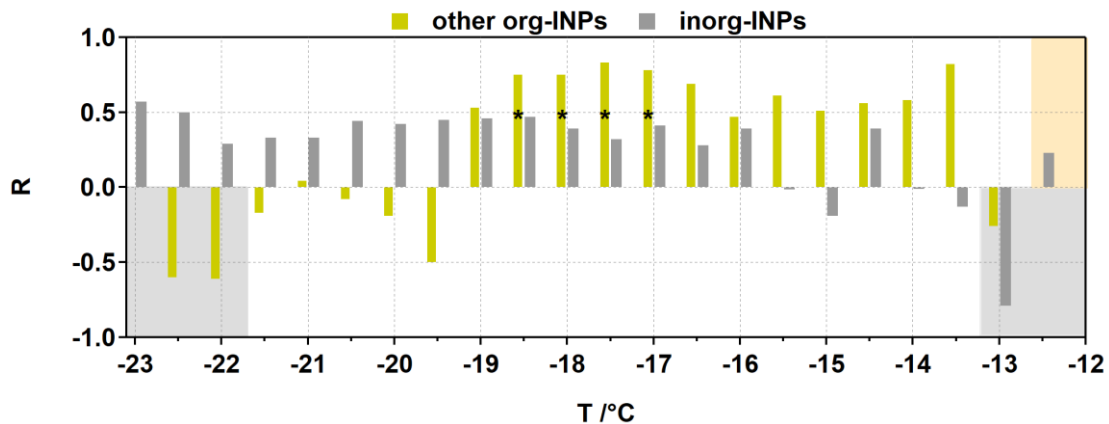
Supplementary Materials *of*

Measurement report: Atmospheric Ice Nuclei at Changbai Mountain (2623 m a.s.l.) in Northeastern Asia

Yue Sun[1], Yujiao Zhu[1], Yanbin Qi[2], Lanxiadi Chen[3], Jiangshan Mu[1], Ye Shan[1], Yu Yang[1], Yanqiu Nie[1], Ping Liu[1], Can Cui[1], Ji Zhang[1], Mingxuan Liu[1], Lingli Zhang[4], Yufei Wang[2], Xinfeng Wang[1], Mingjin Tang[3], Wenxing Wang[1], Likun Xue[1]

[1]Environment Research Institute, Shandong University, Qingdao 266237, China
[2]Jilin Provincial Technology Center for Meteorological Disaster Prevention, Changchun 130062, China
[3]State Key Laboratory of Organic Geochemistry, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, Guangzhou 510640, China
[4]Changbai Mountain Meteorological Observatory, An Tu, Jilin 133613, China

Correspondence to: Yujiao Zhu (zhuyujiao@sdu.edu.cn), Likun Xue (xuelikun@sdu.edu.cn)

15 **Figure S1. The relationship between PBL height and $N_{\text{INP-other org}}$ as well as $N_{\text{INP-inorg}}$ during daytime (8:00-17:00, m above ground level) as a function of temperature. The asterisk indicates $p < 0.05$. The orange and gray shades indicate that the data points number of the other org-INPs and inorg-INPs were less than half of all samples at each temperature.**

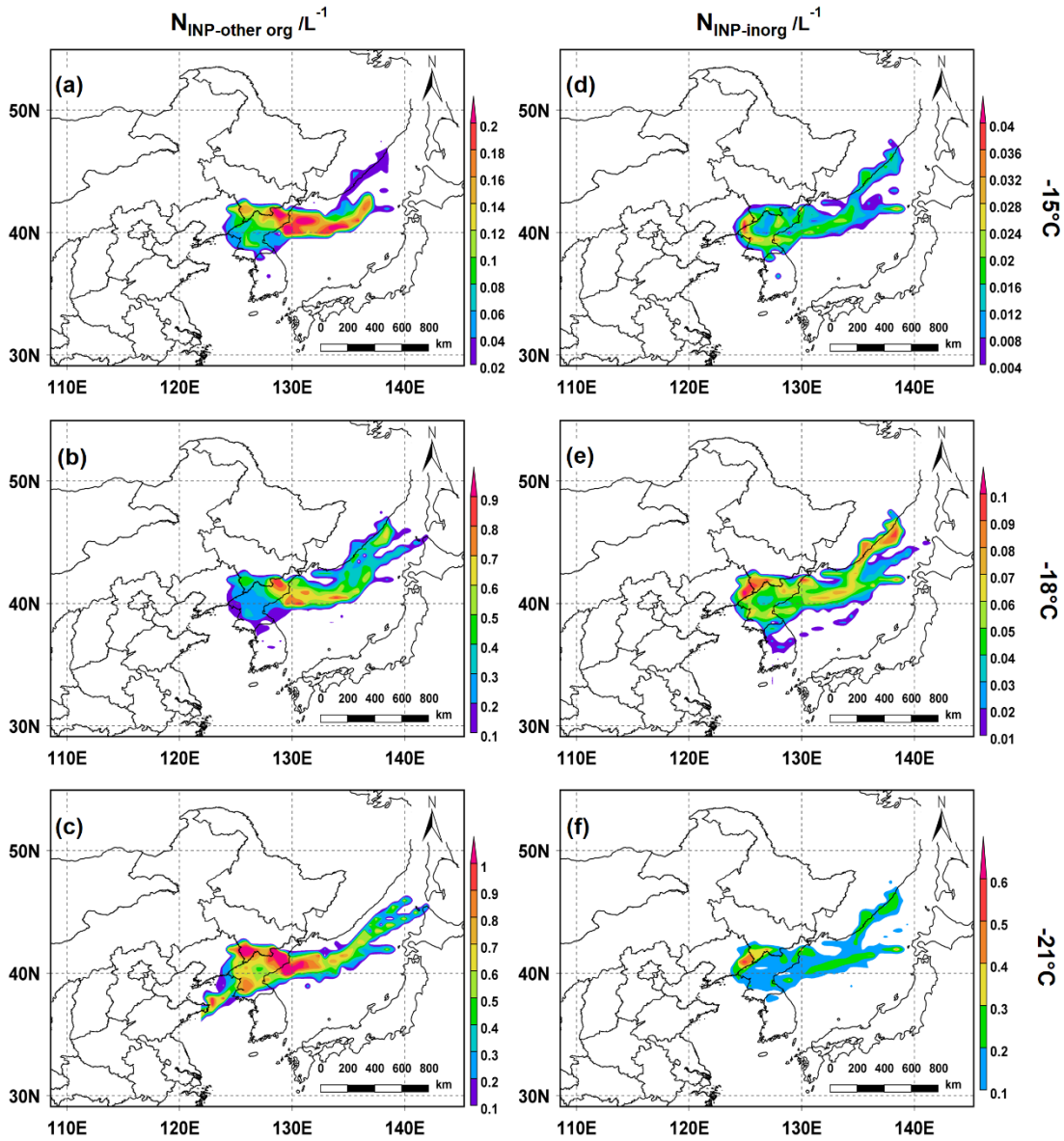



Figure S2. The concentration-weighted trajectory (CWT) analysis for the distribution of $N_{INP\text{-other org}}$ (a-c) and $N_{INP\text{-inorg}}$ (d-f) at -15 °C, -18 °C and -21 °C.