HW3-The practice of Constructing Error Covariance and Correlation

There is a WRF output of ensemble member #1 and appended some variables from others ensemble member. Nineteen points were selected, including the three points of concern in the case and sixteen points located in areas with greater spread near the front and cyclone.

Please **use three points** construct point error covariance and point error correlation **COV (U, U) , COV(V,V) , COV(V, U), CORR(U, U), CORR(V,V) and CORR(V,U)** at the 925hPa. Please observe the difference between the point error covariance and correlation maps.

Data path:
https://drive.google.com/drive/folders/16xzxR5rBc8i0nIrHUepPeyuvbu5etk-T?usp=share_link

⇨ 20180908_0400_d03_noda.nc (data ~378 MB)
⇨ demo.py (Example of reading the file and plotting: wind, ensemble spread)
⇨ intro.pdf (Index and actual locations of the points & variable explanations)