Supplementary Material for “The Role of Horizontal Temperature Advection on Arctic Amplification”

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Temperature Budgets of Remaining Patterns

Figure S1: As Fig. 7, but for the remaining domains in SOM patterns 2, 4, 6, 7 and 9
Temperature Budgets of Remaining Patterns

Figure S1: continued…
Surface Energy Balance: Remaining Patterns

Figure S2: As Fig. 9, but for the remaining SOM patterns 2, 4, 6, 7 and 9
Figure S3: The clear sky downward longwave radiation anomalies, according to ERA-Interim data, for each SOM pattern. The panels correspond to the SOM patterns in Fig. 1. Here, ERA-Interim’s clear sky surface downward longwave radiation is determined by subtracting their surface all sky net longwave radiation from their surface clear sky net longwave radiation and subsequently adding the surface all sky downward radiation. This works because the surface clear sky upward longwave radiation is equal to the surface all sky upward longwave radiation.
Figure S4: As Fig. 11, but for the remaining SOM patterns 2, 4, 6, 7 and 9