



**ABC**

*Release 2.3.0*

**CCOM/JHC, UNH**

Jan 28, 2024



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**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

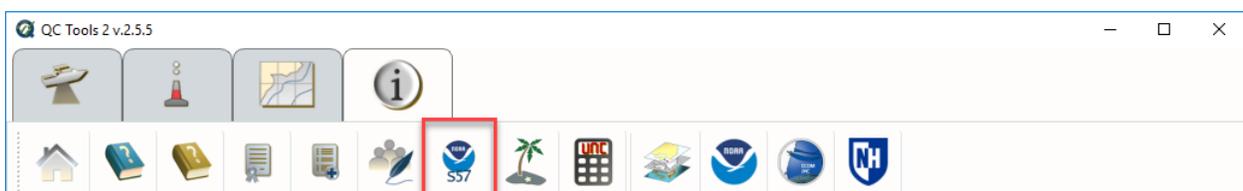
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#### 2.1.1 NOAA S-57 Support Files for CARIS

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.

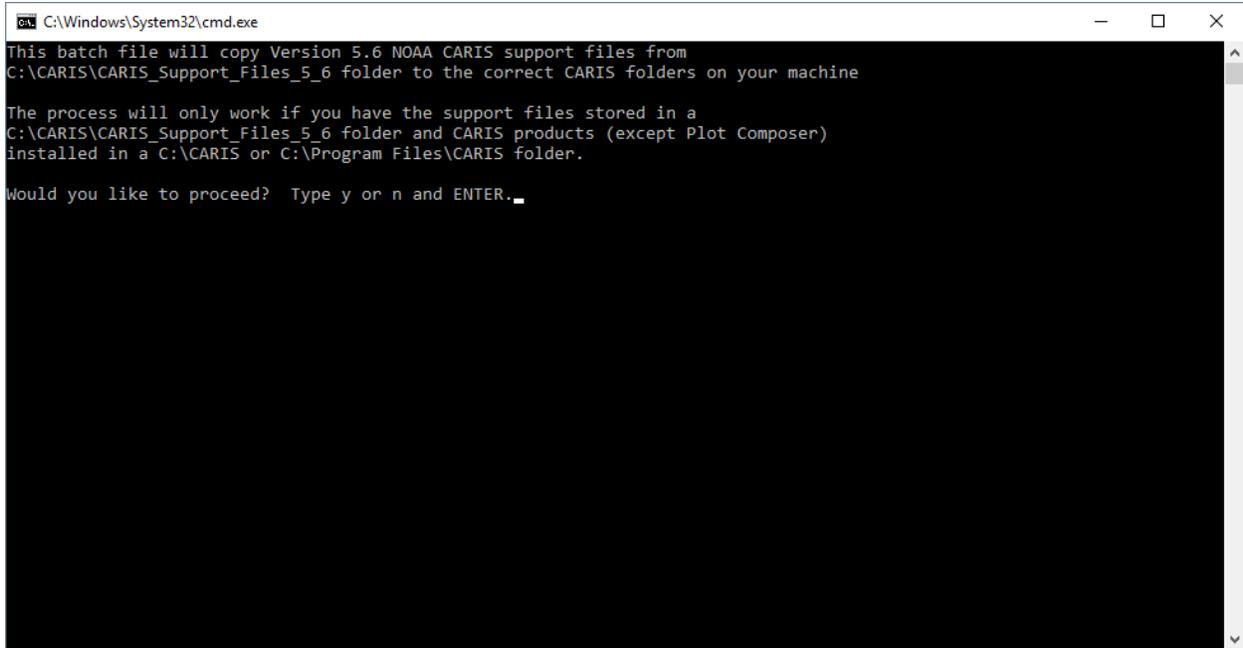
To install them, follow these instructions:

- Click the button on the Info Tab for the **NOAA S57 Files**.





- Click the button to unzip the archive.
- Click the button to copy the folder. 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. Note this step requires Administrator privileges.
- Follow the prompts in the Windows command to complete the installation.



```
C:\Windows\System32\cmd.exe
This batch file will copy Version 5.6 NOAA CARIS support files from
C:\CARIS\CARIS_Support_Files_5_6 folder to the correct CARIS folders on your machine

The process will only work if you have the support files stored in a
C:\CARIS\CARIS_Support_Files_5_6 folder and CARIS products (except Plot Composer)
installed in a C:\CARIS or C:\Program Files\CARIS folder.

Would you like to proceed? Type y or n and ENTER._
```



## 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.

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**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.

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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.1folder.spec`

For the *ABC.1folder.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`
- `py -m build`
- `pip install --upgrade twine`
- `twine upload --repository pypi dist/*`

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

## LICENSE

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*Version 3, 29 June 2007*

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CHAPTER  
FIVE

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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](#)

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