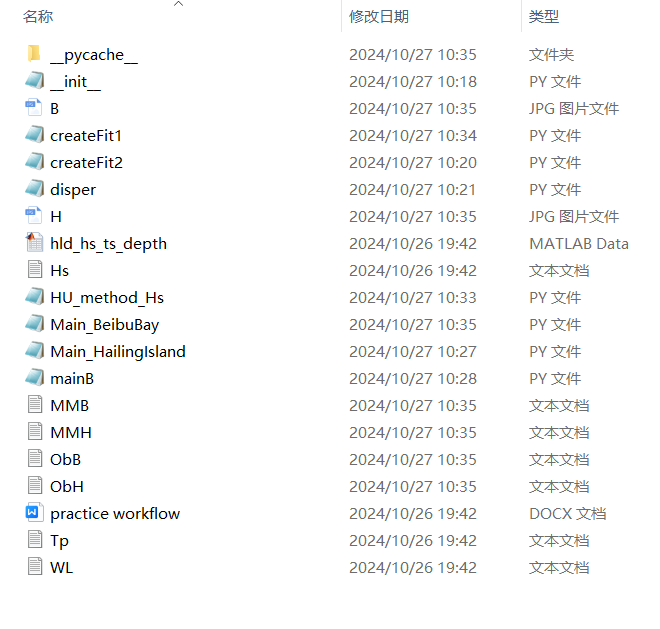
**Read-Me for Python Files:**

The Python scripts are created in eclipse-PyDev-python3.12.

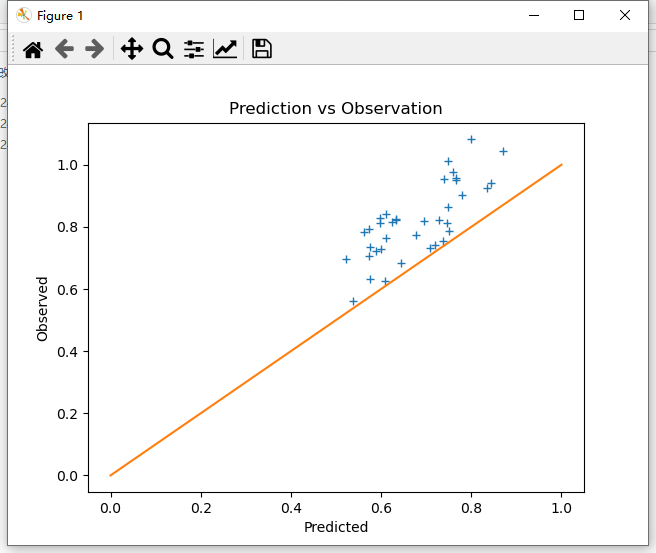
The input data consists of three text files (*Hs.txt*, *Tp.txt*, *WL.txt*) and one .mat file (*hld\_hs\_ts\_depth.mat*). The auxiliary functions *createFile1.py*, *createFile2.py*, *disper.py*, and *HU\_method\_Hs.py* (which uses *createFile2.py* and *disper.py*) handle specific data tasks.

Two examples, BeibuBay and HailingIsland, are given. The main function, *Main\_BeibuBay.py*, which utilizes *createFile1.py*, *disper.py*, and *HU\_method\_Hs.py*, processes the data, generates two text files (*MMB.txt* and *ObB.txt*), and returns *R* and *RMSE* value. Meanwhile, a plot of measured and observed relative wave heights is output (Figures 1 and 2).

Similarly, the main function *Main\_HailingIsland.py* operates in the same way as *Main\_BeibuBay.py*, generating *MMH.txt* and *ObH.txt* files, a plot, and the *R* and *RMSE* values (as shown in Figures 3 and 4).

**Main\_BeibuBay：**

Figures 1

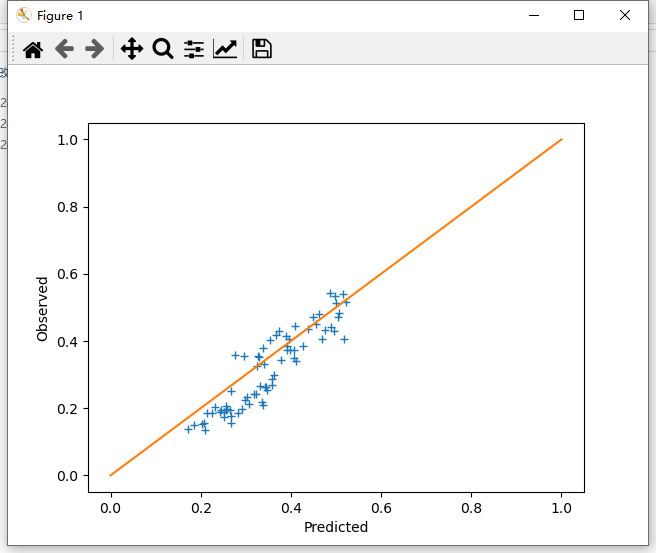


Figures 2



**Main\_Hailinglsland：**

Figures 3



Figures 4



**Read-Me for Matlab Files:**

The Matlab scripts are created in Matlab 2021a.

Usage of the scripts are as the same as Python scripts. Run *Main\_BeibuBay.m* and *Main\_HailingIsland.m*. These M files are commented to assist further use.