Size of blocking events: Scaling law & future changes
NASA MAP 80NSSC17K0266 (PI: Pedram Hassanzadeh)

• We showed that blocking events will get larger under climate change, particularly in Northern Hemisphere summers

• Larger blocks can exacerbate the impacts of future weather extremes, particularly heat waves

• We derived & validate a scaling law for blocking area $A$, showing that $A$ scales with the mean jet’s width, speed & latitude

• The scaling law helps with better understanding blocks & better evaluating the models’ capabilities to simulate blocking variability