

EA Graphic Tools 2022

Users' Manual for

AMeDAS Station Browsing Tool

“StnFind”

Meteorological Data System Co. Ltd.

May, 2022

Remarks on the use of “the Graphic Tools 2022” for the Expanded AMeDAS Weather Data

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1 Outline of StnFind

1.1 What Is StnFind?

StnFind (Station Finder) is a small additional program provided by MDS with basic set of EA Weather data tools. StnFind's executable file is named "StnFind.exe".

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1.2 Functions of StnFind

This program has only one function. The function is to display each AMeDAS station's information as follows:

- Observed year (the following information may be different year by year),
- Name of the station in Roman characters (also in Kanji and Katakana characters if the OS environment allows),
- Latitude, longitude, and altitude of the station,
- Altitude of the anemometer from the ground level used for regulating wind velocity data (not identical with the altitude of actual installation of the anemometer),
- Located prefecture (and sub-prefecture in case of Hokkaido Prefecture) of the station,
- Period of data storage in the file (earliest data date and latest data date),
- Identified number of the station (permanent unique number), and
- Identified number of the station (serial record number of a compiled file) etc.

This is useful tool for retrieving such items for a station in which user is interested. The results of the retrieval can be copied on the clipboard to reduce some manual works such as for taking memo.

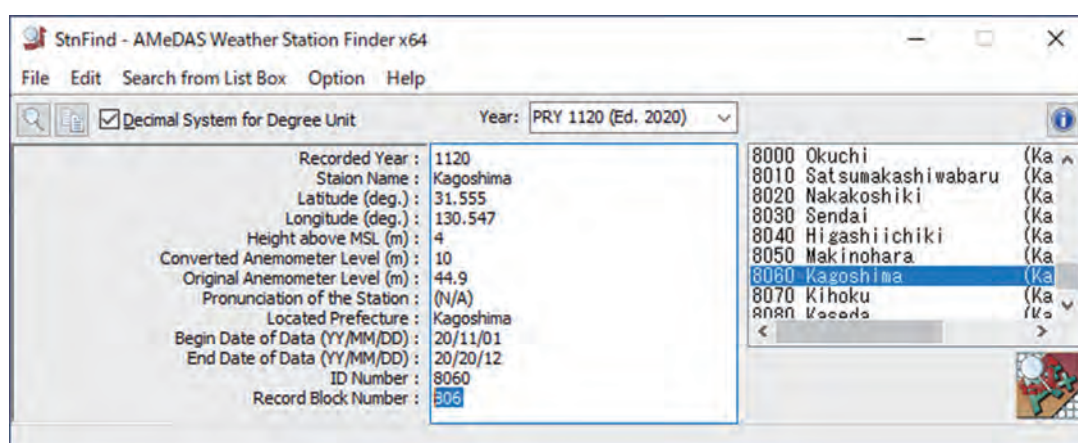


Fig. 1 Main window of StnFind

2 How-to-Use of StnFind

This program provides only simple functions and is easily operated without detailed explanation. Therefore, menus and speed buttons of the main window (see Fig.2) are explained in the following part.

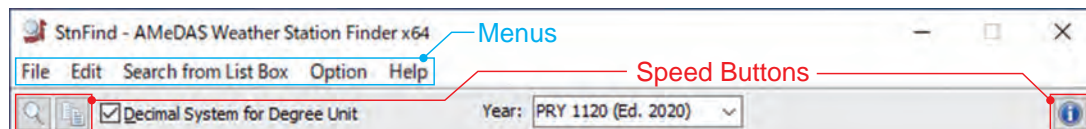


Fig. 2 Menu bar and speed buttons of StnFind

2.1 Operation of Menus

- File Menu (See Fig.3 (a))

There are two sub-menus under [File] menu. The first one, [File | Env. Set... Alt+S] sub-menu is a common menu for all the graphic tool programs installed as a suite. The function is to call a program EA.SetEnv2022 to set the environment for tools. The usage of that program is explained in the another manual[1].

The sub menu, [File | Exit (X) Alt+X] makes this program exited. There are another ways to make this program exited: double-clicking the program icon; and clicking the System icon

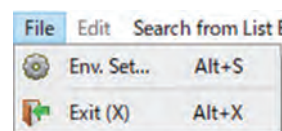
- Edit Menu (See Fig.3 (b))

The edit menus become selectable (enable) in case that the retrieval result was displayed after an AMeDAS station was selected using the AMeDAS station browsing sub window displayed by “Search Menus” described next.

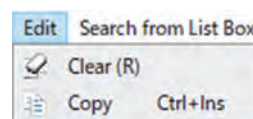
[Edit | Clear (R)] sub menu erases the retrieval result displayed in the main window.

[Edit | Copy Ctrl+Ins] sub menu copies the selected character strings of the retrieval result to the clipboard. This menu becomes selectable after some character strings of the retrieval result was selected and highlighted. Speed button has the same function as this menu.

(a) [File] menu



(b) [Edit] menu



(c) [Search] menu

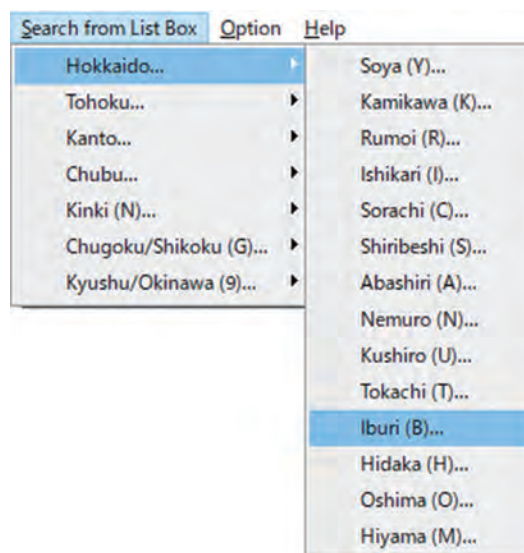


Fig. 3 Menus of StnFind (1/2)

- Search Menu (See Fig.3 (c))

As shown in the illustration, these menus are constituted with the district menus and their sub-menus that show prefecture or sub-prefectures under the district. Select a prefecture or sub-prefecture from these sub-menus, and then a new window displaying the prefecture or sub-prefecture map (the AMeDAS station browsing sub window) appears to retrieve the target AMeDAS station.

- Option Menu (Fig.3 (d))


These are the menus that control conditions such as the window position in the starting up of this program. According to these menus, registry data are manipulated.

[Option | Starting Options...] sub-menu displays the option dialog window to indicate states for the next startup.

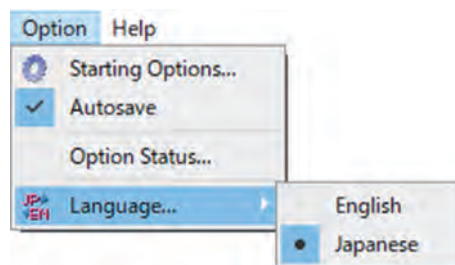
[Option | Autosave] sub-menu has the toggle-checkmark switch. Checkmark means that the current status parameters are saved as the registry data at the time of exiting this program and the parameters are restored at the next startup by loading the registry data. Such parameters are: ① Window Position at the exiting stage; ② Data which were found at the exiting stage; ③ Decimal degree option at the exiting stage; and ④ Path to `EA_Tools.dll`*¹.

[Option | Language...] has sub-menus of “English” and “Japanese” to change the display language. This menu is effective in case that this program is executed under the Japanese Edition of WINDOWS®. Excepting the Japanese Edition, this menu must be disabled and cannot be selected.

- Help Menu (See Fig.3 (e))

[Help | Browse the Usage...] sub-menu displays our company’s home page by your default HTML browser to get something new information on the programs. And, [Help | Version Info. (A) ...] sub-menu displays the version information dialog window, well-known as “About Dialog Box”. The same operation is available by clicking of the speed button .

(d) [Option] menu



(e) [Help] menu

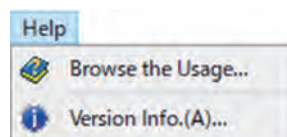





Fig. 3 Menus of StnFind (2/2)

2.2 Operation of Speed Buttons

There are three speed buttons located in the top panel of the main window of StnFind as follows:

-  Search Speed Button: This button makes the AMeDAS station browsing sub window displayed (see Fig.4).

*¹ This is important dynamic link library file for correct execution of StnFind. The file must be located in the fixed folder, which can be indicated by the sub window for option settings.

-  **Copy Speed Button**: This button copies the selected character strings of the retrieval result displayed in the main window. This button becomes selectable (enabled) after the character strings of the retrieval result are selected and highlighted. This function is the same as the menu operation of [Edit | Copy Ctrl+Ins].
-  **Information Speed Button**: This button shows the version information dialogue window (“about” dialog box). The same operation can be done by selecting [Help | Version Info. (A)...] menu.

2.3 Dialog Window for AMeDAS Station Browsing

The dialog window to be explained here is shown in Fig.4.

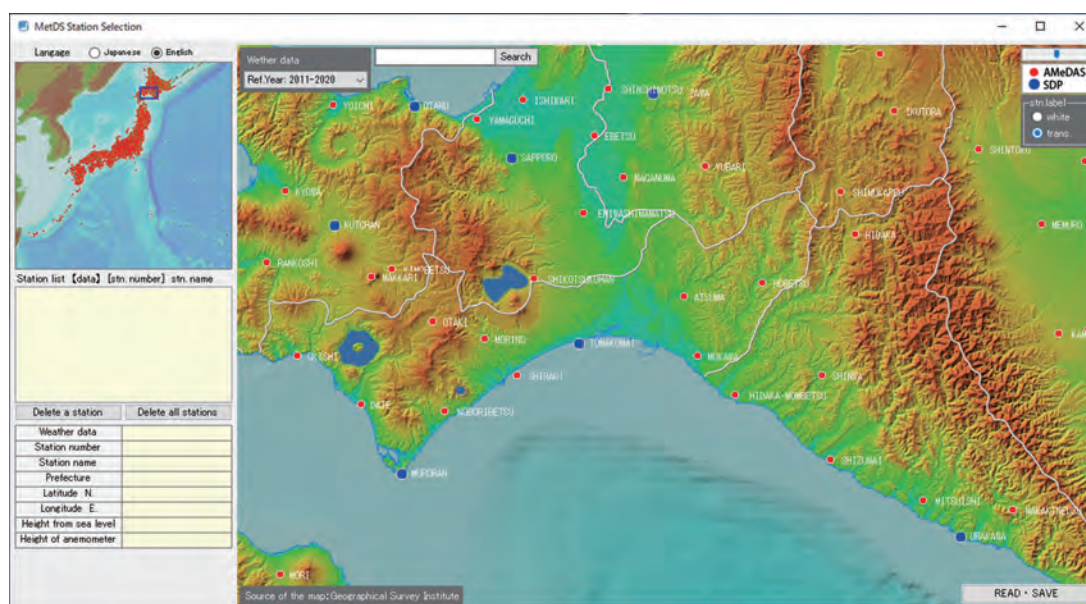


Fig. 4 Dialog Window for AMeDAS Station Browsing in StnFind

To select an AMeDAS station, click one of the labels displayed in the map or click “●” mark. This window accepts several stations selection. However StnFind just pick up the last selected station only. Selecting a station from the combo-list box labeled [Location] is also available.

As seen in Fig.4, the map dialog window has a drop-down list box to select the AMeDAS stations' generation. But don't use this function. Use the similar list box located in the main window of StnFind illustrated in Fig.1 and Fig.2 should be used to select the generation.

2.4 Dialog Window for Option Settings

This window is illustrated in Fig.5 and used for setting the startup status and/or the path for EA.Tools.dll. Clicking the center button labeled [Use Default] makes all of the settings default. When the left button labeled [Save & Exit] is clicked, the set status parameters are saved as the registry data and this program exits automatically.

The dialog window shown in Fig.6 can be called by selecting [Option | Option Status...] menu. This dialog window is available to check the present status of parameters.

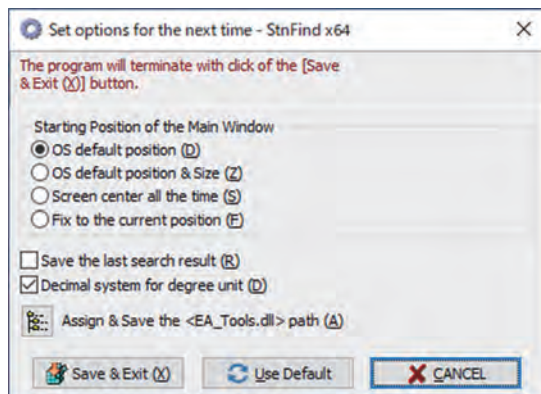


Fig. 5 Dialog Window for Option Settings in StnFind

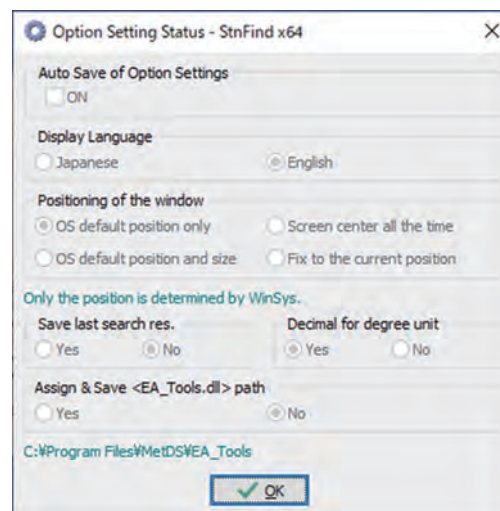


Fig. 6 Dialog Window for Option Confirmation in StnFind

3 Miscellaneous Remarks

This program makes the registry keys at the initial startup. The registry data are read and written by this program at every startup. However, this program does not have a function to delete the registry keys. If you need to uninstall this program manually, erase only the key named [StnFind] and do not touch any other keys. Wrong operation for the other keys may avoid normal working of programs installed at the same time.

HKEY_CURRENT_USER\Software\MetDS\EA_Tools\StnFind

The dynamic link library file named EA_Tools.dll must exist in a folder indicated as the registry data of "DllPath" for correct execution of StnFind.

References

- [1] MetDS: EA Graphic Tools 2022 General Users' Manual with a Manual of the Environment Setting Program, EA_SetEnv2022, Meteorological Data System Co. Ltd. (Kagoshima, e-book), 2022.5.

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EA Graphic Tools 2022
Users' Manual for
AMeDAS Station Browsing Tool
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May 31, 2022 Ed.1, Rev.1

Written and Edited by

Printed and Published by

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