## Feature selection **Training** Data pre-processing **RCM** Output: MAR(ACCESS-1.3), CMIP5 $Y_t$ : ice surface mass balance 1980-2090, RCP85 High resolution, local res $X_t$ : 2D input (~35km) $[t, 32, 32, C_1]$ Conservative interpolation Input: $\boldsymbol{Y_t}$ : target 3x3 moving $(\tilde{X}, \tilde{Z})$ : 1D and 2D UPRCM vectors [t, 64, 64]average filter **Emulator** Normalization **UPRCM** outputs upscaled to $oldsymbol{Z}_t$ : 1D input res (1.2°) (~60x200km) $[t, 1, 1, C_2]$