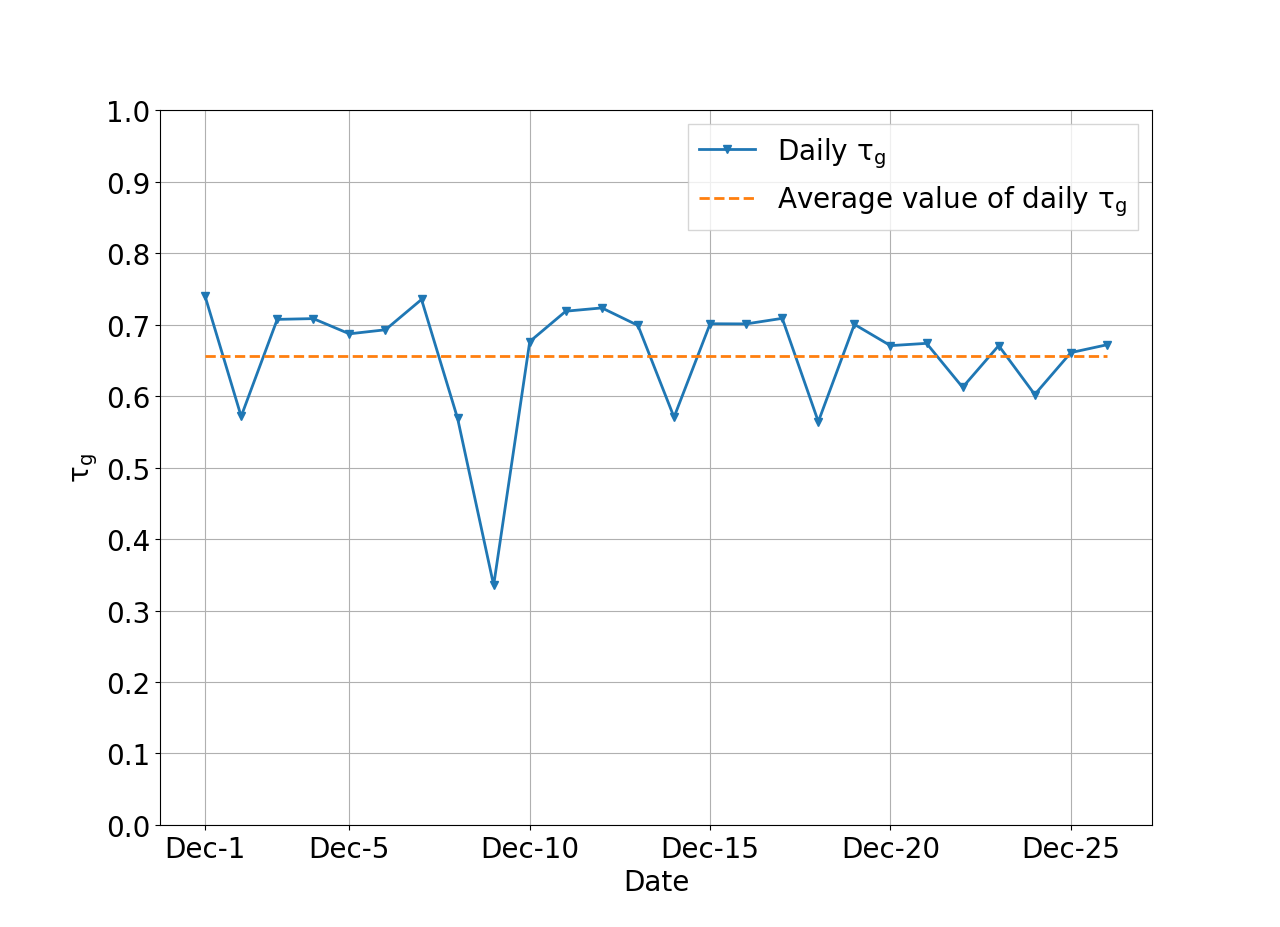
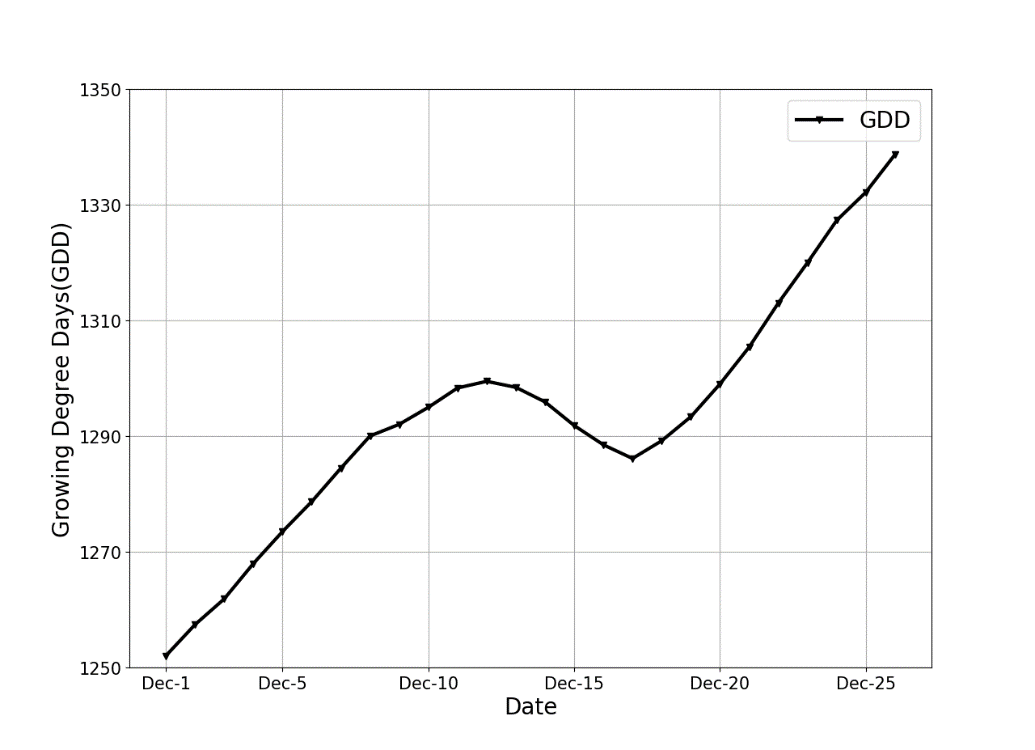


**Figure S1.** Diagram of sensor placement inside the greenhouse; H and T indicate the location of pyranometers and temperature sensors, respectively. The coordinate Y\_Location = 0 is the north margin of cultivation area.



**Figure S2.** Daily average greenhouse global transmittance (τg) calculated from data from exterior and interior inside sensors and the overall average value of τg during experiment.



**Figure S3.** Growing degree days (GDD) during experimental days.



**Figure S4.** Basic diagram of adaptive filter, where y(n) is the output signal, x(n) is the input signal, d(n) is the desired output, and e(n), based on which the filter coefficients are refreshed, is the error signal of y(n) and d(n).