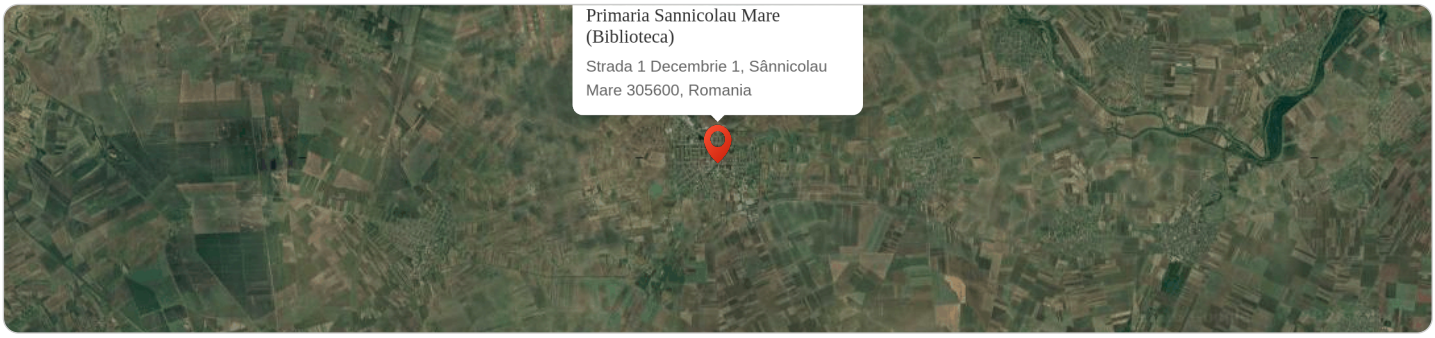
Primaria Sannicolau Mare (Biblioteca)

MONTHLY AIR-QUALITY REPORT

Timp de la: **01/12/2025, 00:00**
Timp până la: **30/12/2025, 23:59**

Numele dispozitivului: **Primaria Sannicolau Mare (Biblioteca)**
Locația dispozitivului: **Strada 1 Decembrie 1, Sânnicolau Mare 305600, Romania**

Parametrii: **EAQI , NO_2 , O_3 , SO_2 , $PM_{2.5}$, PM_{10} , Wind Speed , Wind Direction , CO , R. Humidity , PM_1 , PM_{100} , Pressure , Temperature**



Media indicelui de calitate al aerului (ICA): **381**

Prezentare generală zilnică: Parametrii indicelui de calitate al aerului (ICA)

	EAQI AQI	NO_2 µg/m³	O_3 µg/m³	SO_2 ppb	$PM_{2.5}$ µg/m³	PM_{10} µg/m³
Average	381	17.11	32.89	0	52.21	140.46
Maximum	422	25.25	44.35	0	113.23	383.65
Date	09/12/2025	18/12/2025	30/12/2025	01/12/2025	09/12/2025	09/12/2025
Minimum	88	10.88	25.68	0	11.54	35.07
Date	30/12/2025	27/12/2025	18/12/2025	01/12/2025	30/12/2025	30/12/2025

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Prezentare generală zilnică: Alți parametri

	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM_1 µg/m³	PM_{100} µg/m³	Pressure HPa	Temperature °C
Average	0.38	104.71	100	475.2	85.83	38.73	263.58	1014.34	5.11
Maximum	5.43	308.6	100	730.88	90.93	69.64	939.04	1021.98	10.06
Date	28/12/2025	28/12/2025	01/12/2025	18/12/2025	16/12/2025	18/12/2025	27/12/2025	14/12/2025	05/12/2025
Minimum	0.51	304.95	100	379.29	72.41	9.67	62.3	1002.36	0.16
Date	12/12/2025	12/12/2025	01/12/2025	28/12/2025	30/12/2025	30/12/2025	28/12/2025	05/12/2025	27/12/2025

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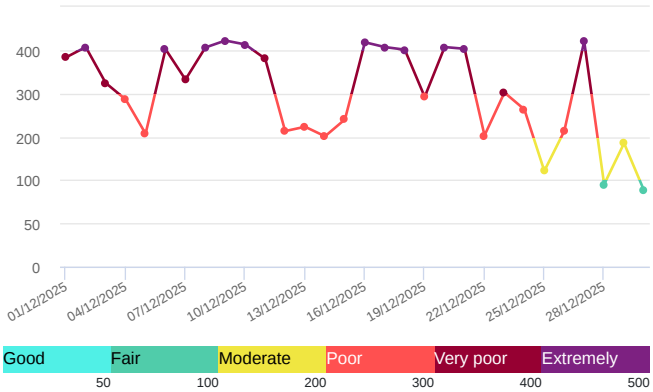
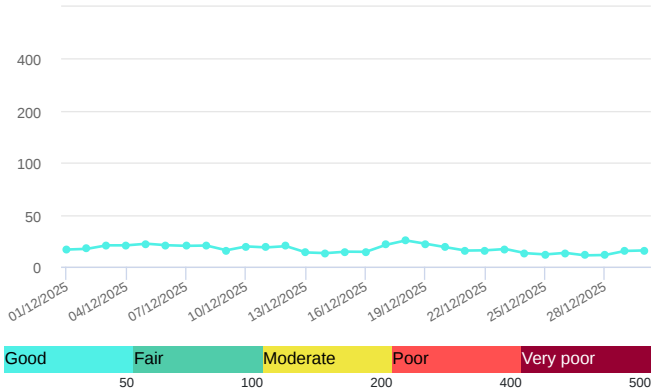
Weekly Average

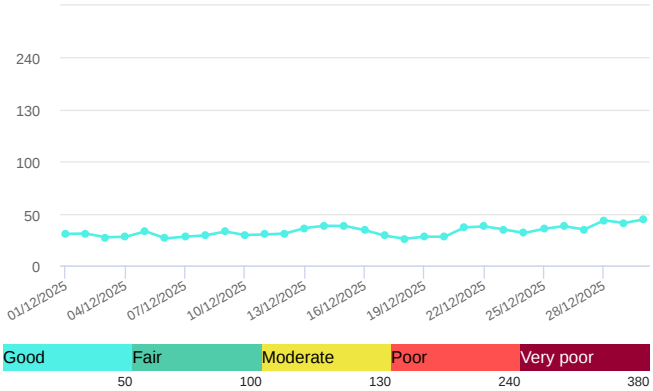
EAQI (AQI)



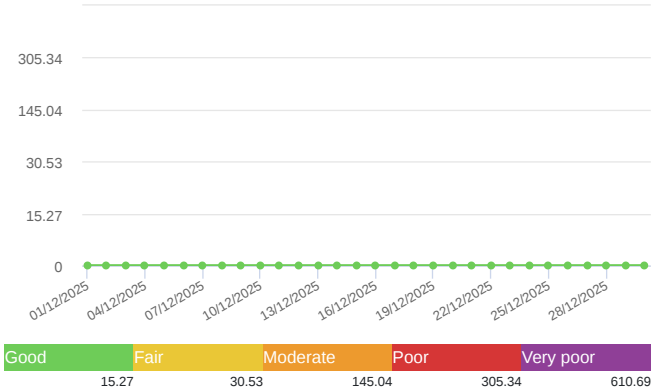
NO_2 (µg/m³)



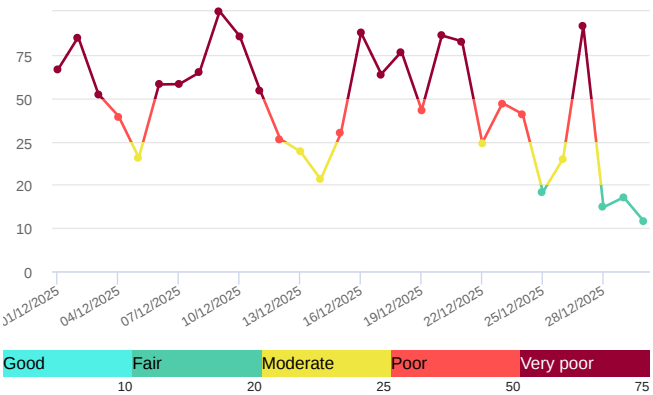
O_3 (µg/m³)



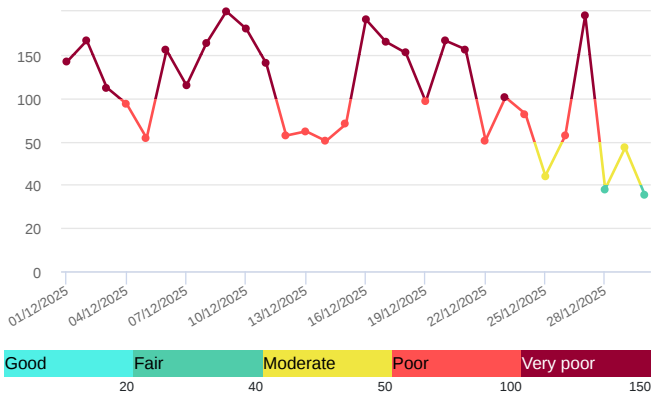
SO_2 (ppb)



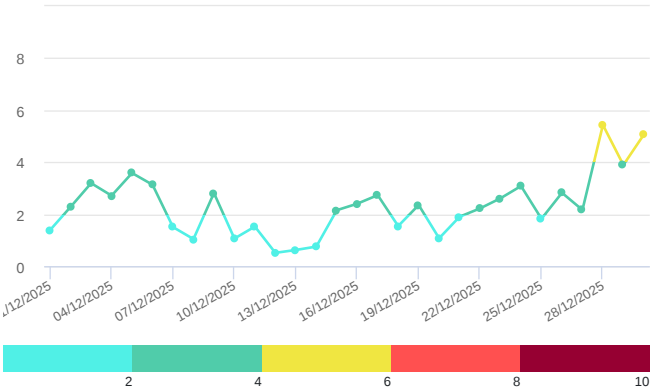
$PM_{2.5}$ (µg/m³)



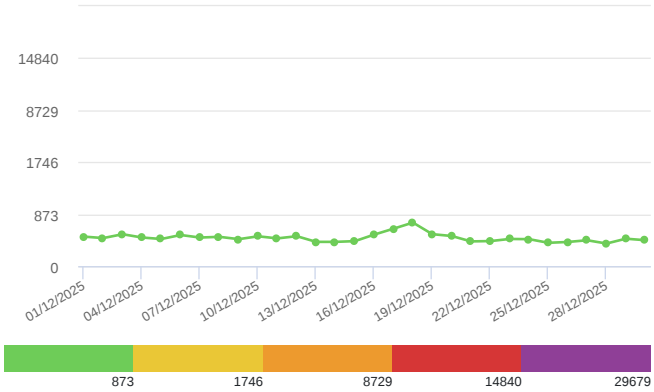
PM_{10} (µg/m³)



Wind Speed (m/s)



CO (ppb)



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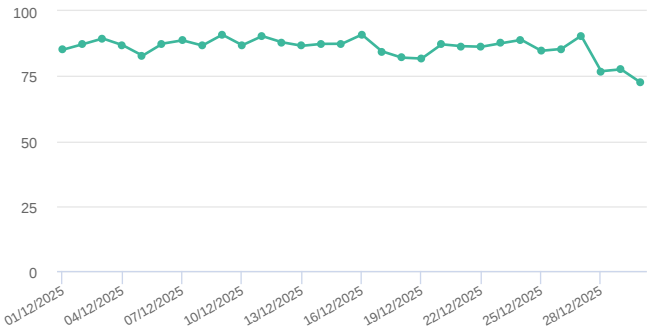
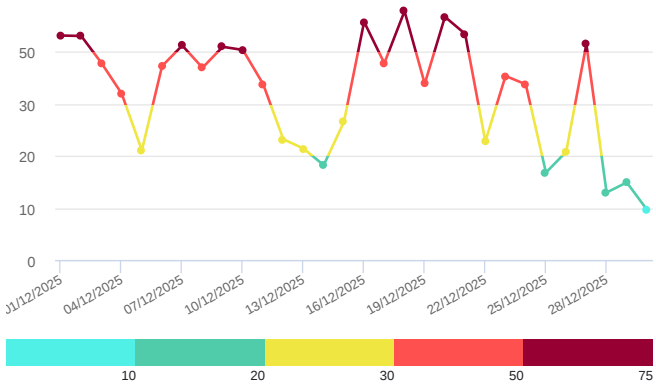
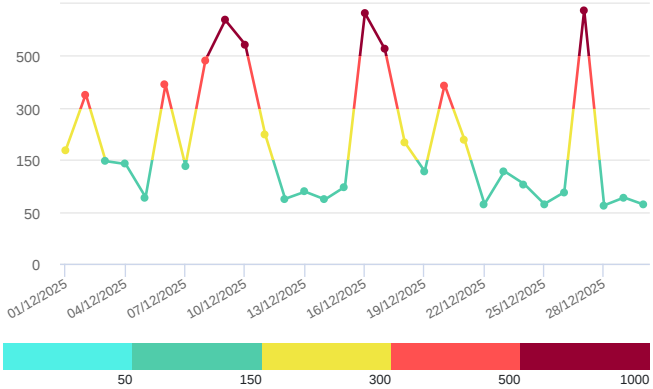
R. Humidity (%)



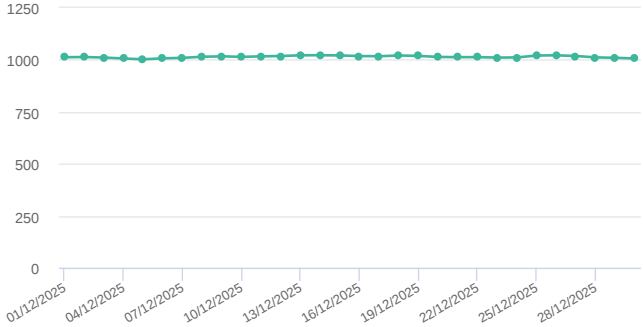
PM1 (µg/m³)



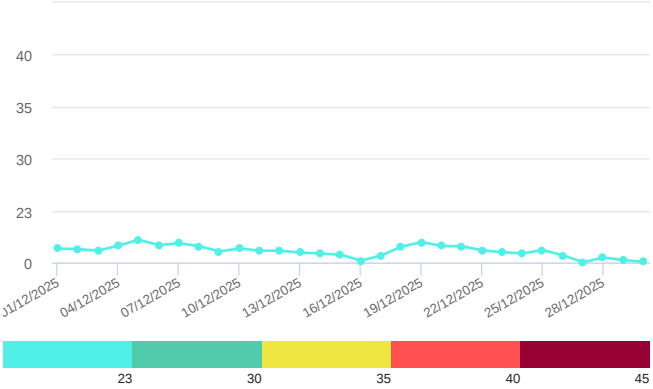
PM100 (µg/m³)



Pressure (HPa)



Temperature (°C)



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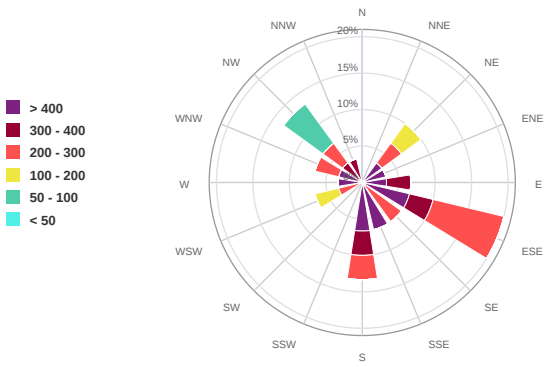
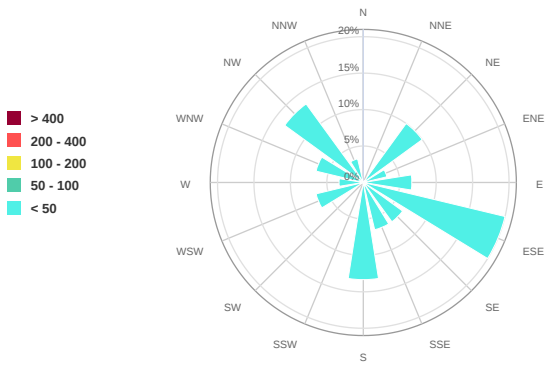
Weekly Average

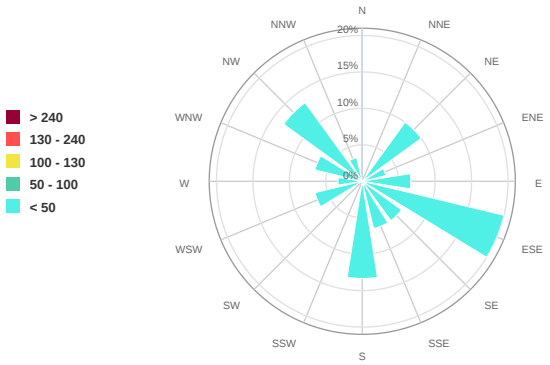
EAQI (AQI)



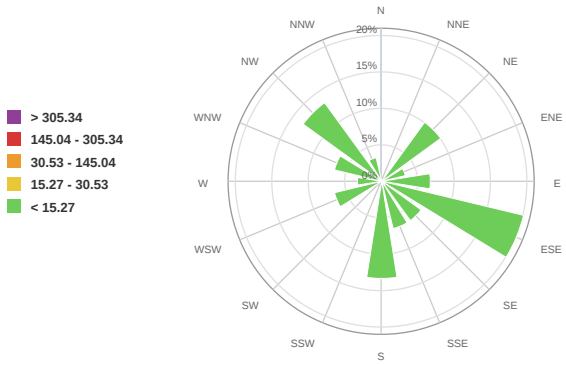
NO_2 (µg/m³)



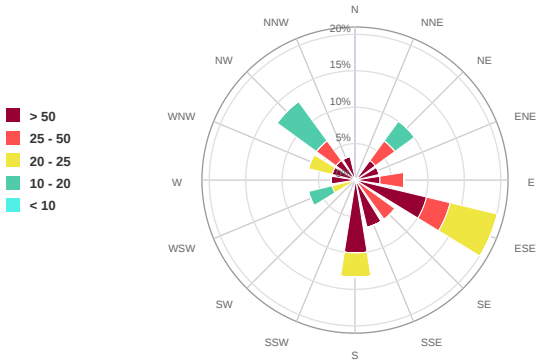
O_3 (µg/m³)



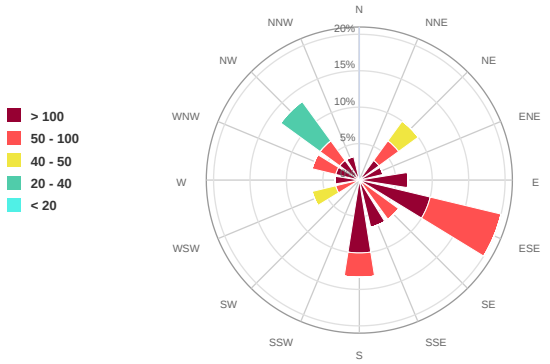
SO_2 (ppb)



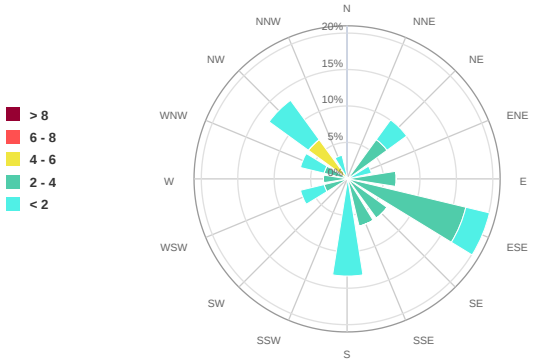
$PM_{2.5}$ (µg/m³)



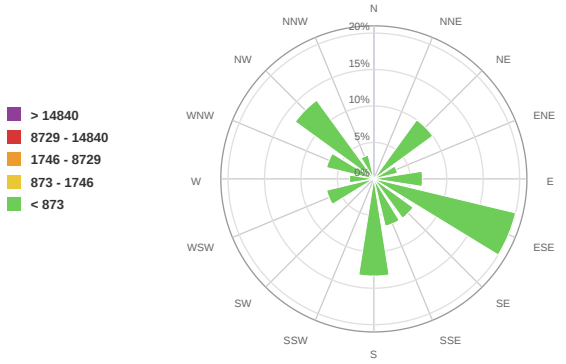
PM_{10} (µg/m³)



Wind Speed (m/s)



CO (ppb)



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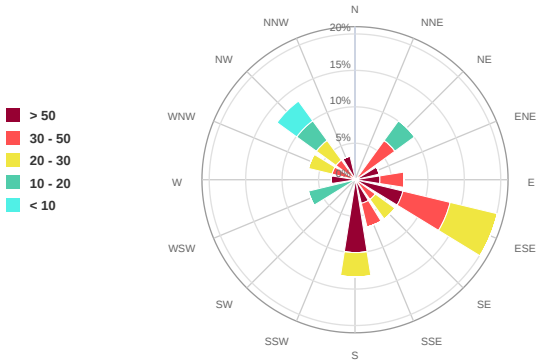
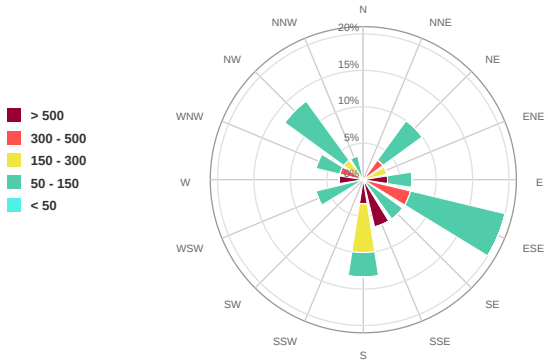
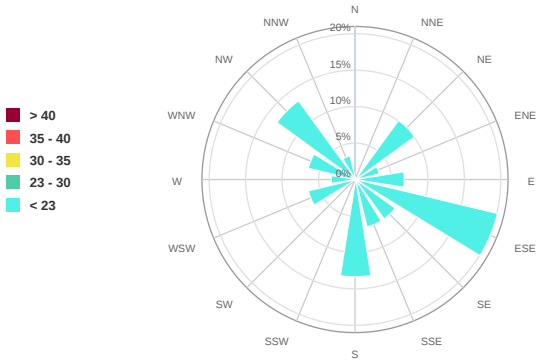
PM1 (µg/m³)



PM100 (µg/m³)



Temperature (°C)



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Alerte

No alerts for the selected date and time range

Insights

- 30/12/2025, 23:59 **Dominance of Poor to Extremely Poor Air Quality Days**: The majority of days recorded air quality in the 'Poor', 'Very Poor', or 'Extremely Poor' categories based on EAQI, indicating persistent pollution concerns.
- 30/12/2025, 23:59 **High $PM_{2.5}$ Concentrations Contributing to Poor Air Quality**: $PM_{2.5}$ levels frequently exceeded safe limits, often falling into the 'Poor', 'Very Poor' and 'Extremely Poor' zones, significantly impacting EAQI.
- 30/12/2025, 23:59 **Elevated PM_{10} Levels Exacerbate Air Pollution**: PM_{10} concentrations often reached 'Very Poor' to 'Extremely Poor' levels, further contributing to the overall hazardous air quality conditions.
- 30/12/2025, 23:59 **NO_2 Levels Remain Mostly Within Acceptable Ranges**: NO_2 concentrations were predominantly within the 'Good' to 'Fair' range, suggesting it's not the primary driver of poor EAQI readings.
- 30/12/2025, 23:59 **O_3 Levels Generally in Fair to Moderate Condition**: O_3 concentrations mostly registered in the 'Fair' to 'Moderate' ranges, indicating a relatively less significant contribution to overall air pollution severity.
- 30/12/2025, 23:59 **SO_2 Levels Consistently Low Throughout the Period**: SO_2 levels were consistently recorded at 0 ppb, suggesting it is not a contributing factor to the observed air quality issues.
- 30/12/2025, 23:59 **Wind Speed Variation and Air Quality**: Higher wind speeds might be associated with slightly improved, but not substantially, air quality, warranting further investigation.
- 30/12/2025, 23:59 **Humidity Consistently High**: Relative humidity remained consistently high throughout the period, potentially influencing the dispersion and behavior of pollutants.
- 30/12/2025, 23:59 **Temperature Fluctuations and Air Quality**: Temperature variations do not show a clear direct correlation with EAQI, requiring further investigation into specific pollutant interactions.
- 30/12/2025, 23:59 **High PM1 concentration**: The high concentration of PM1 during several instances can lead to serious health complications due to its deep penetration nature.
- 30/12/2025, 23:59 **Pressure Fluctuations impact dispersion**: Air pressure varies throughout the month which affects the dispersion and movement of pollutants throughout the area.
- 30/12/2025, 23:59 **EAQI and PM correlation**: High EAQI values align strongly with higher $PM_{2.5}$ and PM_{10} readings, confirming their critical impact.
- 30/12/2025, 23:59 **Wind Direction Influence**: Wind direction may influence the concentration of pollutants depending upon the source.
- 30/12/2025, 23:59 **CO readings relation with EAQI**: The CO readings are at peak during the extremely poor air quality instance, thus making it a concerning issue.
- 30/12/2025, 23:59 **PM100 extreme during poor air condition**: The PM100 particle readings reached a max reading, proving that it is contributing towards the degradation of the air quality.
- 28/12/2025, 23:59 **Lowest EAQI**: On 2025-12-28T21:59:59.000Z the EAQI reading was the lowest among all values, thus making it the best air quality day of the month.
- 09/12/2025, 23:59 **Highest EAQI**: On 2025-12-09T21:59:59.000Z the EAQI reading was the highest among all values, thus making it the worst air quality day of the month.
- 30/12/2025, 23:59 **SO_2 level consistency**: The SO_2 levels stayed constant at 0 throughout the month and has not contributed towards air degradation.
- 18/12/2025, 23:59 **CO peak level**: The CO levels reached the highest value of 730 on 2025-12-18T21:59:59.000Z.
- 30/12/2025, 23:59 **NO_2 levels constant**: The levels of NO_2 remain nearly constant and have very little deviation from the overall trend.
- 09/12/2025, 23:59 **$PM_{2.5}$ Highest Recorded**: The highest $PM_{2.5}$ recorded was on 2025-12-09T21:59:59.000Z, this resulted in extremely poor air.
- 09/12/2025, 23:59 **PM_{10} Highest Recorded**: The highest PM_{10} recorded was on 2025-12-09T21:59:59.000Z, this also resulted in extremely poor air.
- 16/12/2025, 23:59 **PM_1 Highest Recorded**: The highest PM_1 recorded was on 2025-12-16T21:59:59.000Z, further health complications can arise because of this.
- 09/12/2025, 23:59 **PM_{100} Highest Recorded**: The highest PM_{100} recorded was on 2025-12-09T21:59:59.000Z
- 30/12/2025, 23:59 **O_3 Highest Recorded**: The highest O_3 recorded was on 2025-12-30T21:59:59.000Z,
- 30/12/2025, 23:59 **EAQI above 400**: The EAQI exceeded 400 a total of 7 times throughout the month, showing a consistent high pollution rating.
- 30/12/2025, 23:59 **Good and Fair Days**: Only 2 out of 30 days had readings that were classified as good or fair, based upon the EAQI index.
- 30/12/2025, 23:59 **Wind Speed and EAQI**: Higher Wind Speeds correlate with fair or moderate EAQI, while low speeds correlate to poor or extremely poor.
- 30/12/2025, 23:59 **Most Common PM**: The most prevalent particle is PM100, indicating a need to focus on that.
- 30/12/2025, 23:59 **Humidity and Temperature Relation**: Low temperature can lead to higher humidity.

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Parametrii indicelui de calitate al aerului (ICA)

Weekly Average

To Date	EAQI AQI	NO_2 µg/m³	O_3 µg/m³	SO_2 ppb	$PM_{2.5}$ µg/m³	PM_{10} µg/m³
01/12/2025, 23:59	383	16.48	30.39	0	66.48	141.74
02/12/2025, 23:59	407	17.16	30.69	0	90.49	225.82
03/12/2025, 23:59	324	20.53	27.14	0	52.24	112.08
04/12/2025, 23:59	286	20.56	27.62	0	39.45	93.08
05/12/2025, 23:59	207	22.11	32.84	0	23.12	53.7
06/12/2025, 23:59	402	20.67	26.12	0	57.82	173.96
07/12/2025, 23:59	332	20.03	27.71	0	57.99	114.55
08/12/2025, 23:59	406	20.33	28.98	0	64.76	212.13
09/12/2025, 23:59	422	15.78	32.63	0	113.23	383.65
10/12/2025, 23:59	413	19.49	29.3	0	91.21	289.27
11/12/2025, 23:59	380	18.53	29.83	0	54.49	139.99
12/12/2025, 23:59	213	19.74	30.82	0	26.27	56.63
13/12/2025, 23:59	223	13.68	36.07	0	23.82	61.54
14/12/2025, 23:59	201	13.06	38.19	0	20.62	50.35
15/12/2025, 23:59	240	14.43	38	0	29.57	69.95
16/12/2025, 23:59	418	14.28	33.98	0	94.38	339.99
17/12/2025, 23:59	407	21.02	28.68	0	63.79	219.97
18/12/2025, 23:59	401	25.25	25.68	0	77.71	159.84
19/12/2025, 23:59	292	22.03	27.69	0	42.98	95.82
20/12/2025, 23:59	407	18.73	27.63	0	91.92	225.36
21/12/2025, 23:59	403	15.49	36.67	0	86.8	178.4
22/12/2025, 23:59	203	15.73	37.59	0	24.83	51.26
23/12/2025, 23:59	302	17.02	34.58	0	47.06	100.81
24/12/2025, 23:59	263	13	31.26	0	40.71	81.68
25/12/2025, 23:59	121	11.78	35.41	0	18.28	42.06
26/12/2025, 23:59	213	13.32	37.85	0	22.99	56.62
27/12/2025, 23:59	420	10.88	34.53	0	99.99	361.97
28/12/2025, 23:59	95	11.25	43.47	0	14.79	38
29/12/2025, 23:59	185	15.16	40.85	0	17.08	48.5
30/12/2025, 23:59	88	15.65	44.35	0	11.54	35.07

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Alți parametri

Weekly Average

To Date	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM_1 µg/m³	PM_{100} µg/m³	Pressure HPa	Temperature °C
01/12/2025, 23:59	1.39	173.99	100	495.19	85.11	57.93	179.18	1012.18	6.2
02/12/2025, 23:59	2.28	111.41	100	470.9	87.23	57.7	352.15	1013.4	5.92
03/12/2025, 23:59	3.19	122.48	100	534.74	89.43	45.76	147.38	1010.62	5.3
04/12/2025, 23:59	2.71	110.17	100	479.82	86.86	33.99	141.82	1006.33	7.55
05/12/2025, 23:59	3.58	120.05	100	455.08	82.83	21.08	78.13	1002.36	10.06
06/12/2025, 23:59	3.13	37.43	100	522.35	87.45	44.59	389.35	1007.06	7.75
07/12/2025, 23:59	1.5	348.69	100	479.24	88.72	53.13	138.59	1009.42	8.56
08/12/2025, 23:59	1.04	290.58	100	491.55	86.73	43.93	482.59	1014.76	7.23
09/12/2025, 23:59	2.81	163.55	100	452.01	90.89	52.49	842.81	1016.61	4.92
10/12/2025, 23:59	1.06	177.99	100	500.61	86.85	51	607.82	1014.09	6.26
11/12/2025, 23:59	1.52	308.78	100	464.92	90.35	37.67	222.86	1016.62	5.24
12/12/2025, 23:59	0.51	304.95	100	501.64	87.97	23.22	74.86	1018.23	5.24
13/12/2025, 23:59	0.62	189.21	100	406.67	86.62	21.43	88.55	1021.73	4.42
14/12/2025, 23:59	0.75	246.52	100	406.45	87.36	18.23	73.73	1021.98	3.97
15/12/2025, 23:59	2.15	127.69	100	419.12	87.4	26.55	98.11	1020.98	3.5
16/12/2025, 23:59	2.4	83.68	100	528.83	90.93	64.5	910.55	1017.89	0.84
17/12/2025, 23:59	2.73	148.33	100	628.56	84.51	45.69	564.98	1017.18	3.13
18/12/2025, 23:59	1.54	181.53	100	730.88	82.07	69.64	200.11	1020.82	7.04
19/12/2025, 23:59	2.35	140.21	100	535.93	81.71	37.78	127.85	1018.63	9.04
20/12/2025, 23:59	1.07	110.37	100	505.42	87.19	66.9	387.73	1013.75	7.33
21/12/2025, 23:59	1.9	60.74	100	414.6	86.48	58.73	207.4	1012.66	7.19
22/12/2025, 23:59	2.22	104.42	100	419.95	86.26	22.81	65.02	1012.81	5.42
23/12/2025, 23:59	2.61	95.27	100	455.46	87.62	40.77	127.93	1010.67	4.56
24/12/2025, 23:59	3.08	48.11	100	452.17	88.9	37.56	103.13	1011.42	4.07
25/12/2025, 23:59	1.82	51.72	100	391.51	84.7	16.81	64.94	1020.62	5.55
26/12/2025, 23:59	2.82	299.38	100	404.8	85.39	20.8	87.56	1021.6	3.13
27/12/2025, 23:59	2.16	261.49	100	433.63	90.48	53.79	939.04	1018.2	0.16
28/12/2025, 23:59	5.43	308.6	100	379.29	76.84	12.97	62.3	1011.55	2.26
29/12/2025, 23:59	3.89	257.97	100	459.65	77.56	14.91	77.43	1009.57	1.03
30/12/2025, 23:59	5.06	306.16	100	435.13	72.41	9.67	63.69	1006.38	0.34

Oizom will not be responsible for Environmental Data accuracy once Validated

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