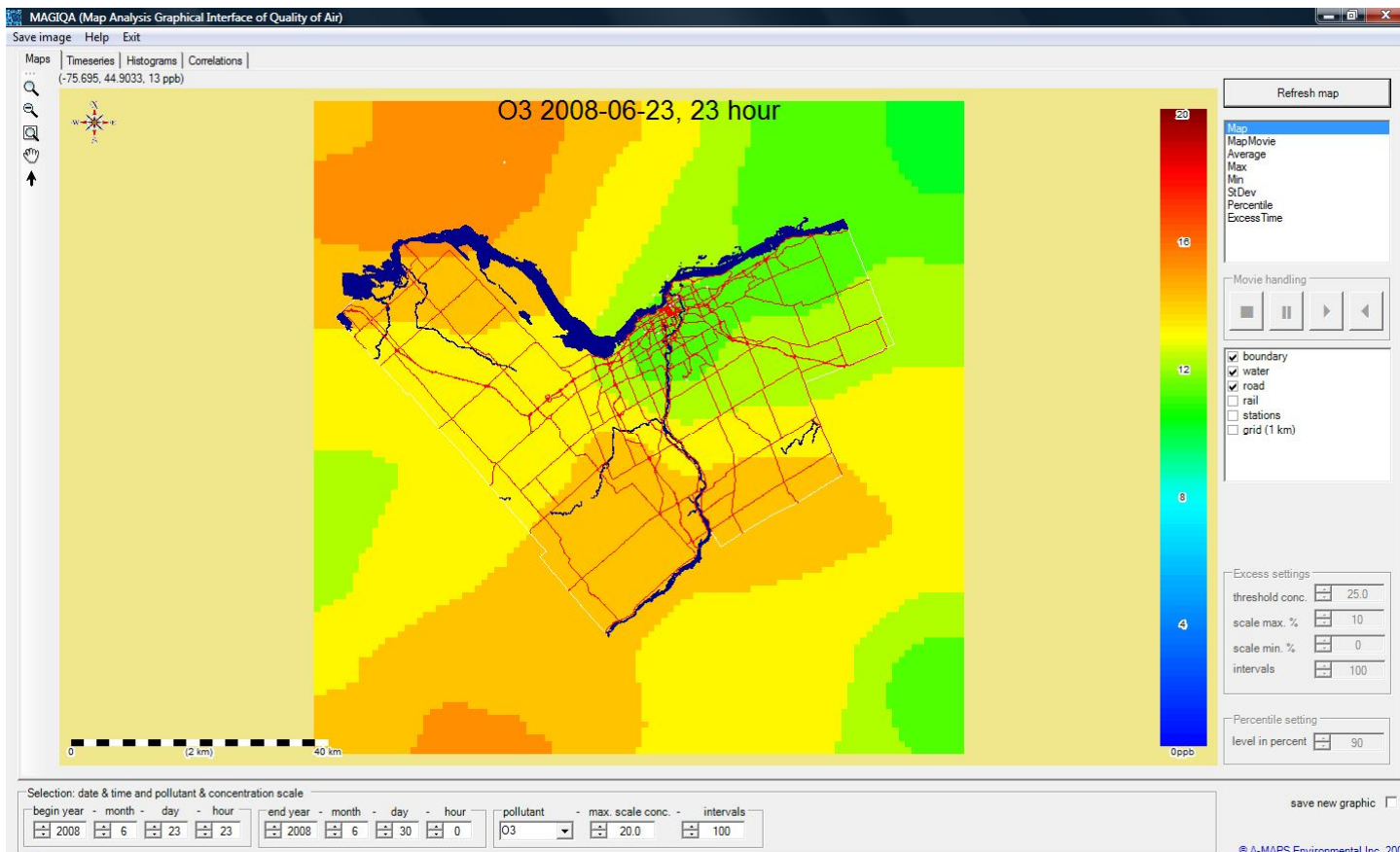


# A-MAPS Environmental Inc.



## Environmental Map Analysis Graphical Interface EMAGIN



A-MAPS Environmental is introducing a new Graphical User Interface enabling analyses and easy presentations of environmental data. The software includes conversion of any environmental records into GIS mapping formats. Specific time periods and areas can be selected on screen within the mapped region for processing and analyses. Moreover, series of imagery can be viewed as a "movie".

The analyses include standard statistical and custom designed functions such as averaging, max, min, standard deviation, percentiles and critical pollutant level exceedancies in mapping and other graphical formats, which can be then displayed, printed and saved.

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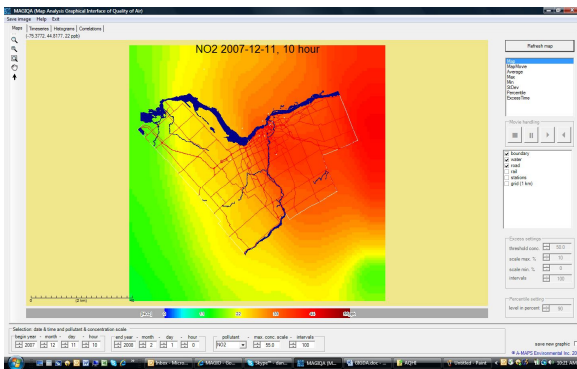
info@amapsenv.com

[www.amapsenv.com](http://www.amapsenv.com)

# A-MAPS Environmental Inc.



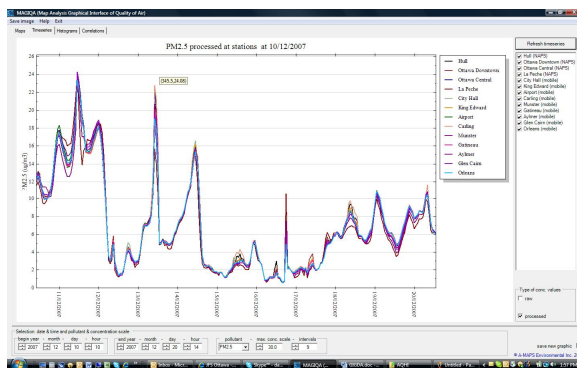
## Examples of EMAGIN applications: Air Quality Mapping in the National Capital Region



### Digital Mapping:

NO<sub>2</sub> CONCENTRATION LEVELS AT SELECTED DATE AND TIME

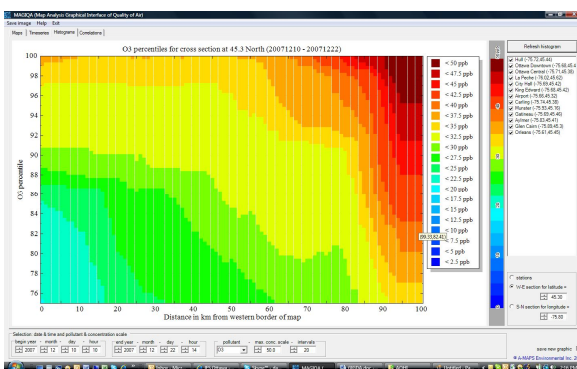
Maps of a selected area are generated through geospatial modelling applied to series of data collected at ground level sampling stations and by earth observation satellites.



### Time series:

PM<sub>2.5</sub> CONCENTRATION VARIATION DURING THE MONITORING PERIOD

Hourly maxima, minima and fluctuations of pollutant levels, measured and simulated, are presented for a selected period of time.



### Histograms:

O<sub>3</sub> CONCENTRATION LEVELS IN A WEST – EAST CROSS SECTION OF THE NATIONAL CAPITAL REGION

Percentile pollutant distributions at selected sampling sites are displayed for a selected time period.

Spatial correlations											Pollutant correlations										
	NO2	PM2.5	PM10	SO2	CO	O3	NO	NOx	PM10	PM2.5	NO2	PM2.5	PM10	SO2	CO	O3	NO	NOx	PM10	PM2.5	
Observed	1.00	0.78	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99
Observed	0.78	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00	0.85	0.86	0.87
Observed	0.81	0.85	1.00	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00	0.85	0.86	0.87	0.88	0.89
Observed	0.82	0.86	0.88	1.00	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.83	0.87	0.89	0.91	1.00	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.84	0.88	0.90	0.92	0.92	1.00	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.85	0.89	0.91	0.93	0.93	0.93	1.00	0.94	0.95	0.96	0.97	0.98	0.99	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.86	0.90	0.92	0.94	0.94	0.94	0.94	1.00	0.95	0.96	0.97	0.98	0.99	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.87	0.91	0.93	0.95	0.95	0.95	0.95	0.95	1.00	0.96	0.97	0.98	0.99	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.88	0.92	0.94	0.96	0.96	0.96	0.96	0.96	0.96	1.00	0.97	0.98	0.99	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.89	0.93	0.95	0.97	0.97	0.97	0.97	0.97	0.97	0.97	1.00	0.98	0.99	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.90	0.94	0.96	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	1.00	0.99	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.91	0.95	0.97	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.00	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.92	0.96	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.93	0.97	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.94	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.95	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.96	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.97	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91
Observed	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.85	0.86	0.87	0.88	0.89	0.90	0.91

### Correlations:

CORRELATION MATRICES OF GEOSPATIAL AND ENVIRONMENTAL PARAMETERS

Correlation coefficients regarding each sampling site and each individual pollutant are calculated and presented in table formats.