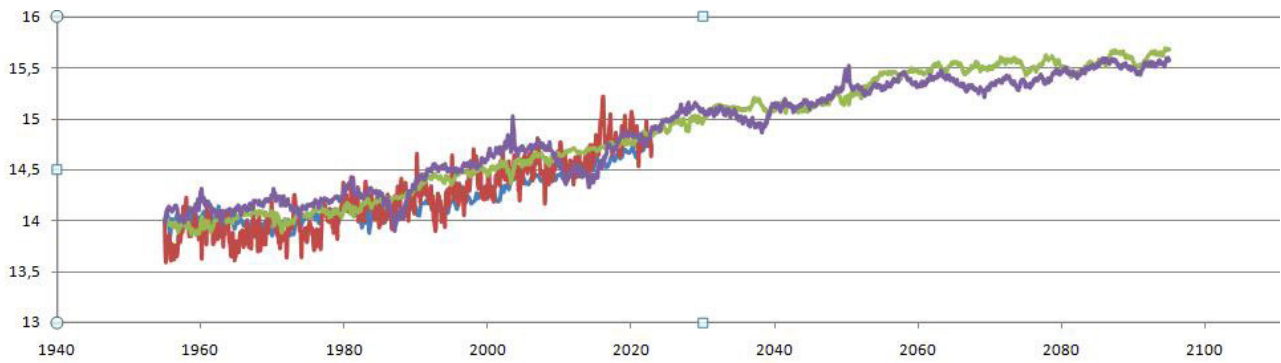**Two Other Simulations**

Figure 1. Simulations of t_n and θ_n over the period 1955-2095 compared to the temperatures observed Ta_n and Θ_n during the period 1955-2022. Red curve: observed atmospheric temperature Ta_n; Purple curve: simulated atmospheric temperatue t_n; Blue curve: observed upper ocean layer temperature Θ_n; Green curve: simulated upper ocean layer temperature θ_n.

Table 1. Average Lengths of the Climb Chains for the Observed Data (Period 1955-2022) and for the Data Resulting from the Simulation (Period 1955-2095)

Average Lengths of Climb Chains		Correlation Coefficients	
For Ta_n	1,51	Between Ta_n and t_n	0,76
For t_n	1,34	Between Θ_n and θ_n	0,91
For Θ_n	1,76	Between Ta_n and Θ_n	0,89
For θ_n	1,86	Between t_n and θ_n	0,98

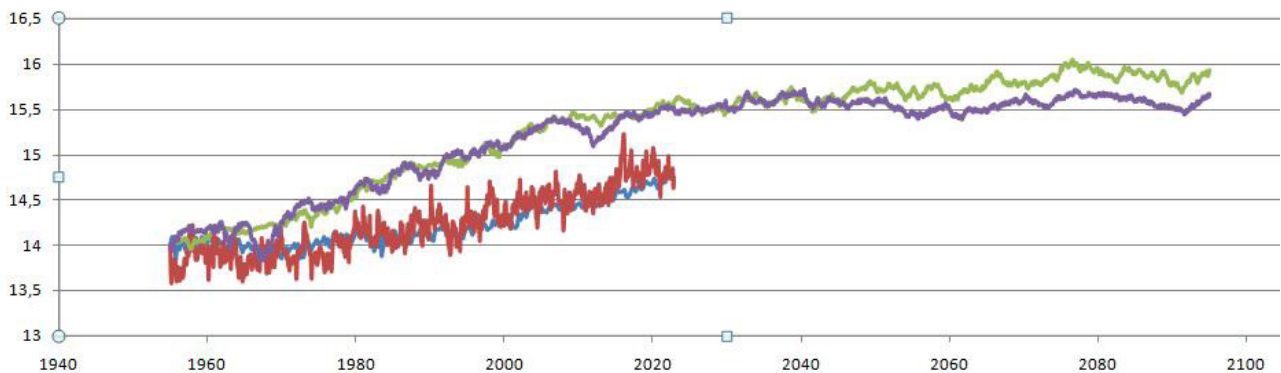Notes: Correlation coefficients between different types of data over their common periods.

Figure 2. Simulations of t_n and θ_n over the period 1955-2095 compared to the temperatures observed Ta_n and Θ_n during the period 1955-2022. Red curve: observed atmospheric temperature Ta_n; Purple curve: simulated atmospheric temperatue t_n; Blue curve: observed upper ocean layer temperature Θ_n; Green curve: simulated upper ocean layer temperature θ_n.

Table 2. Average Lengths of the Climb Chains for the Observed Data (Period 1955-2022) and for the Data Resulting from the Simulation (Period 1955-2095)

Average Lengths of Climb Chains		Correlation Coefficients	
For Ta_n	1,51	Between Ta_n and t_n	0,87
For t_n	1,30	Between Θ_n and θ_n	0,89
For Θ_n	1,76	Between Ta_n and Θ_n	0,89
For θ_n	1,89	Between t_n and θ_n	0,98

Notes: Correlation coefficients between different types of data over their common periods.