

## How to use Atmospheric Environmental Regional Observation System

Atmospheric Environmental Regional Observation System (AEROS) is a system to provide hourly updates from the observation of air pollution all over Japan, for 24 hours a day. On the website, you can look into the hourly values in the concentration of air pollutants as well as the warning and alert issued on photochemical oxidants for the last 7 days, on a map of Japan.

From the top page of the system, you can visit the respective website of “Hourly Monitoring Report” and “Warning and Alert Issued on Photochemical Oxidants” to see geographical distribution by districts. To see geographical distribution in the concentrations of air pollutants, click a district of your interest, in the map of Japan under the window of “Hourly Monitoring Report”, on your left in the middle of the top page. And likewise, to see geographical distribution in warning and alert issued on photochemical oxidants, click the name of a district of your interest, among the list under the “Warning and Alert Issued on Photochemical Oxidants” on your right in the middle of the top page. You may be able to get an idea on which button represents which district, by checking the map below.

The image shows a screenshot of the AEROS website interface. On the left, there is a window titled "Hourly Monitoring Report" with the instruction "Please click the district you want to see." Below this is a map of Japan divided into districts, each with a colored box and a label: Hokkaido (green), Chubu (orange), Kinki (red), Tohoku (yellow), Kanto (light blue), Tokai (dark blue), Chugoku/Shikoku (purple), and Okinawa (pink). On the right, there is a window titled "Warning and Alert Issued on Photochemical Oxidants" containing a vertical list of buttons for each district: Hokkaido, Tohoku, Kanto, Tokai, Chubu, Kinki, Chugoku/Shikoku, Kyushu, Okinawa, and Whole nation. At the bottom of the screenshot, a red text box states: "The data shown in this system are preliminary results, and not verified."

## Hourly Monitoring Report

On the “Hourly Monitoring Report” site, you can see the geographical distribution of hourly values in the concentrations of air pollutants for the last 7 days.

On the left side, you can choose parameters, category of stations, date and time, and districts as you like.

“Parameters” include, from the top to the bottom, SO<sub>2</sub>, NO, NO<sub>2</sub>, Ox (photochemical oxidant), Non-methane Hydrocarbons (NMHC), Suspended Particulate Matters (SPM), PM<sub>2.5</sub>, wind direction and speed, and temperature.

“Category of stations” can be chosen among either of ambient air monitoring stations and roadside air monitoring stations and all together.

“Date and Time” is presented in the form of YEAR/MONTH/DAY in the first line and TIME in the second line. You can also change the date and time by single click of the icons below. The definition of these icons is described below.



“Jump to the oldest data available in the system”



“Go backward for 3 hours”



“Go backward for 1 hour”



“Go forward for 1 hour”



“Go forward for 3 hours”



“Jump to the latest data available in the system”

“Districts” can be chosen among 1) Hokkaido, 2) Tohoku, 3) Kanto, 4) The Metropolitan Areas, 5) Tokai, 6) Chubu, 7) Kinki, 8) Chugoku/Shikoku, 9) Kyushu and 10) Okinawa. You can also move to the next district by clicking the arrows on the top/bottom or left/right side of the map in the center.

The hourly values are presented in different colors, corresponding to the level of concentrations in the range shown in the legend on the left.

Raw data can also be obtained in a tabulate form by clicking the icon on the bottom-left while the names of the monitoring stations are available only in Japanese and they are not linked with the map.



You can see maps and tables of hourly values of monitoring from X of XX XXX 20XX to XX XX XXX 20XX. Please see hourly values during the last 7 days from the list of stations.

### Select Parameters

- 二酸化硫黄(SO2) **Details of Parameters**
- 一酸化窒素(NO)
- 二酸化窒素(NO2)
- 光化学オキシダント(OX)
- 非メタン炭化水素(NMHC)
- 浮遊粒子状物質(SPM)
- 微小粒子状物質(PM2.5)
- 風向・風速 (Wind Direction, Wind Speed)
- 気温 (Temperature)

### Select Category of Stations

一般局

### Select Date & Time

2011 年 12 月 19 日

10 時

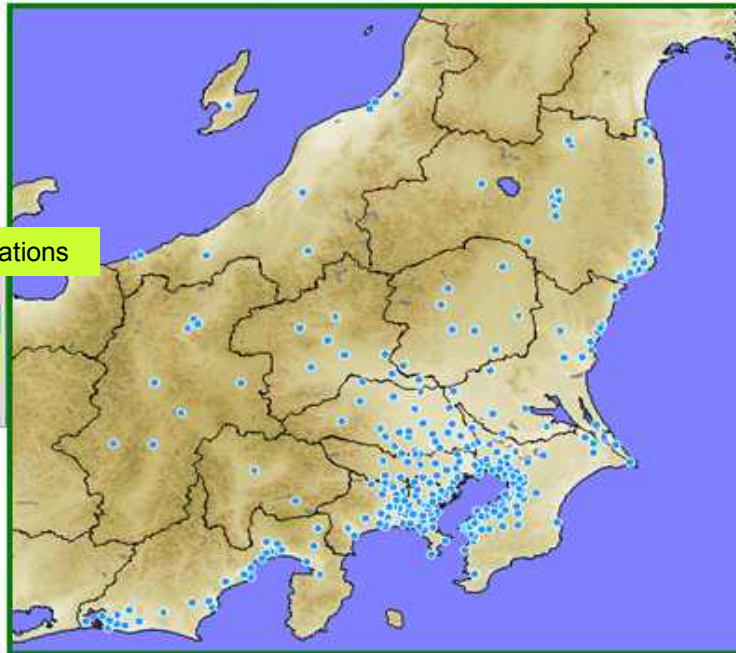
### Select Districts

関東

### See Table

Table of Hourly Values

### Map of Hourly Values



#### Legend

SO2 Con. 自排局	
Blue	:0.000~0.020 (ppm)
Cyan	:0.021~0.040 (ppm)
Green	:0.041~0.100 (ppm)
Yellow	:0.101~0.120 (ppm)
Orange	:0.121~0.150 (ppm)
Red	:0.151~ (ppm)

#### Station Category

一般局

District

関東

#### Date & Time

2011年12月19日10時

別ウィンドウで表示

測定値ランクを選択してください。選択された測定値の測定局名を表示します。

ランク

該当の測定局はありません

See in another window

## Warning and Alert Issued on Photochemical Oxidants

On this site for “Warning and Alert Issued on Photochemical Oxidants”, you can see the geographical distribution of warning and alert issued for photochemical oxidants for the last 7 days.

“Date and Time” is presented in the form of YEAR/MONTH/DAY in the first line and TIME in the second line. You can also choose the date and time by single click of the icons below. The definition of these icons is described below.



“Jump to the oldest data available in the system”



“Go backwards for 3 hours”



“Go backwards for 1 hour”



“Go forwards for 1 hour”



“Go forwards for 3 hours”



“Jump to the latest data available in the system”

“Districts” can be chosen among 1) Hokkaido, 2) Tohoku, 3) Kanto, 4) The Metropolitan Area, 5) Tokai, 6) Chubu, 7) Kinki, 8) Chugoku/Shikoku, 9) Kyushu and 10) Okinawa. You can also move to the next district by clicking the arrows on the top/bottom or left/right side of the map in the center.

The districts where warning or alert has been issued are highlighted in yellow or red, respectively. Grid patterns in yellow or red represent the districts where warning or alert has been canceled.



Select Date & Time

2012 年 1 月 19 日 20 時



Select Districts

関東

See Table



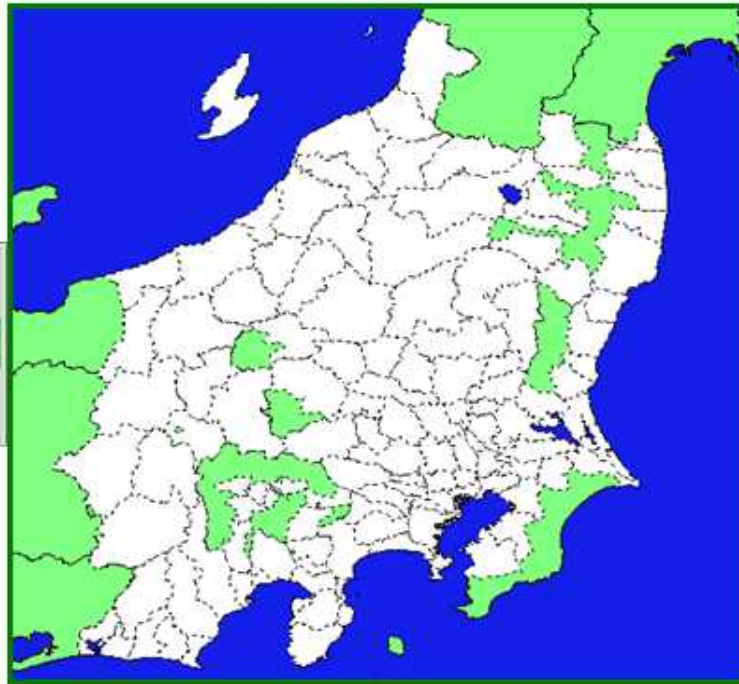
Table of Ox issuance



Ox Issuance Map

You can see maps and tables of warning and alert issued on oxidants from X of XX XXX 20XX to XX XX XXX 20XX.

Warning and Alert Issued on Oxidants



**Legend**

**注意報・警報状況**

- 注意報発令中
- 警報発令中
- 注意報解除
- 警報解除

**地域**

関東

**日時**

2012年01月19日20時

別ウィンドウで表示

※ Ox issuance areas and border between municipalities on the map are set at 1<sup>st</sup> April, 2010.