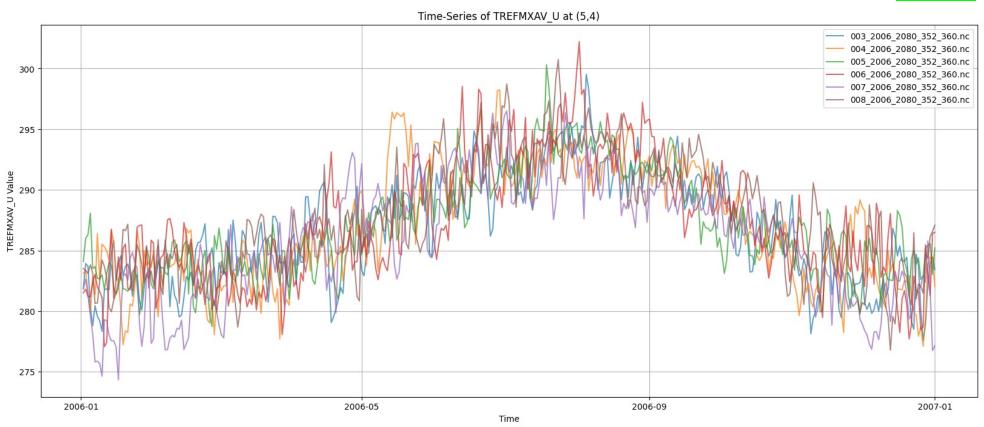
# EART60702: Earth and Environmental Data Science Project 2

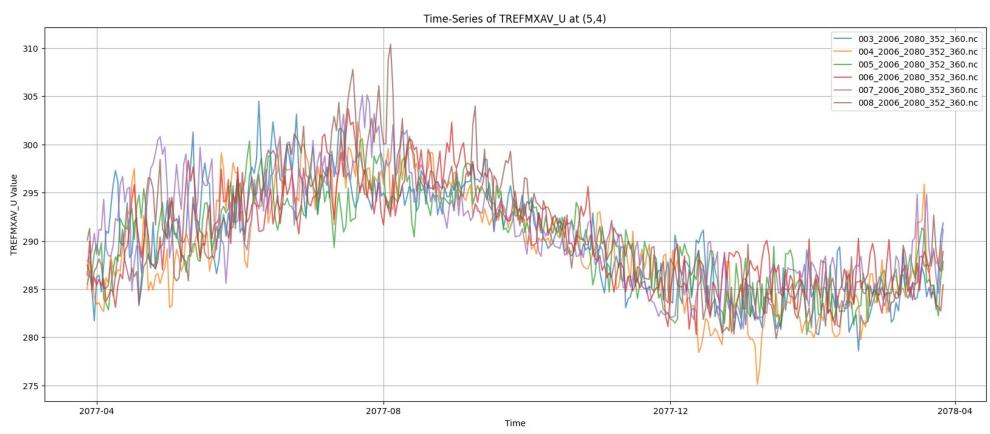
Sanghoon Choi 10327738

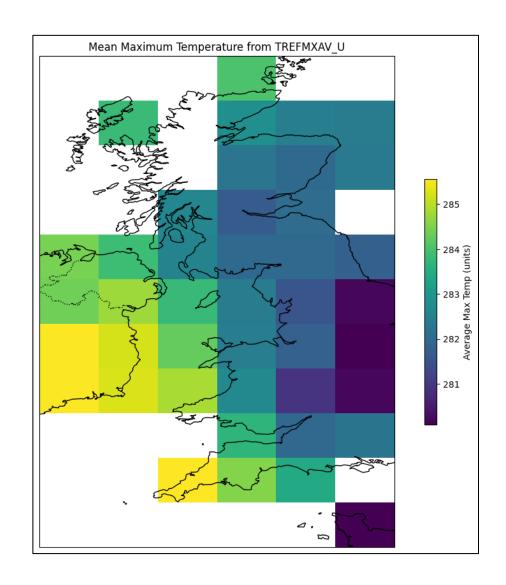
Variable Name	Explanation
TREFMXAV_U	Urban daily maximum of average 2-m temperature
FLNS	Net longwave flux at surface
FSNS	Net solar flux at surface
PRECT	Total (convective and large-scale) precipitation rate (liq + ice)
PRSN	Snowfall_flux
QBOT	Lowest model level water vapor mixing ratio
TREFHT	Reference height temperature
UBOT	Lowest model level zonal wind
VBOT	Lowest model level meridional wind
lat	Latitude
lon	Longitude

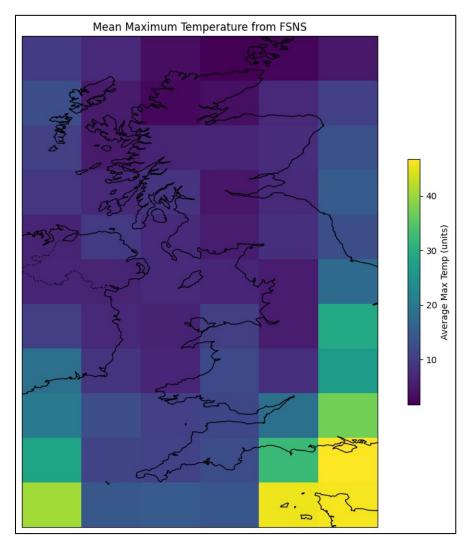


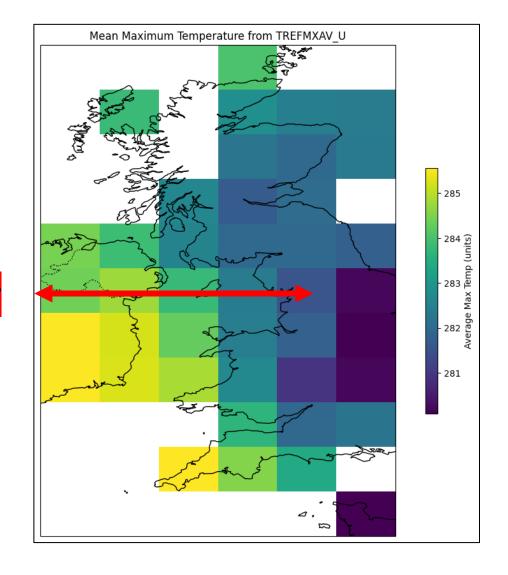


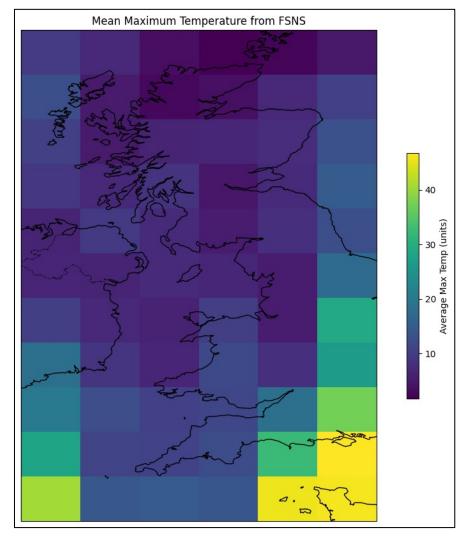






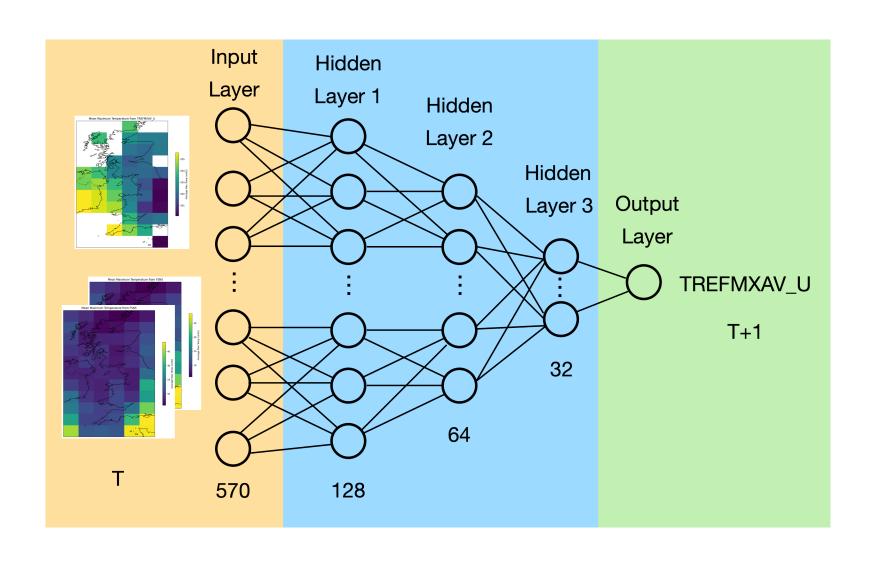




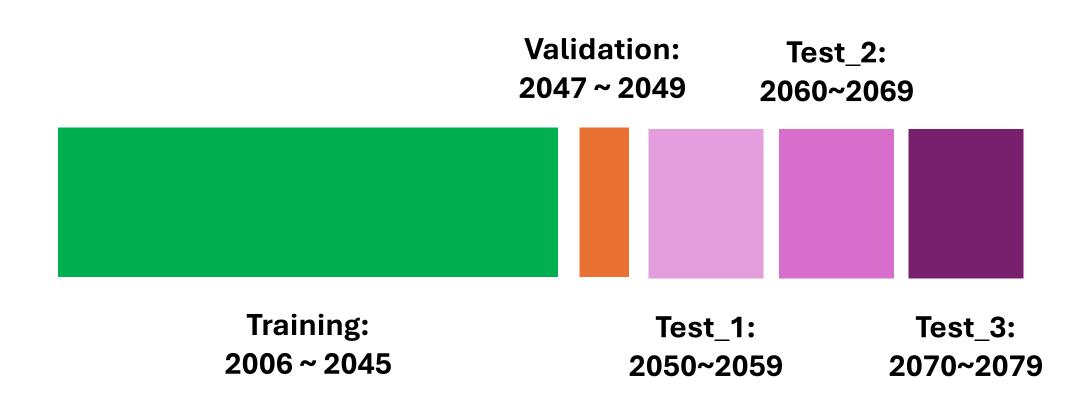




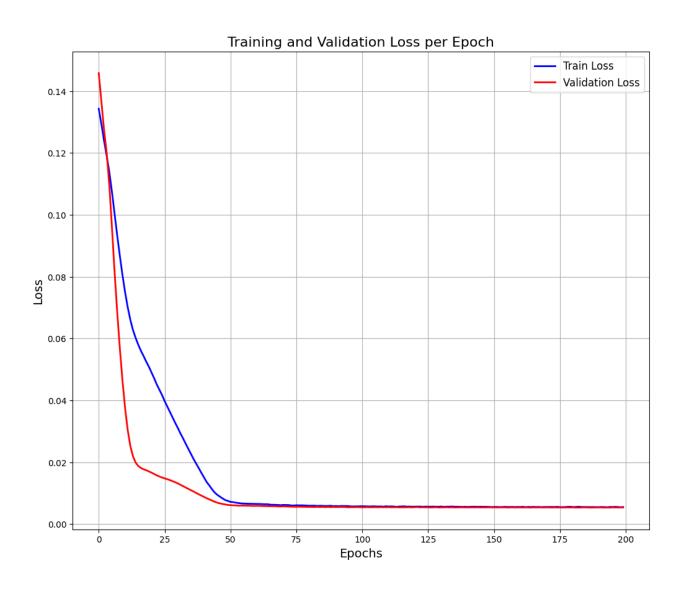
## **Model - DNN**



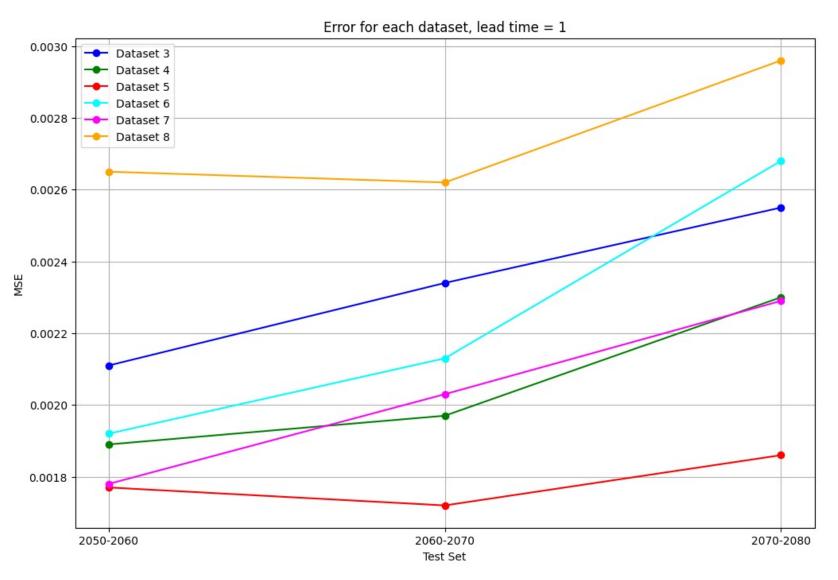
#### **Train**



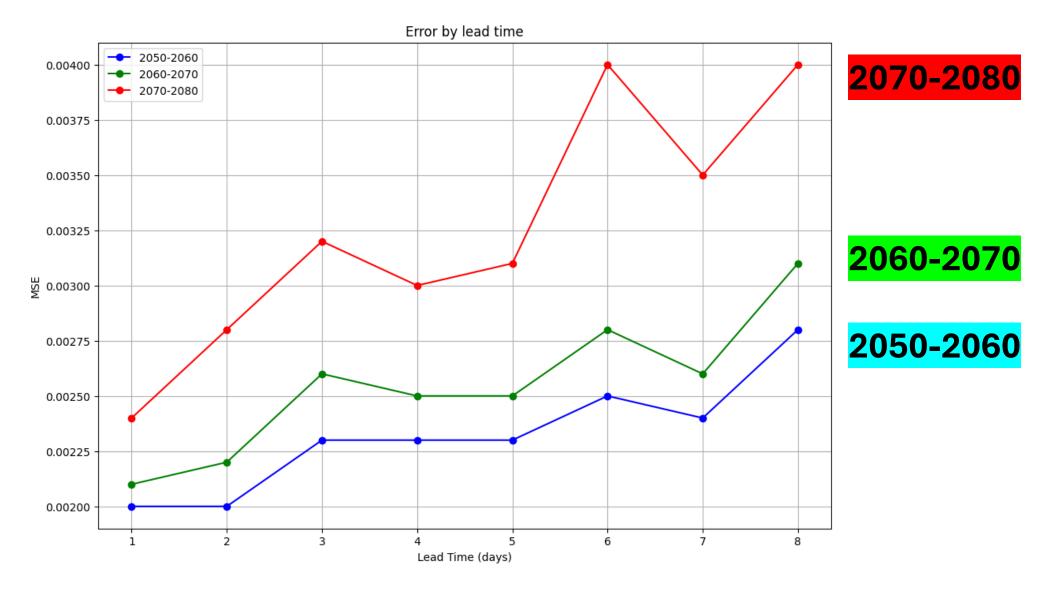
# **Train**



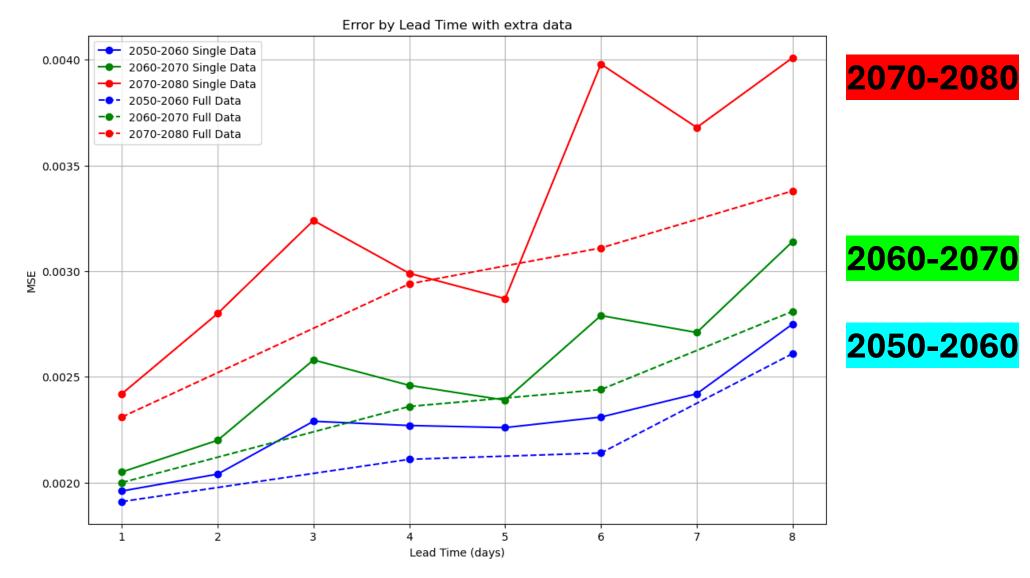
# Result - 1



# Result - 2



#### Result - 3



#### Conclusion

- DNN approach works for TREFMXAV\_U prediction
- Each ensemble member shows different prediction
- Lower performance for future climate
- Use of multiple scenarios for training was helpful