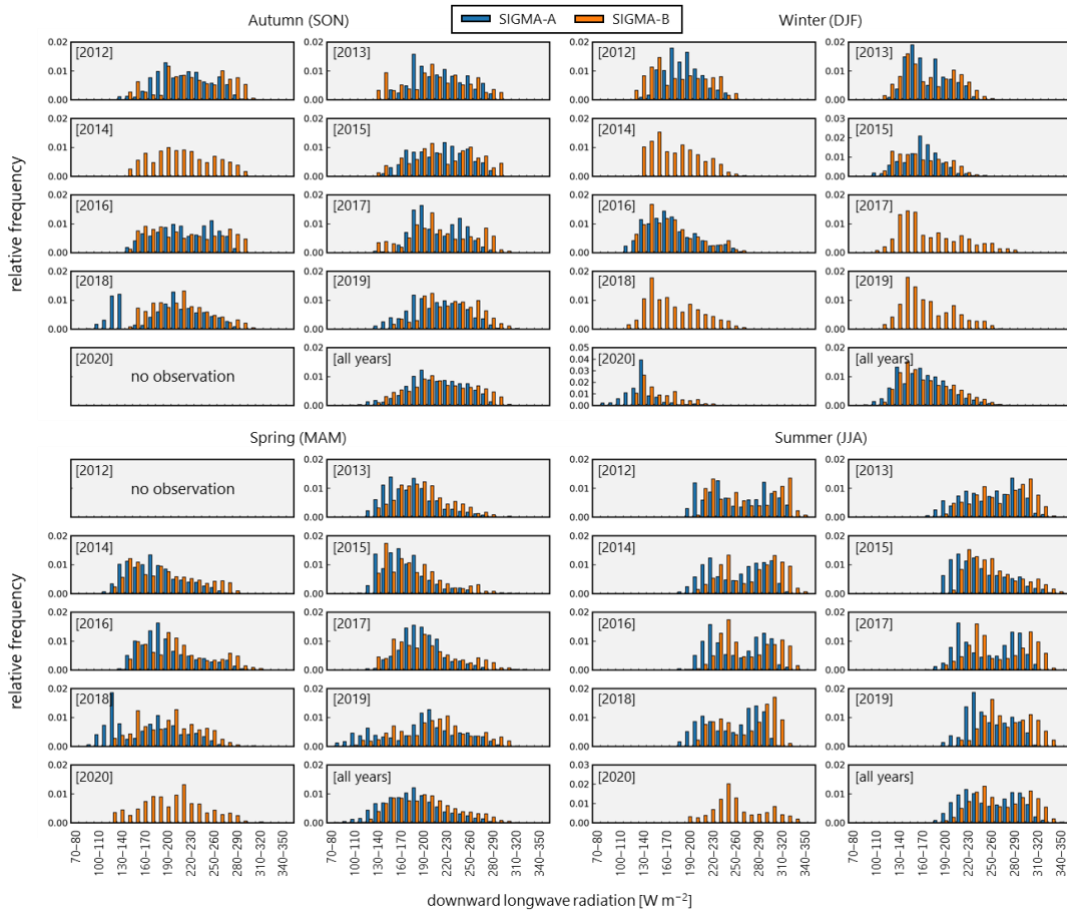
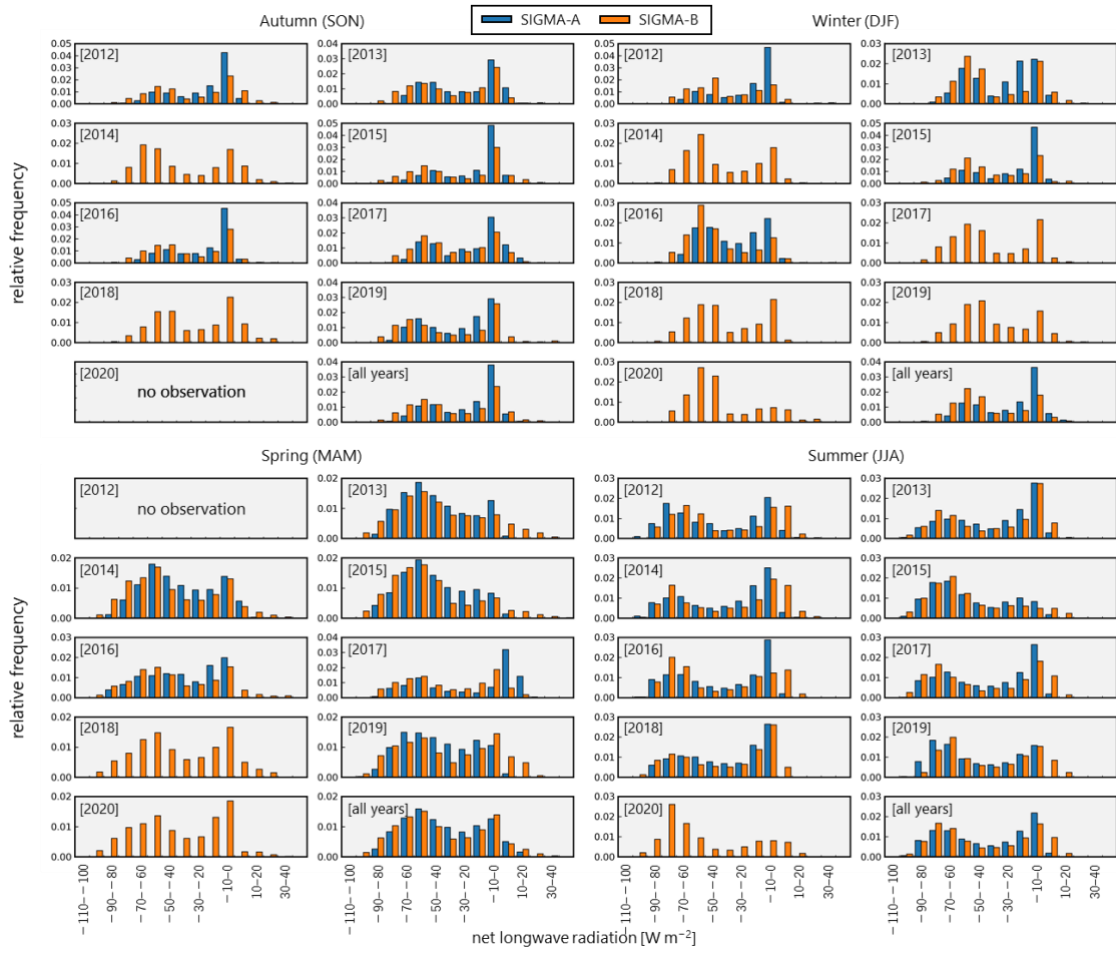


1 **Supplementary materials**



2

3 Figure S1. Histograms of downward longwave radiation (LW_d) in each season and year at the SIGMA-
 4 A (blue) and SIGMA-B (orange) sites. If more than half of the observation data were masked, the data
 5 were not plotted.



6
 7 Figure S2. Histograms of net longwave radiation (LW_{net}) in each season and year at the SIGMA-A
 8 (blue) and SIGMA-B (orange) sites.