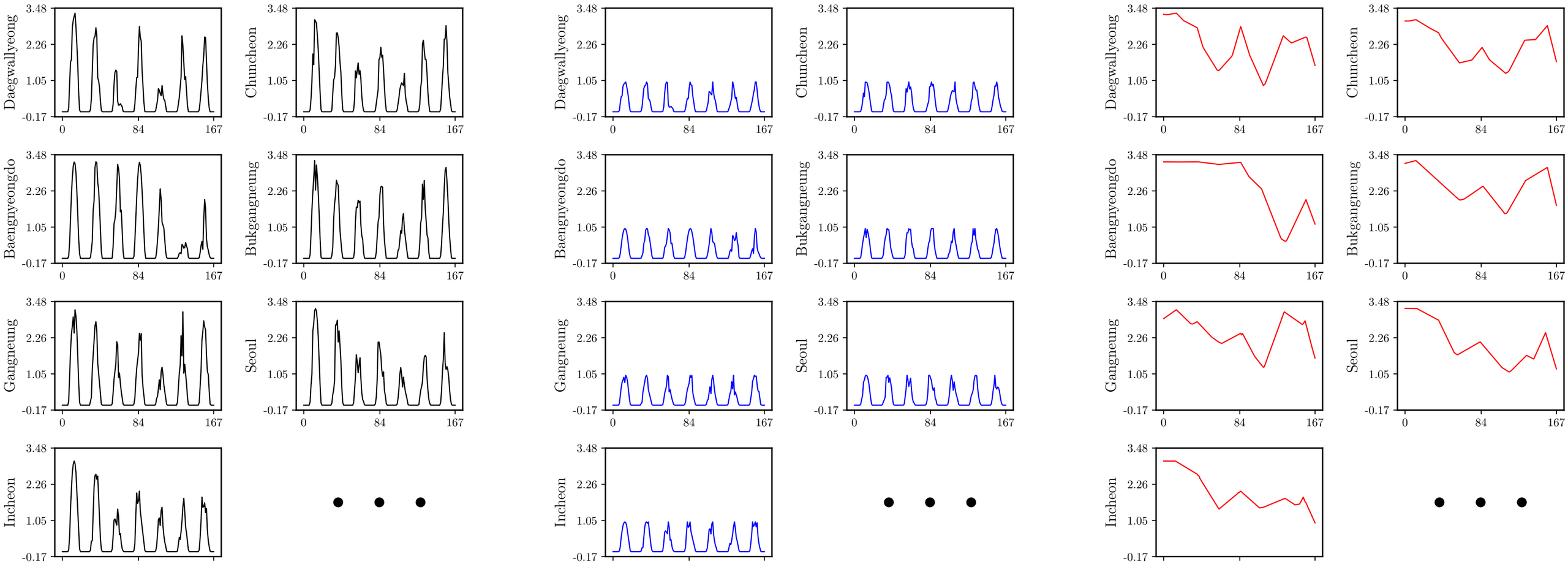
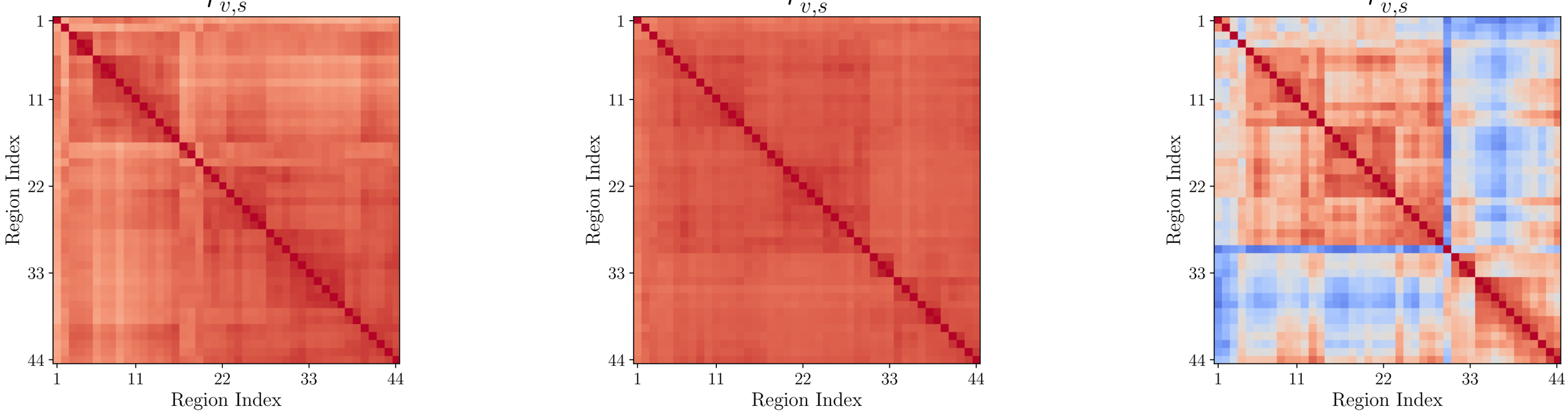
$y_{v,t}$ (raw data)

$y^P_{v,t}$ (normalized daily pattern)

$y^U_{v,t}$ (weather condition pattern)



$r_{v,s}$

$r^P_{v,s}$

$r^U_{v,s}$