



**ABC**

***Release 2.5.2***

**CCOM/JHC, UNH**

**Jan 10, 2026**



# CONTENTS

<b>1</b>	<b>In Brief</b>	<b>3</b>
<b>2</b>	<b>User Manual</b>	<b>5</b>
<b>3</b>	<b>Developer’s guide</b>	<b>9</b>
<b>4</b>	<b>License</b>	<b>11</b>
<b>5</b>	<b>Credits</b>	<b>15</b>







**IN BRIEF**



The ABC package provides common elements for HydrOffice libraries and applications.





## USER MANUAL

### 2.1 Info Tab

The Info Tab contains numerous helpful links and utilities:

- The homepage
- The Online User Manual
- The Offline User Manual (PDF)
- License Information
- Authors List
- NOAA S-57 Support Files for CARIS
- The HydrOffice Main Page
- The Center for Coastal and Ocean Mapping Main Page
- The University of New Hampshire Main Page

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#### 2.1.1 NOAA S-57 Support Files for CARIS

These allow for use of customized S-57 attributes in CARIS software and are required in order to visualize many of the S-57 (.000) outputs.

To install them, follow these instructions:

- Click the button on the Info Tab for the **NOAA S57 Support Files** (see [Fig. 2.1](#)).
- Click the button to unzip the archive (see [Fig. 2.2](#)).
- Click the button to copy the folder (see [Fig. 2.2](#)). If the folder is already found, you will be prompted whether or not you wish to force a re-copy.
- Click the button to install the files (see [Fig. 2.2](#)). Note this step requires Administrator privileges.

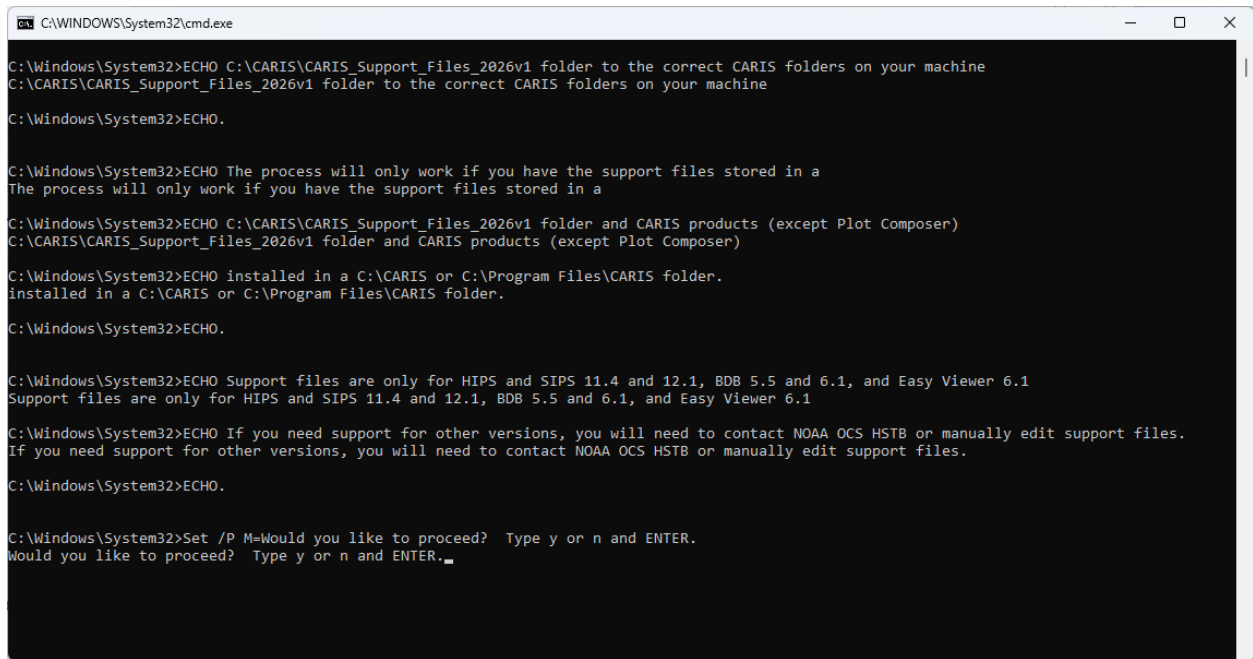


Fig. 2.1: The **Info** tab with the **NOAA S57 Support Files** button.



Fig. 2.2: The **NOAA S57 Support Files** widget.

- Follow the prompts in the Windows shell to complete the installation (see Fig. 2.3).



```
C:\WINDOWS\System32\cmd.exe

C:\Windows\System32>ECHO C:\CARIS\CARIS_Support_Files_2026v1 folder to the correct CARIS folders on your machine
C:\CARIS\CARIS_Support_Files_2026v1 folder to the correct CARIS folders on your machine

C:\Windows\System32>ECHO.

C:\Windows\System32>ECHO The process will only work if you have the support files stored in a
The process will only work if you have the support files stored in a

C:\Windows\System32>ECHO C:\CARIS\CARIS_Support_Files_2026v1 folder and CARIS products (except Plot Composer)
C:\CARIS\CARIS_Support_Files_2026v1 folder and CARIS products (except Plot Composer)

C:\Windows\System32>ECHO installed in a C:\CARIS or C:\Program Files\CARIS folder.
installed in a C:\CARIS or C:\Program Files\CARIS folder.

C:\Windows\System32>ECHO.

C:\Windows\System32>ECHO Support files are only for HIPS and SIPS 11.4 and 12.1, BDB 5.5 and 6.1, and Easy Viewer 6.1
Support files are only for HIPS and SIPS 11.4 and 12.1, BDB 5.5 and 6.1, and Easy Viewer 6.1

C:\Windows\System32>ECHO If you need support for other versions, you will need to contact NOAA OCS HSTB or manually edit support files.
If you need support for other versions, you will need to contact NOAA OCS HSTB or manually edit support files.

C:\Windows\System32>ECHO.

C:\Windows\System32>Set /P M=Would you like to proceed? Type y or n and ENTER.
Would you like to proceed? Type y or n and ENTER. _
```

Fig. 2.3: The Windows shell triggered by the **NOAA S57 Support Files** widget.



## DEVELOPER'S GUIDE

### 3.1 How to Contribute

Every open source project lives from the generous help by contributors that sacrifice their time and this is no different. To make participation as pleasant as possible, this project adheres to the [Code of Conduct](#) by the Python Software Foundation.

Here are a few hints and rules to get you started:

- Add yourself to the [AUTHORS.txt](#) file in an alphabetical fashion. Every contribution is valuable and shall be credited.
- If your change is noteworthy, add an entry to the [changelog](#).
- No contribution is too small; please submit as many fixes for typos and grammar bloopers as you can!
- Don't *ever* break backward compatibility.
- *Always* add tests and docs for your code. This is a hard rule; patches with missing tests or documentation won't be merged. If a feature is not tested or documented, it does not exist.
- Obey [PEP 8](#) and [PEP 257](#).
- Write [good commit messages](#).
- Ideally, [collapse](#) your commits, i.e. make your pull requests just one commit.

#### Note

If you have something great but aren't sure whether it adheres – or even can adhere – to the rules above: **please submit a pull request anyway!** In the best case, we can mold it into something, in the worst case the pull request gets politely closed. There's absolutely nothing to fear.

Thank you for considering to contribute! If you have any question or concerns, feel free to reach out to us (see [Credits](#)).

## 3.2 How to release

### 3.2.1 Documentation

The documentation is built using `sphinx`:

- `pip install sphinx sphinx-autobuild`

To create the documentation in html format:

- `make html`

To create the documentation in PDF format:

- `make latexpdf`

### 3.2.2 PyInstaller

From the root folder, run the command:

- `pyinstaller --clean -y freeze\ABC.1\folder.spec`

For the *ABC.spec* files, you need to verify that the following parameters are passed to the `EXE()` function:

- `console=False`: to avoid that a console window is opened at run-time for standard I/O
- `debug=False`: to avoid that the boot-loader issues progress messages while initializing and starting the bundled app

### 3.2.3 PyPi

Some instructions can be found [here](#):

- `pip install --upgrade build`
- `python -m build`
- `pip install --upgrade twine`
- `twine upload --repository pypi dist/*`

Remember to set the API token in the *.pyprc* setup file.

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*Version 3, 29 June 2007*

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## CREDITS

For bugs and feature requests: [abc@hydrooffice.org](mailto:abc@hydrooffice.org)

Feel free to contact us for comments and suggestions:

- [Giuseppe Masetti](#)

### Note

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