legend below the graph.

Revolution.PM10.graph.macro: stds/revolution\_pm10\_hour.ic  
Revolution.PM10.dmap: images/nodetails.gif

! Stop PM10