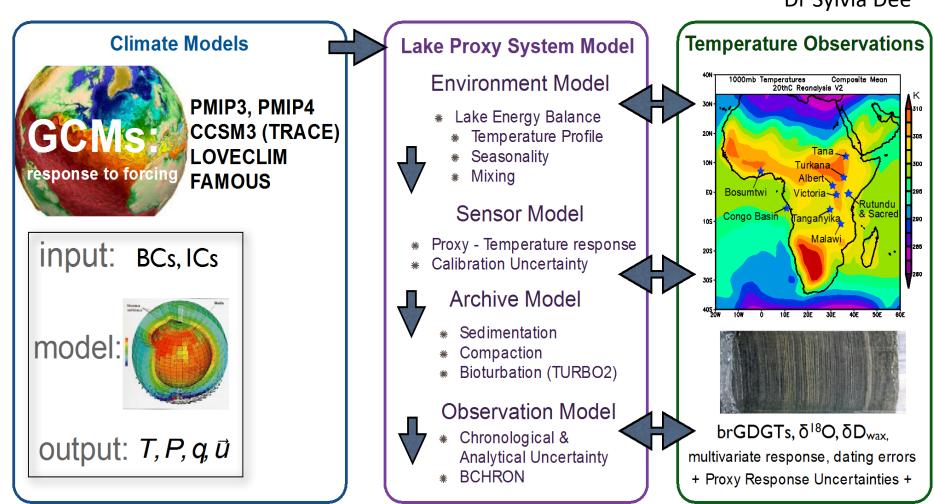


Proxy System Modeling: Characterizing Uncertainty in Proxy Records Climate Data-Model Integration



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Used for:

Lake level, temperature, mixing, salinity, lake water and CaCO3 isotopes (need isotope-enabled model), leaf wax dD (need isotopes + veg)

Flood deposits?

Inputs:

Climate-model-grade inputs of surface mass and energy fluxes Lake characteristics and sed rate information

Value:

Characterize and quantify multiple sources of uncertainty of reconstruction (chronologic, proxy calibration, environmental and sedimentary modification of proxy)

Sensitivity testing of proxy to climate (perturbation experiments) Data-model integration