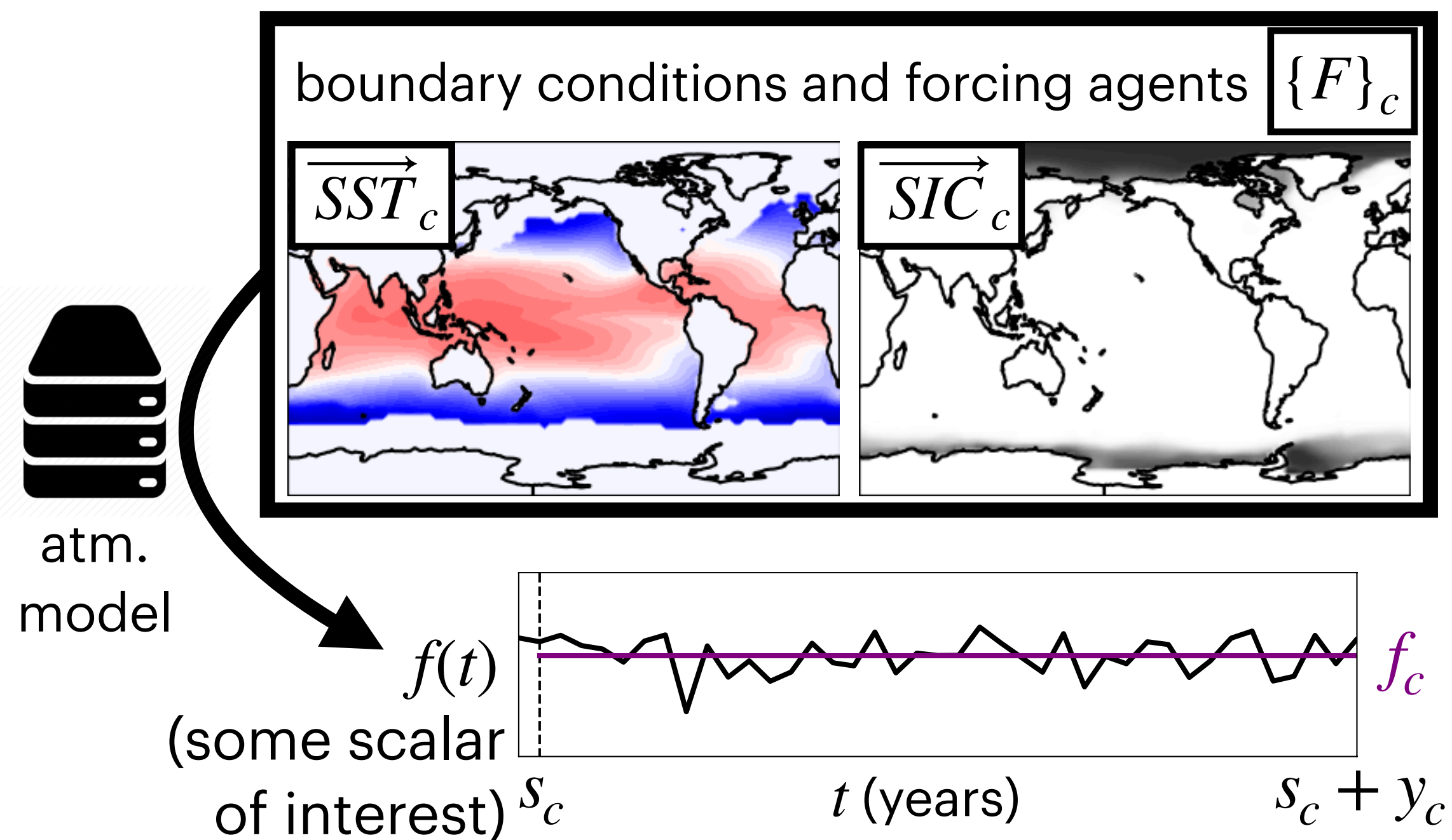
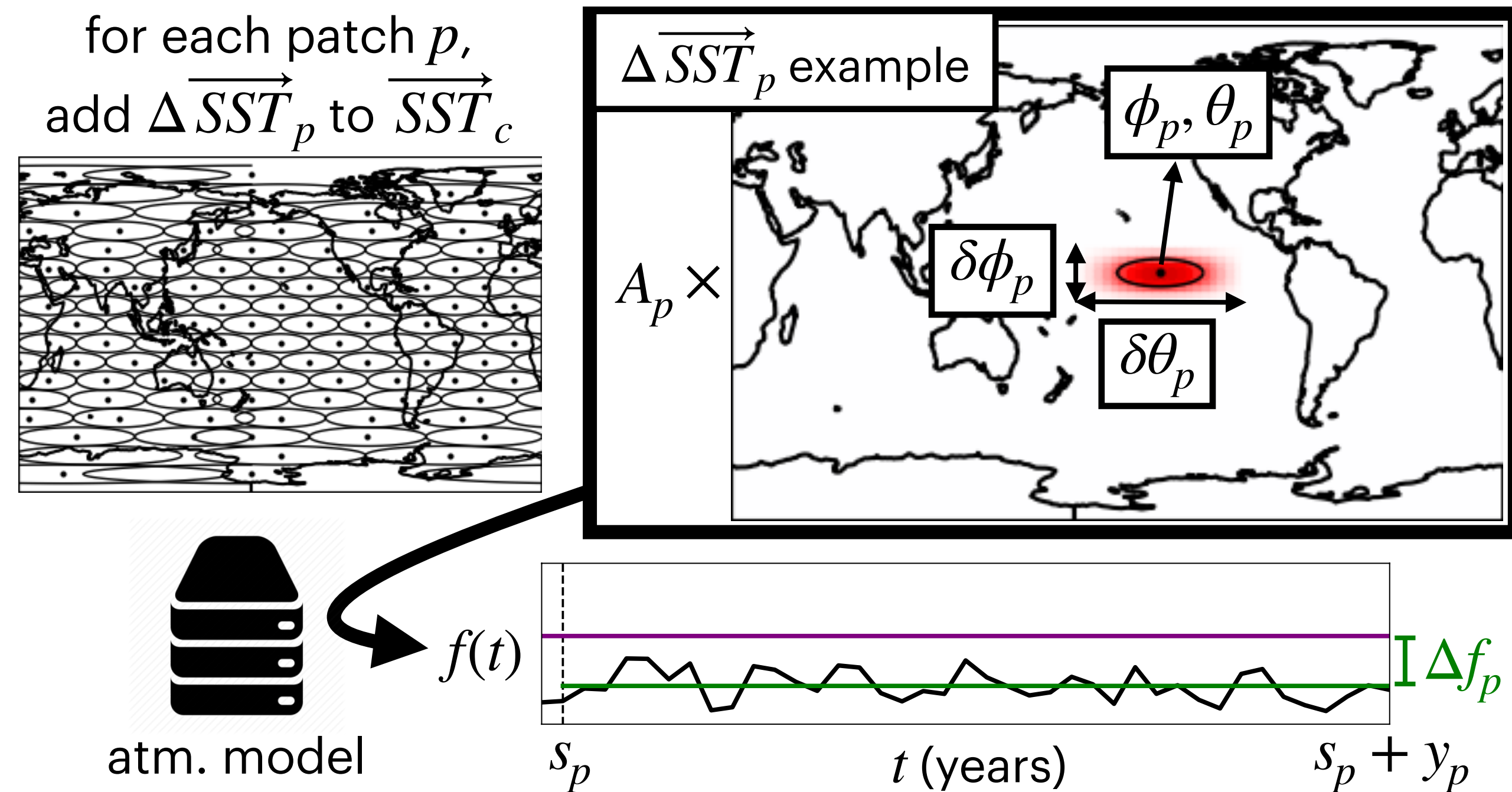


Step 1: Run a control simulation



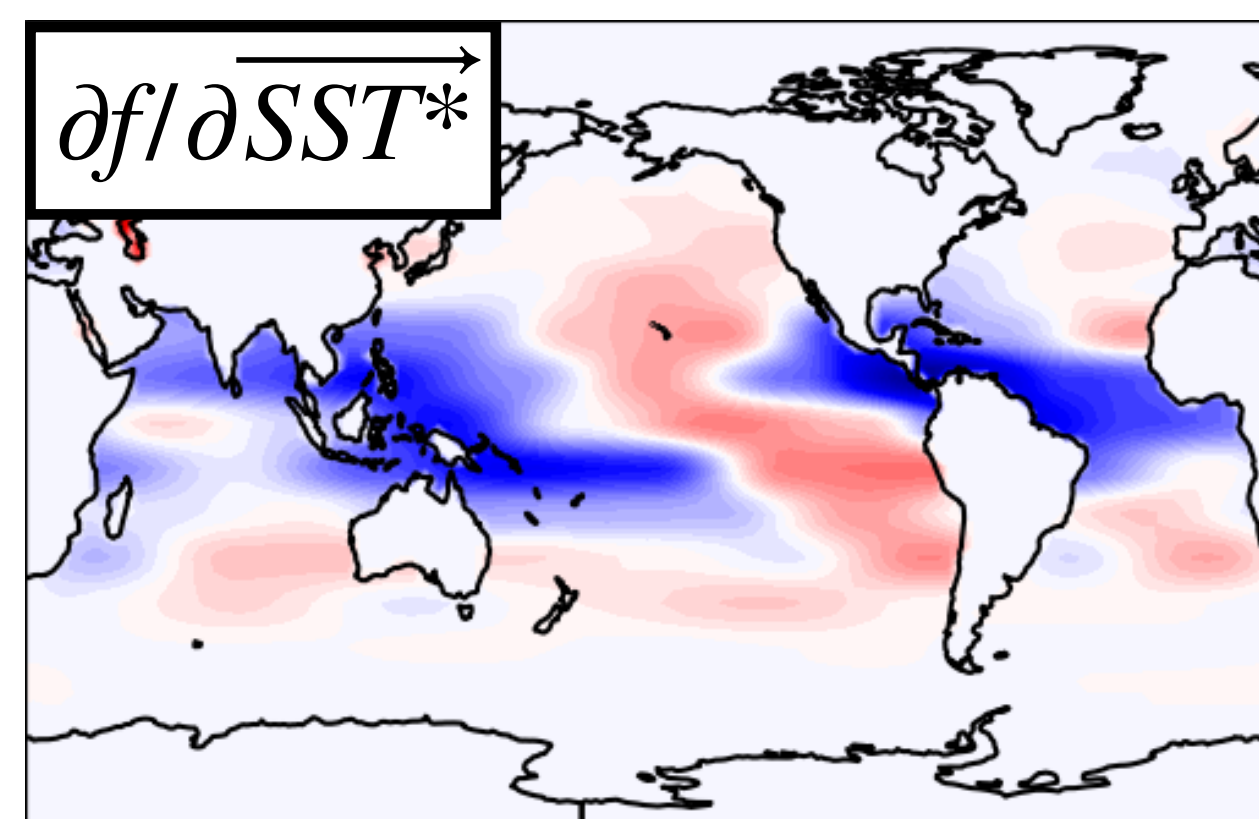
Step 2: Run patch simulations



Step 3: Make normalized derivative of f

for each grid cell i , take the weighted average of each patch's $\Delta f_p / \langle \Delta \overrightarrow{SST}_p \rangle$

$$\frac{\partial f}{\partial SST_i^*} = \frac{\sum_p \frac{\Delta f_p}{\langle \Delta \overrightarrow{SST}_p \rangle} \Delta SST_{p,i}}{\sum_p \Delta SST_{p,i}}$$



Step 4: Estimate response of f to $\Delta \overrightarrow{SST}(t)$

