What Drives Atlantic Climate Variability?

The Atlantic climate undergoes multi-decadal swings that impact rainfall and temperature in North America, Europe, and Africa. The causes of these swings are currently unknown. This project will test the hypothesis that atmospheric circulation and clouds are responsible for these climate changes and their impacts. The student will use a hierarchy of climate models and observational datasets to test this hypothesis.

This figure shows how the Atlantic surface ocean temperature has changed over the last century from observations (left) and models (right).

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