easy_coloc Documentation

Release 1.0

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Contents

easy_coloc uses the ESMF library to project gridded data, such as Ocean General Circulation Model outputs onto observations. Observation points can be provided in a csv or gridded netcdf file. Gridded outputs can then be projected onto the observation space using the ESMF locstream procedure.

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1.1 Installation

1.1.1 Requirements

easy_coloc requires ESMF/ESMPy which can be installed with:

```
conda install -c conda-forge esmpy
```

as well as the following packages:

```
conda install xarray numpy pandas
```

1.1.2 Latest stable with pip

For the latest stable build, use:

```
pip install easy_coloc
```

1.1.3 Installation from github

For the development version, use:

```
git clone https://github.com/raphaeldussin/easy_coloc.git
cd easy_coloc
python setup.py install
```

1.2 Testing easy_coloc

In the examples sections, there is a notebook to test the regridding of World Ocean Atlas temperature onto the AR07W section. You can run it either locally (after install) or with binder (no install) using the binder button on the github page easycoloc_github.