



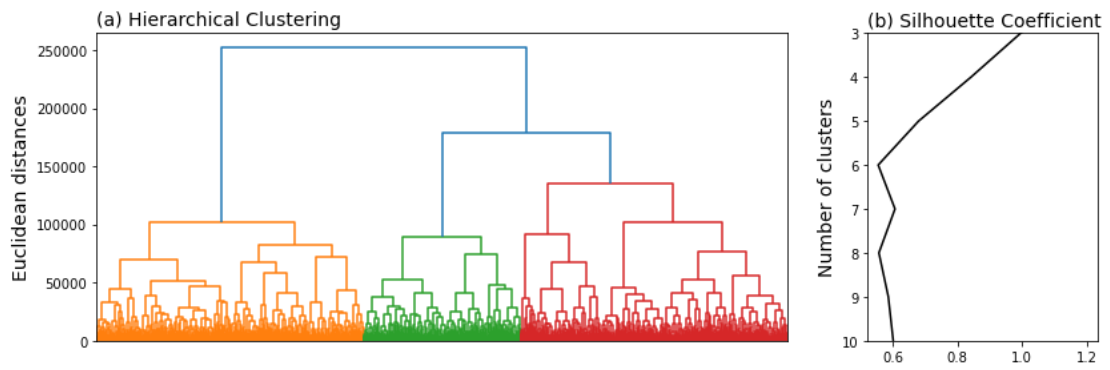
Supplement of

Three dominant synoptic atmospheric circulation patterns influencing severe winter haze in eastern China

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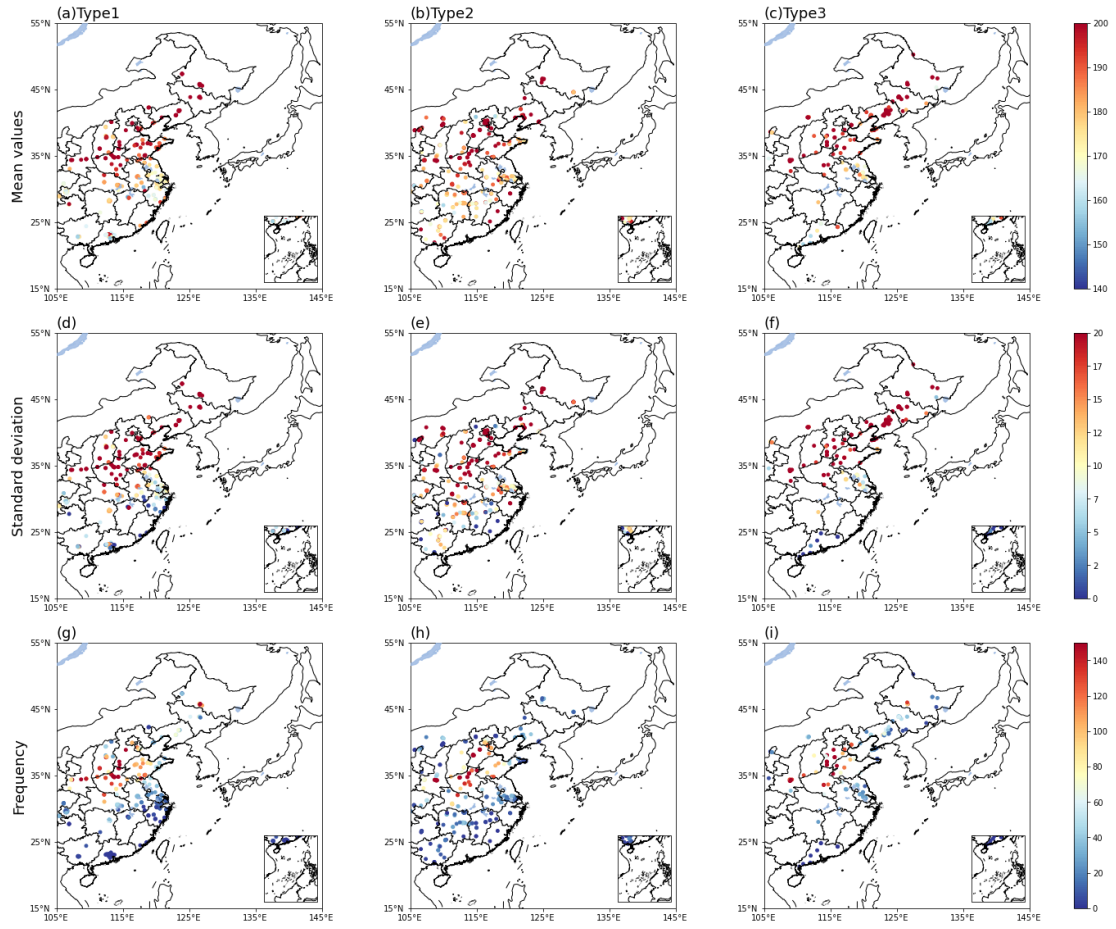


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17 **Figure S1.** (a) Hierarchical clustering tree and (b) silhouette coefficient of GPH anomalies at 500-

18 hPa in NDJF.

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21 **Figure S2.** (a) Mean, (d) standard deviation of PM_{2.5} concentration distribution and (g) frequency of
 22 severe haze days in cluster samples of Type1. (b), (e), (h) and (c), (f), (j) are the same as (a), (d), (g),
 23 but for Type2 and Type3, respectively.

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