

Predictive System

Aim 1: Forecast

From preceding conditions can we forecast a value ahead of time? This requires us to learn the relationship between the previous conditions and the current conditions.

Goal: Predictive Accuracy

Challenge: Are we reproducing / competing with physically based models?







Predictive System

Aim 2: Identify Correlations

Can we use the high dimensional fields (SST, SLP) to identify connections between remote regions in space and time.

Goal: Identify climate drivers of variability from data

Challenge: Crazy high dimensions (atmospheric levels [z], geographic regions [x,y], lagged in time, multiple variables - 5D space)



