



Corrigendum to “Measurement report: Atmospheric ice nuclei in the Changbai Mountains (2623 m a.s.l.) in northeastern Asia” published in Atmos. Chem. Phys., 24, 3241–3256, 2024

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The submitted manuscript contained a unit conversion error. An explanation and the corrected figure and text are given below.

Sun et al. (2024) reported ice-nucleating particles (INPs) in the immersion freezing mode at the summit of the Changbai Mountains in northeast Asia. In our paper (Sun et al., 2024), we compared our results with previous measurements conducted at various mountain sites. We cited N_{INPs} (at -10 and -15°) at Jungfraujoch as published by Conen et al. (2022); however, we did not convert the unit from m^{-3} to L^{-1} , resulting in the N_{INPs} at Jungfraujoch being 3 orders of magnitude higher than the true value. Specifically, there were two errors in the original paper:

1. In the original Fig. 2, N_{INPs} at Jungfraujoch was 3 orders larger than the true value in Conen et al. (2022). The revised figure is shown below.
2. In Sect. 3.1, the original text “However, in the HTR [high-temperature region], Conen et al. (2022) recorded results in Switzerland that were 1–3 orders of magnitude higher than in our study” should be changed to “In the HTR, our results were 1–2 orders of magnitude higher than those in Switzerland (Conen et al., 2022).”

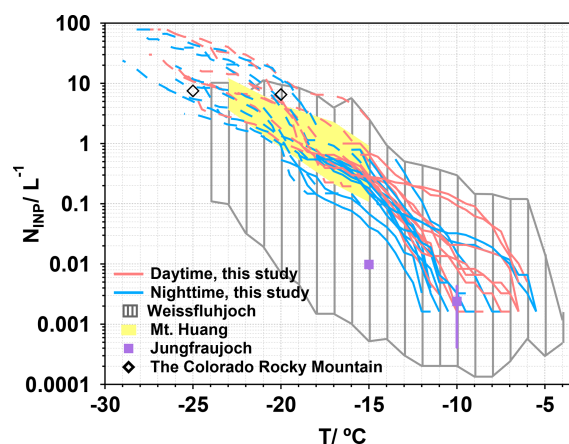


Figure 2. The concentrations of INPs (N_{INP}) as functions of temperature. The dark-gray shaded area represents the upper and lower limits of N_{INP} over Weissfluhjoch (2693 m a.s.l.) (Wieder et al., 2022), the yellow shaded area represents the atmospheric N_{INP} ranges at Mt. Huang (1840 m a.s.l.) (Jiang et al., 2015), the purple square represents the median N_{INP} at -15 and -10° at Jungfraujoch (3580 m a.s.l.) (Conen et al., 2022), and the black rhombus represents the median N_{INP} at -25 and -20° at the Storm Peak Laboratory in the northwestern Colorado Rocky Mountains (3220 m a.s.l.) (Hodshire et al., 2022).

References

Conen, F., Einbock, A., Mignani, C., and Hüglin, C.: Measurement report: Ice-nucleating particles active ≥ -15 °C in free tropospheric air over western Europe, *Atmos. Chem. Phys.*, 22, 3433–3444, <https://doi.org/10.5194/acp-22-3433-2022>, 2022.