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1-st year master's MCM

Vote for
our *future*





Air Pollution is not a joke
Air Pollution will make you choke



QUESTION: HOW CAN I HELP TO ALMATY
CITIZENS?

ANSWER: I CAN SHOW THEM THAT THE PROBLEM IS REAL



[Алматы](#)

Сейчас

Сегодня

Завтра

3 дня

10 дней

2 недели

Месяц

Неделя

Ещё

Погода

Ветер

Снег

Дороги

Давление

Влажность

! Видимость

Солнце и Луна

УФ-индекс

Г/м активность

Казахстан / Алматы (город республиканского значения)

Погода в Алматы сегодня

Сейчас

17:52

**+5**

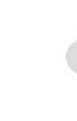
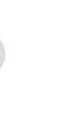
По ощущению +5

Вт, 15 мар

Сегодня

**+2****+5****Ср, 16 мар**

Завтра

0Пасмурно,
небольшой
снег с дождём
0,8 мм0⁰⁰3⁰⁰6⁰⁰9⁰⁰12⁰⁰15⁰⁰18⁰⁰21⁰⁰**+5****+4****+4****+5****+4****+5****+5****+2****+2**

Скорость ветра, м/с

1

1

1-3

1

1

0

1-4

1-3

Осадки, мм

н/д

0

0

н/д

0

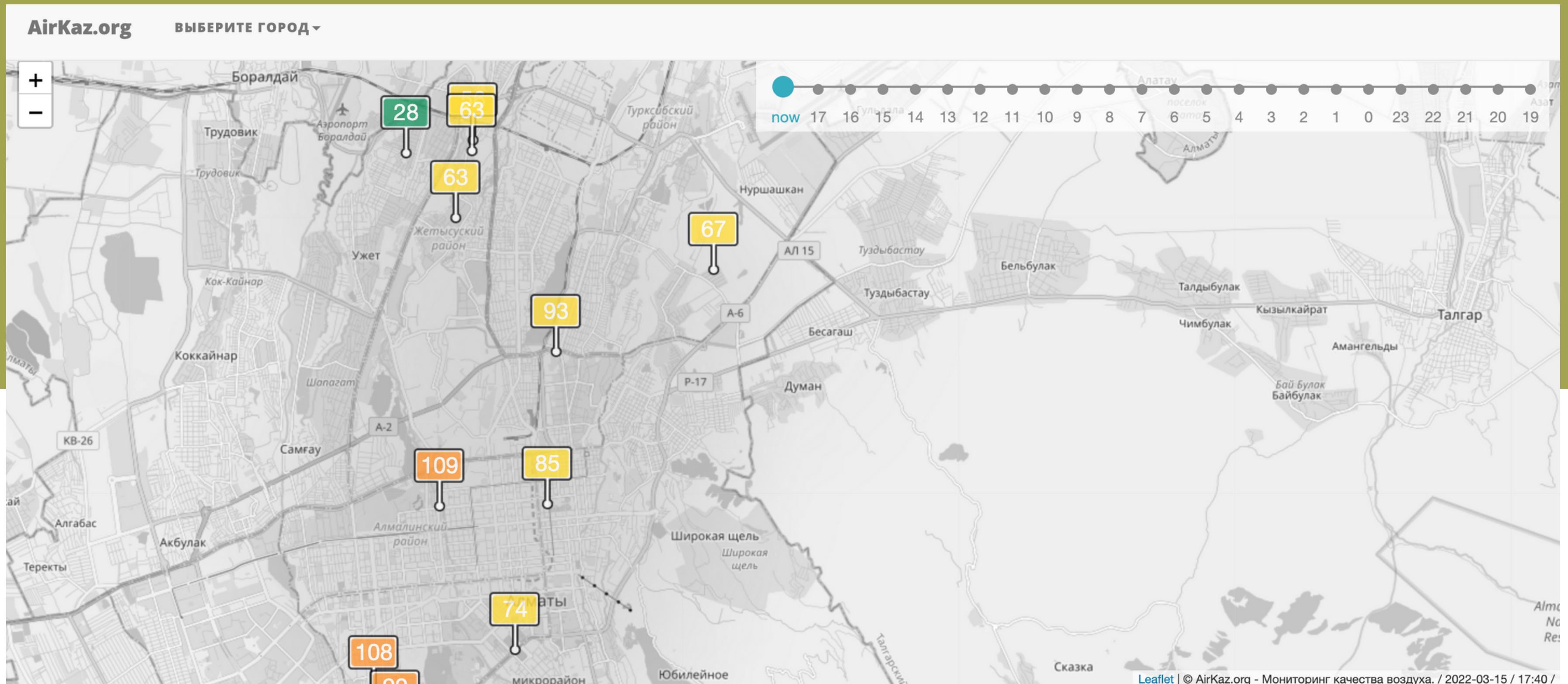
0

2,4

2,1

[Распечатать...](#)**Worldwide Shipping
Exports**<https://www.gismeteo.kz/weather-almaty-5205/tomorrow/>

Air Quality Index (AQI) Basics



Частицы PM2.5:

что это, откуда и почему об этом все говорят

Our future depends on it.

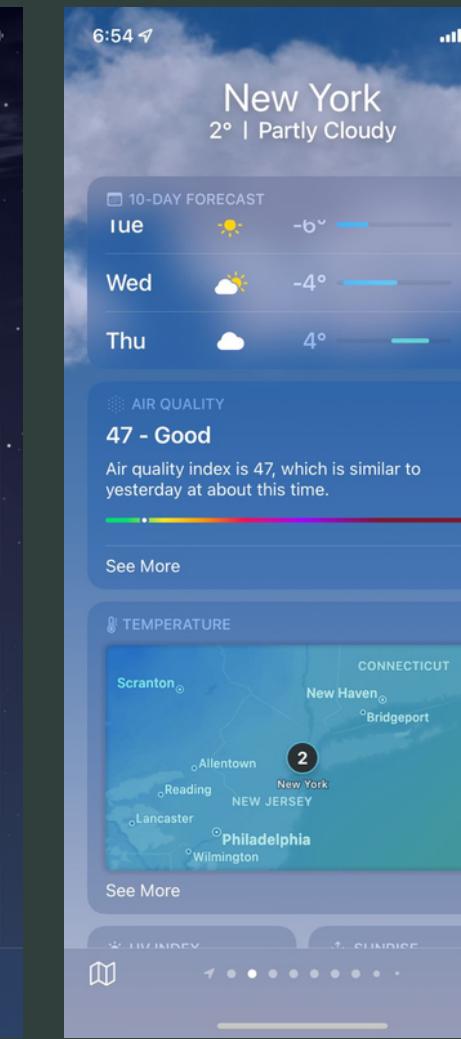
AQI Basics for Ozone and Particle Pollution

Daily AQI Color	Levels of Concern	Values of Index	Description of Air Quality
Green	Good	0 to 50	Air quality is satisfactory, and air pollution poses little or no risk.
Yellow	Moderate	51 to 100	Air quality is acceptable. However, there may be a risk for some people, particularly those who are unusually sensitive to air pollution.
Orange	Unhealthy for Sensitive Groups	101 to 150	Members of sensitive groups may experience health effects. The general public is less likely to be affected.
Red	Unhealthy	151 to 200	Some members of the general public may experience health effects; members of sensitive groups may experience more serious health effects.
Purple	Very Unhealthy	201 to 300	Health alert: The risk of health effects is increased for everyone.
Maroon	Hazardous	301 and higher	Health warning of emergency conditions: everyone is more likely to be affected.

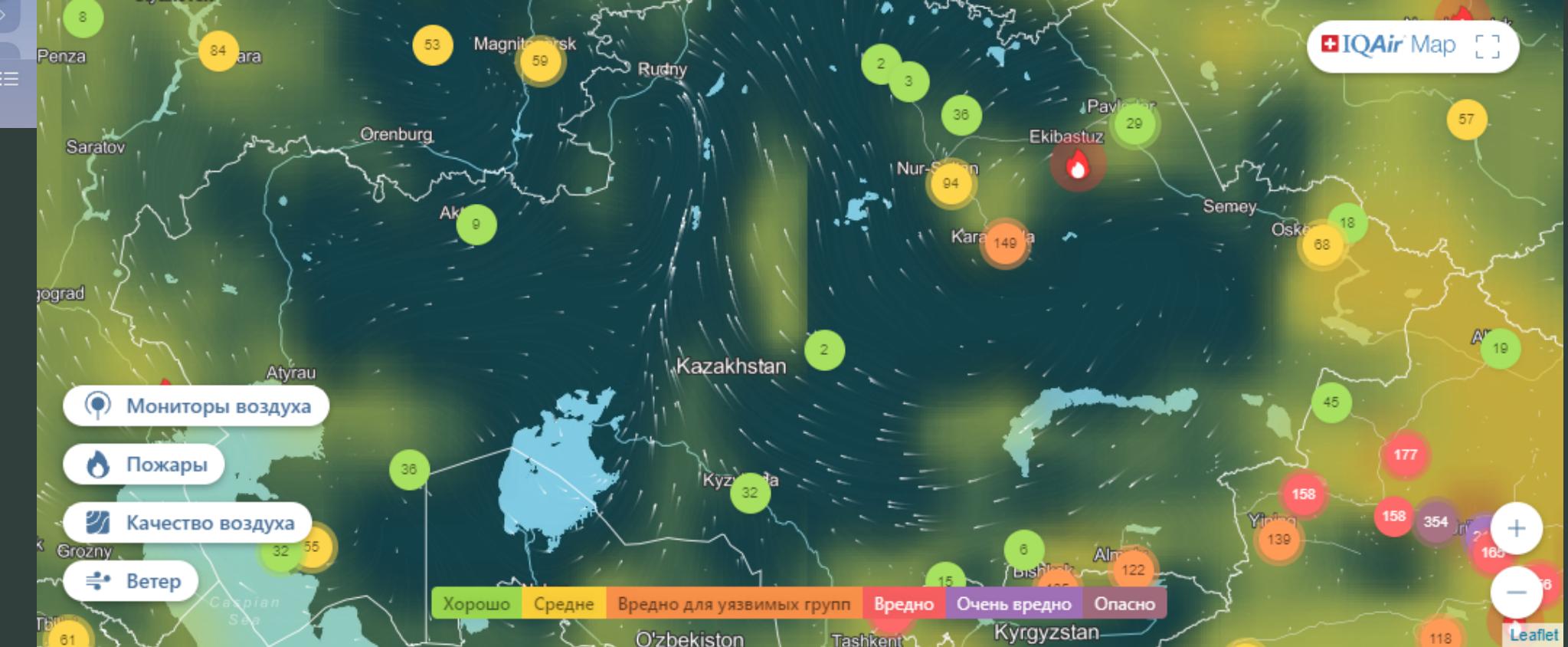
Five major pollutants

EPA establishes an AQI for five major air pollutants regulated by the Clean Air Act. Each of these pollutants has a national air quality standard set by EPA to protect public health:

- ground-level ozone
- particle pollution (also known as particulate matter, including PM2.5 and PM10)
- carbon monoxide
- sulfur dioxide
- nitrogen dioxide



РЕЙТИНГ ГОРОДОВ ПО КАЧЕСТВУ ВОЗДУХА В РЕАЛЬНОМ ВРЕМЕНИ		
#	CITY	AQI США
1	Шымкент, Туркестанская область	168
2	Караганда, Карагандинская обл...	164
3	Темиртау, Карагандинская обла...	162
4	Алматы, Алматы	150
5	Бурунрай, Алматинская Область	91



What I plan to do:

Main page with basic information

Box with weather

Box with AQI

Box for prediction of AQI

What I plan to do:



$$\frac{\partial C}{\partial t} + u \frac{\partial C}{\partial x} + v \frac{\partial C}{\partial y} + w \frac{\partial C}{\partial z} = \left(\cancel{\frac{\partial C}{\partial x}} \right) + 2 \left(\frac{\partial^2 C}{\partial x^2} + \frac{\partial^2 C}{\partial y^2} + \frac{\partial^2 C}{\partial z^2} \right)$$
$$\frac{\partial C}{\partial t} + A \frac{\partial C}{\partial x} = 0$$

Thank
you

