

Developing a Deep Learning Model to Predict ATMS Brightness Temperatures on Land Rida Khan Mentor: Dr. Xingming Liang

control

- Deep neural network to predict 22 ATMS channels of brightness temperatures (using CRTM simulation as reference) using 210 input features
- Model architecture, learning rate, activation functionUsed data preprocessing for input data quality
- Examine model results with difference BTs on global map and results across 22 channels
- 97% accuracy and mean within [-0.2,0.2] and SD within [0.2,0.4]





