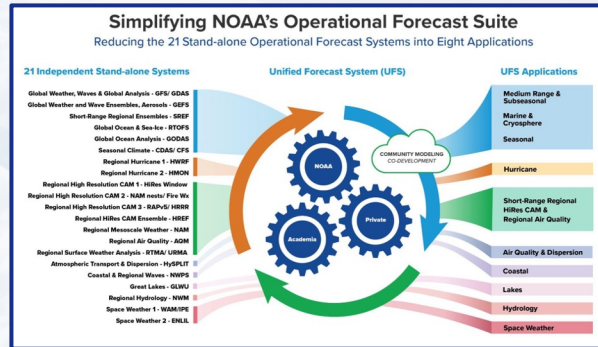


# Expanding the UFS to Include the MPAS Dycore

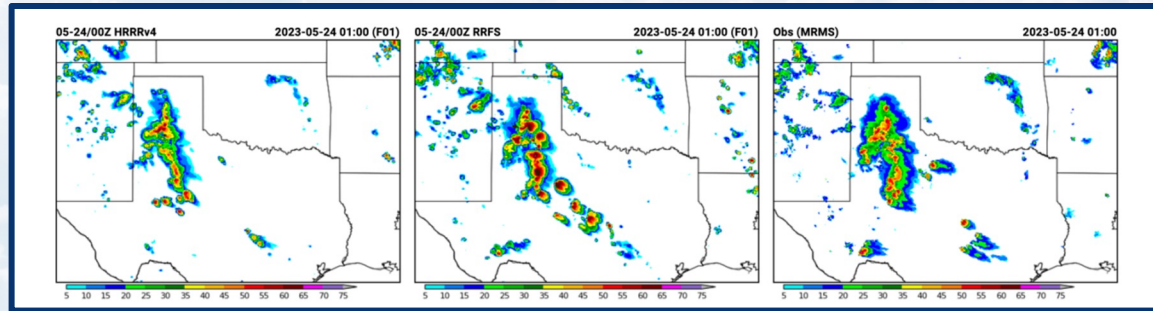
Ligia Bernardet, Dom Heinzeller, Jun Wang, Kevin Viner, Dustin Swales, Dan Rosen

**Unified Forecast System:**  
a community model used for  
NOAA operations

**Three-km applications  
face some challenges  
traced to dynamical core**



Uccellini et al., (2022)



Carley et al. (2023)

**Impetus to explore MPAS dycore within the UFS (like in NCAR CAM-SIMA)**  
How would we do that? And what are the challenges?