

An oceanic impact of the Kuroshio path on snowfall on the Kanto region of Japan in the cold season

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To understand the sensitivity of precipitation and snowfall on the Kanto region to the Kuroshio path south of the Pacific coast of Japan during winter, this study used 5-km and 15-km resolution non-hydrostatic regional model (ARW-WRF). A control simulation (CTL) was driven by reanalysis and observational SST datasets. To understand the impact of sea surface temperature during the Kuroshio large meander path state on snowfall, a series of sensitivity experiments was also conducted.