Prerequisite to run PRIDE PPP-AR

The supporting software packages which should be installed prior to PRIDE PPPAR installation includes **gfortran**(subroutine of **gcc**), **wget**, **python3** and **gfzrnx**. **python3** is unnecessary if you wouldn't use PRIDE PPPAR's plotting toolkit. **gfzrnx** is also not needed if you don't need multi-day processing functions. You can compile their source code or download their installation packages from the Mac terminal or the Linux shell.

1. URLs where you can find the supporting software

wget: https://ftp.gnu.org/gnu/wget/ gcc: https://ftp.gnu.org/gnu/gcc/

gfortran for Mac: https://github.com/fxcoudert/gfortran-for-macOS/releases

python3: https://www.python.org/downloads/source/

gfzrnx: https://gnss.gfz-potsdam.de/services/gfzrnx/download

Especially, for gfzrnx, you need to rename the downloaded executable to 'gfzrnx'. If you want to be able to use this program in any directory, you can move it to the '/usr/bin' directory, such as

mv gfzrnx_1.15-8044_osx_intl64 gfzrnx chmod +x gfzrnx sudo mv gfzrnx /usr/bin/

2. Install the supporting software from the Mac terminal (Bold and italics indicate commands running at the terminal)

Step 1: intsall 'brew' on your mac

China's domestic mirrors

/bin/zsh -c "\$(curl -fsSL

https://gitee.com/cunkai/HomebrewCN/raw/master/Homebrew.sh)"

Official mirrors

/bin/bash -c "\$(curl -fsSL

https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"

Step 2 (optional): change permissions to the '/usr/local' directory if necessary

sudo chmod -R 777 /usr/local/

Step 3: install gcc, wget and python3
brew install gcc
brew install wget
brew install python3

Step 4: Install matplotlib module of pyhton3

pip3 install matplotlib