S k-means program notes

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# Main program

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| Scripts | Descriptions |
| kmean.py | main program of k-means algorithm, with four options of classification, i.e., S-SIM, COR, ED, MD  self-standing, one can run the rest directly, i.e., > python kmean.py |
| main\_kmean.py | script to wrap up kmean.py for three test problems. |

# Input data

|  |  |
| --- | --- |
| Script | Descriptions |
| SLP\_DJF.nc | main program of k-means algorithm, with four options of classification, i.e., S-SIM, COR, ED, MD  self-standing, one can run the rest directly, i.e., > python kmean.py |
| AM\_t\_1950\_y.nc | script to wrap up kmean.py for three test problems. |
| TC\_ll.nc |  |

# Output data

../output\_20220318/AM\_t\_1950\_y/00/n02/rand

../output\_20220318/AM\_t\_1950\_y/ed\_sim\_btw.nc

# Plotting

Scripts for plotting

1. Plot weather map from simulation WP
2. Plot climate change from CC
3. Plot tropical cyclone from TC

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|  | Description |
| **plot\_fig02\_S-Ds.py** | Plot fig 02 in the manuscript |
| **plot\_fig03\_WP.py** |  |
| **plot\_fig04\_cc.py** |  |
| **plot\_fig05\_tc.py** |  |
| **plot\_fig0607\_gen\_res.py** |  |
| **plot\_chord.py** **plot\_fig08-10\_CUD.py** |  |
| **write\_docx.py** |  |