

# SeaSTAR Documentation

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**Abstract**

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# 1 Installing SeaSTAR

The easiest way to install SeaSTAR is via PyPI into a Python Virtual Environment:

```
1 [~]$ python3 -m venv seastarvenv
2 [~]$ source ~/seastarvenv/bin/activate
3 (seastarvenv) [~]$ pip install seastartool
```

Whenever you are using SeaSTAR like this, you need to first enable the Virtual Environment with the `source ~/seastarvenv/bin/activate` command. You should now be able to run the SeaSTAR CLI as so:

```
1 (general_venv) [docs]$ seastar
2
3 SeaSTAR
4 Sea-faring System for Tagging, Attribution and Redistribution
5
6 Copyright 2025, A Baldwin <alewin@noc.ac.uk>, National Oceanography Centre
7 This program comes with ABSOLUTELY NO WARRANTY. This is free software,
8 and you are welcome to redistribute it under the conditions of the
9 GPL version 3 license.
10
11 ERROR
12 No command specified
13
14 Common usage:
15
16 seastar --gui                Launch the SeaSTAR GUI
17 seastar <job_name> [flags]   General structure
18
19 With any SeaSTAR job you can use --logfile <file_path> to send all log output
20 to a file in addition to the console. This log output will also include the date
21 and time, along with all arguments used to invoke SeaSTAR.
22
23 Use "seastar <job_name> --help" to get specific help for a given job.
24 The following jobs are available:
25
26 ecotaxa_to_crab              EcoTaxa to CRAB compatible upload
27
28     Creates CRAB compatible parquet files for uploading images or updating
29     annotations in CRAB.
30
31 ifcb_v4_features             IFCB feature extractor (WHOI v4 compatible)
32
33     Extracts morphological feature information from raw IFCB data. Is
34     compatible with outputs of the V4 WHOI classifier.
35
36 ifcb_to_ecotaxa              EcoTaxa IFCB Data Import
37
38     Creates EcoTaxa TSV or ZIP files for uploading images or updating metadata
39     from raw IFCB data, and/or morphological feature files.
```