**Results:**

2 parameters -- kernel size, layers -- 6 values

1. **hidden\_layers=0, kernel\_size=2,**

===================Results for combined\_decomposed\_drop\_temp\_all\_norm\_1980\_2018.csv ==================================

v10m causes u10m with a delay of 0 time steps.

u10m causes v10m with a delay of 0 time steps.

========================================================================

([[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,1,0,0,0,0],

[0,0,0,0,0,0,1,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0]])

1. **hidden\_layers=0, kernel\_size=4,**

===================Results for combined\_decomposed\_drop\_temp\_all\_norm\_1980\_2018.csv ==================================

Precip causes HFLX with a delay of 0 time steps.

v10m causes HFLX with a delay of 0 time steps.

CW causes LW with a delay of 0 time steps.

GH causes SLP with a delay of 0 time steps.

SLP causes Precip with a delay of 0 time steps.

v10m causes u10m with a delay of 0 time steps.

u10m causes v10m with a delay of 0 time steps.

SW causes CW with a delay of 0 time steps.

SLP causes GH with a delay of 0 time steps.

========================================================================

([[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,1,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,1,0,0,0,0,0,0,1],

[1,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,1,0,0,0,0],

[1,0,0,0,0,0,1,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,1,0,0,0,0,0,0,0,0,0],

[0,0,0,1,0,0,0,0,0,0,0,0]])

1. **hidden\_layers=0, kernel\_size=6,**

===================Results for combined\_decomposed\_drop\_temp\_all\_norm\_1980\_2018.csv ==================================

v10m causes u10m with a delay of 0 time steps.

========================================================================

([[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,1,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0]])

1. **hidden\_layers=1, kernel\_size=2,**

===================Results for combined\_decomposed\_drop\_temp\_all\_norm\_1980\_2018.csv ==================================

GH causes LW with a delay of 0 time steps.

SLP causes LW with a delay of 0 time steps.

v10m causes u10m with a delay of 0 time steps.

========================================================================

([[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,1,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,1,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,1,0,0,0,0,0,0,0,0,0]])

1. **hidden\_layers=1, kernel\_size=4,**

===================Results for combined\_decomposed\_drop\_temp\_all\_norm\_1980\_2018.csv ==================================

========================================================================

→ no results… (zero matrix)

([[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0]])

1. **hidden\_layers=1, kernel\_size=6,**

===================Results for combined\_decomposed\_drop\_temp\_all\_norm\_1980\_2018.csv ==================================

========================================================================

→ no results… (zero matrix)

([[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0],

[0,0,0,0,0,0,0,0,0,0,0,0]])