



A System for Integrated Environmental
Information in Urban areas is co-funded by the European Union

SIRIUS

A System for Integrated
Environmental Information
in Urban areas

D3.3 EMS Manual



A System for Integrated Environmental
Information in Urban areas is co-funded
By the European Union

<https://lifesirius.eu/>

Table of contents

I Accessing the platform	4
II Features & Navigation	
a. Main Dashboard	5
b. Understanding Air Quality Data	Error! Bookmark not defined.
c. Viewing Data	Error! Bookmark not defined.

Document Information

Project acronym and full title		LIFE SIRIUS - A System for Integrated Environmental Information in Urban areas	
Granting Authority		CINEA - European Climate Infrastructure and Environment Executive Agency	
Deliverable title		EMS Manual	
Date of delivery		19/03/2025	
Work Package		WP3	Integrated Regional Environmental Information and Management System
Work Package Leader		AUTH	
Version History			
Issue Date	Version	Author	Partner
19/03/2025	V.1	Athena Progiou	AXON

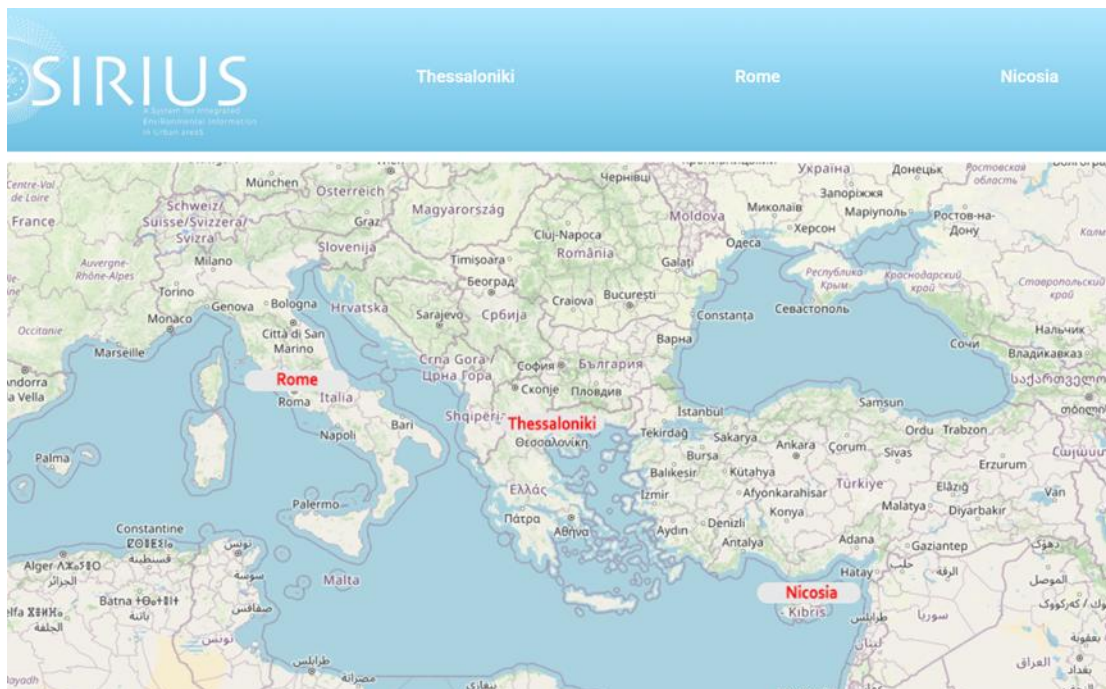
Quality of Information Disclaimer

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

I Accessing the platform

The SIRIUS Online Platform provides real-time air quality data for three cities, Thessaloniki, Rome, Nicosia. It enables users to access air pollution levels and track historical trends. This manual will use Thessaloniki as an example. However, the same steps, features, and instructions apply equally to the other cities available on the platform. Users can follow the same workflow regardless of their selected city.

- Open a web browser (Chrome, Firefox, Edge, etc.).
- Visit <https://sirius.devav.gr/>.

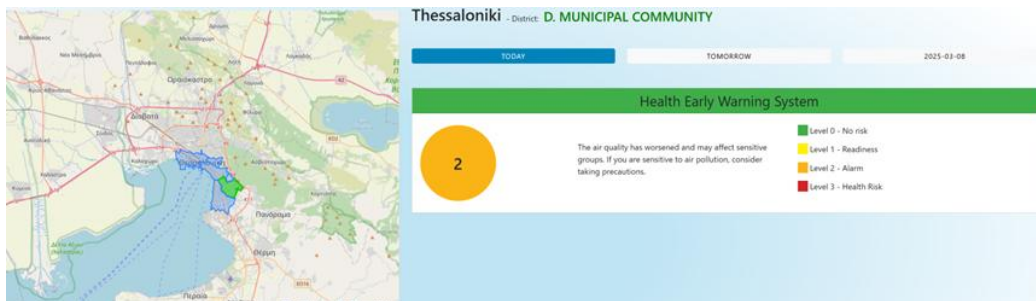


II Features & Navigation

a. Main Dashboard

The dashboard consists of:

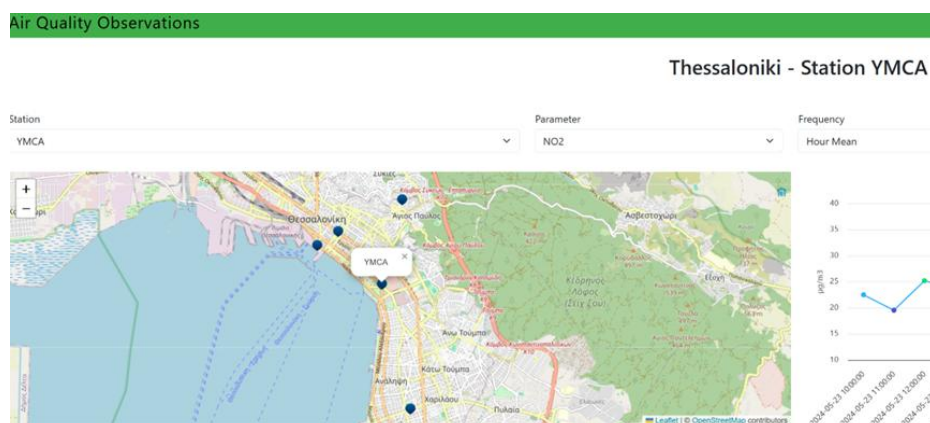
- ✓ Interactive Map – Displays air quality data in real time



- ✓ Air Quality forecast – Provides measurements for key pollutants



- ✓ Air Quality observations – Customize data display based on time and location



b. Understanding Air Quality Data

The platform provides measurements for:

- **PM10** – Particulate Matter (10 microns)
- **PM2.5** – Fine Particulate Matter
- **NO2** – Nitrogen Dioxide
- **O3** – Ozone
- **CO** – Carbon Monoxide

Each pollutant has a color-coded indicator based on **Air Quality Index (AQI)** levels:

Excellent (Green) – Safe air quality

Good (Yellow) – Safe air quality

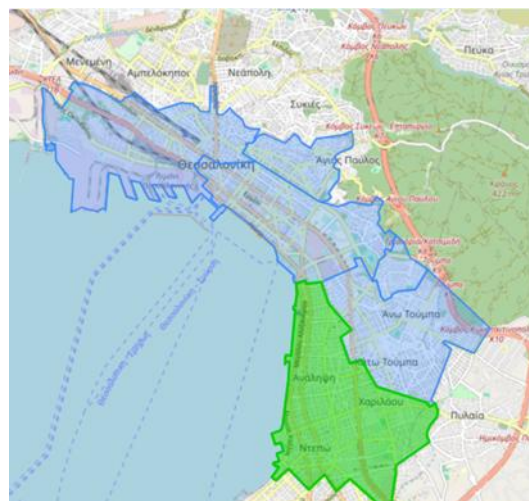
Moderate (Orange) – Acceptable but some risks for sensitive groups

Unhealthy - Bad (Pink/Red/Purple) – Hazardous air conditions

c. Viewing Data

Select a Location on the Map.

The interactive map displays different municipal communities outlined in blue color (Picture 1). Hover over or click on an area (e.g., E. MUNICIPAL COMMUNITY in the screenshot). The selected area will be highlighted, and specific air quality data will appear. At the top of the screen, you will find buttons labeled "Today," "Tomorrow," and a third option for two days after tomorrow (Picture 2).



Picture 1

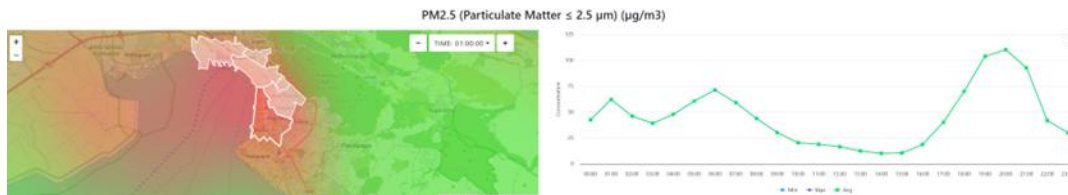
Thessaloniki - District: **E. MUNICIPAL COMMUNITY**

TODAY TOMORROW 2025-03-08

Picture 2

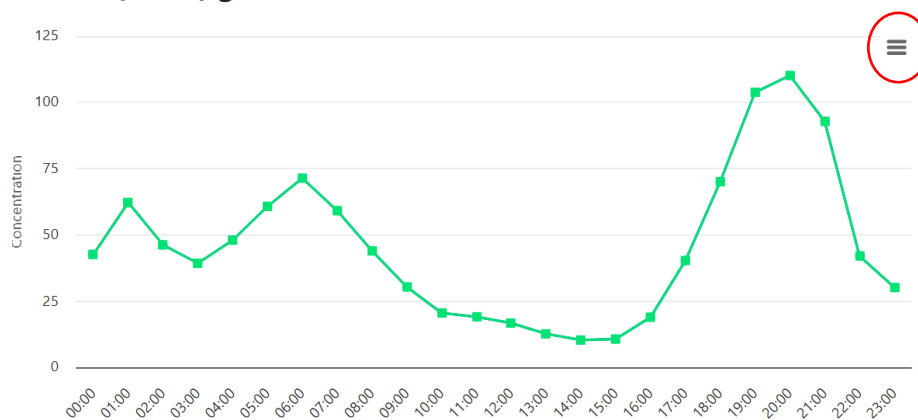
Air Quality Forecasts

The Sirius platform allows users to analyze hourly air quality variations using an interactive time selector and displays the forecast in both a chart and an interpolated map (Picture 3).



Picture 3

1. Locate the white button labeled "TIME" at the top right of the map.
2. Click the "+" or "-" buttons to move forward or backward in time.
3. This changes the air quality data displayed on both:
 - The interpolated heatmap on the left.
 - The hourly concentration chart on the right.
4. Locate the three-horizontal-lines button (☰) in the top right corner of the graph. Click the button to open the data export menu (Picture 4).

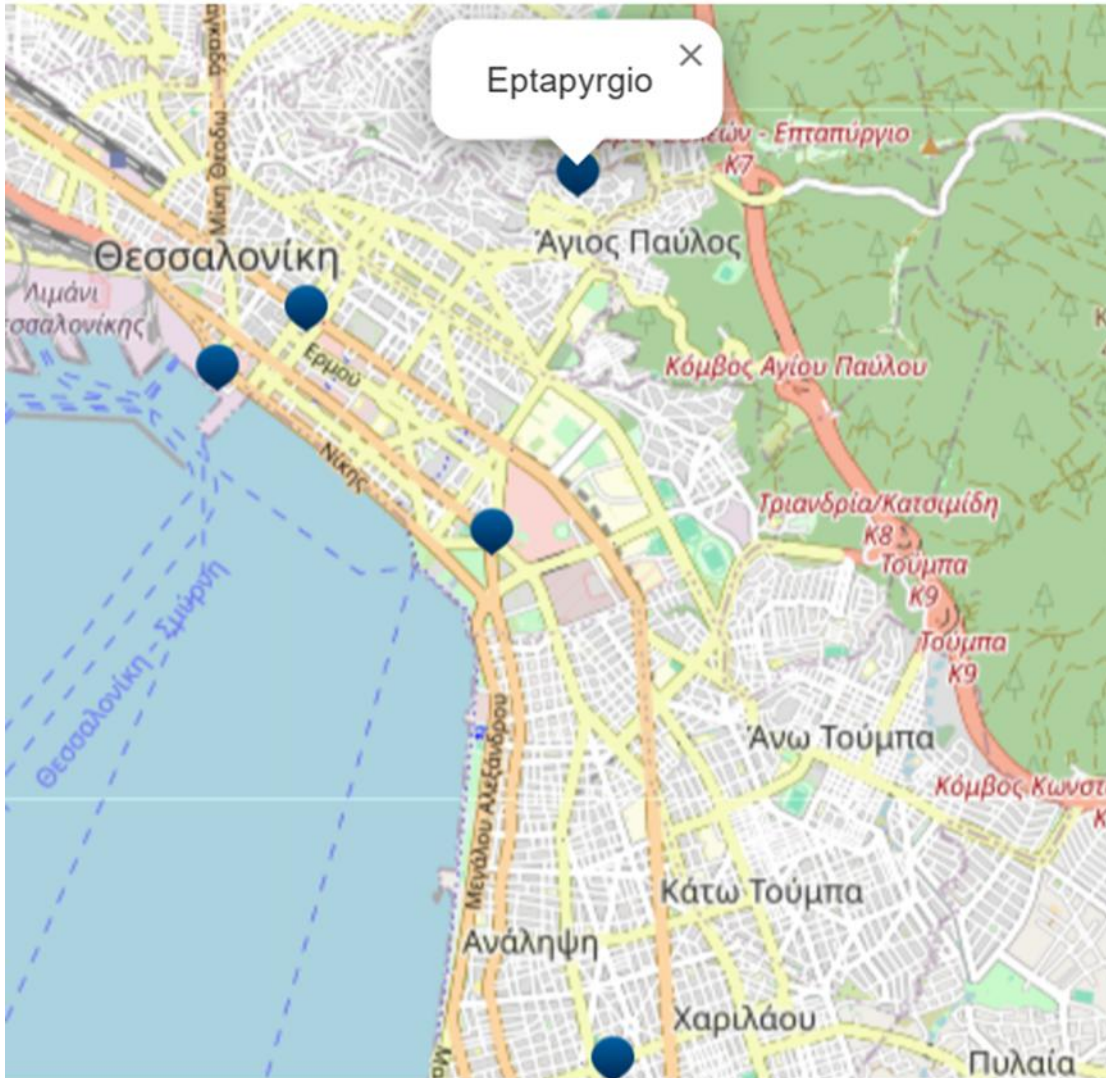


Picture 4

Air Quality Observations

The Sirius platform allows users to access air quality observations from specific monitoring stations (Picture 5), select pollutants, set time ranges, and analyze data trends.

1. In the **“Station”** dropdown menu, choose a monitoring station from the available options. The selected station will be highlighted on the interactive map (Picture 6).
2. In the **“Parameter”** dropdown menu, select a pollutant: The system will display concentration levels for the chosen pollutant (Picture 6)
3. In the **“Frequency”** dropdown menu, select how often data should be displayed: Hourly Mean (Average per hour), Daily Mean (Average per day) (Picture 7)
4. Click on the **“From Date”** and **“To Date”** fields. Choose a time range for the air quality data (e.g., 31 May 2024 – 1 June 2024). The system updates the graph and data display accordingly (Picture 7 & 8).
5. Download or Export the Data Click on the **three-line menu (☰) at the top-right of the graph** (Picture 8).



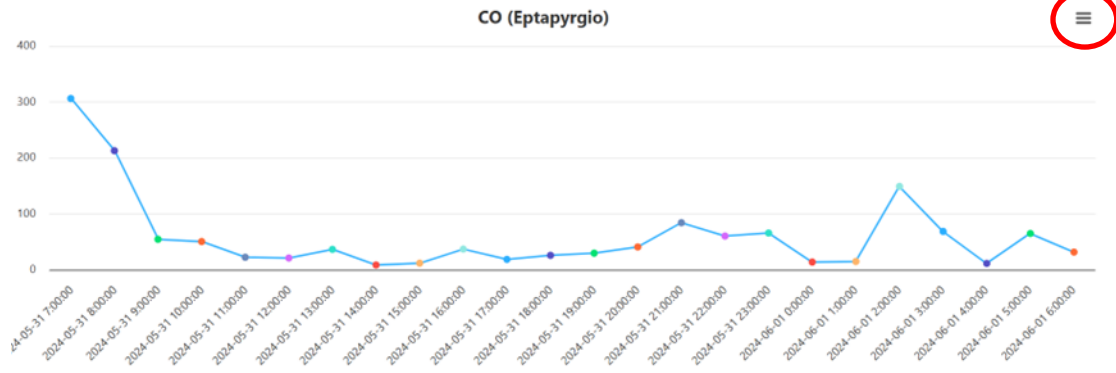
Picture 5

Station	Parameter
Ερταπύργιο	CO

Picture 6

Frequency	From Date	To Date
Hour Mean	05/31/2024	06/01/2024

Picture 7



Picture 8



A System for Integrated Environmental
Information in Urban areas is co-funded
By the European Union