



Supplement of

Measurement report: Size-resolved mass concentration of equivalent black carbon-containing particles larger than 700 nm and their role in radiation

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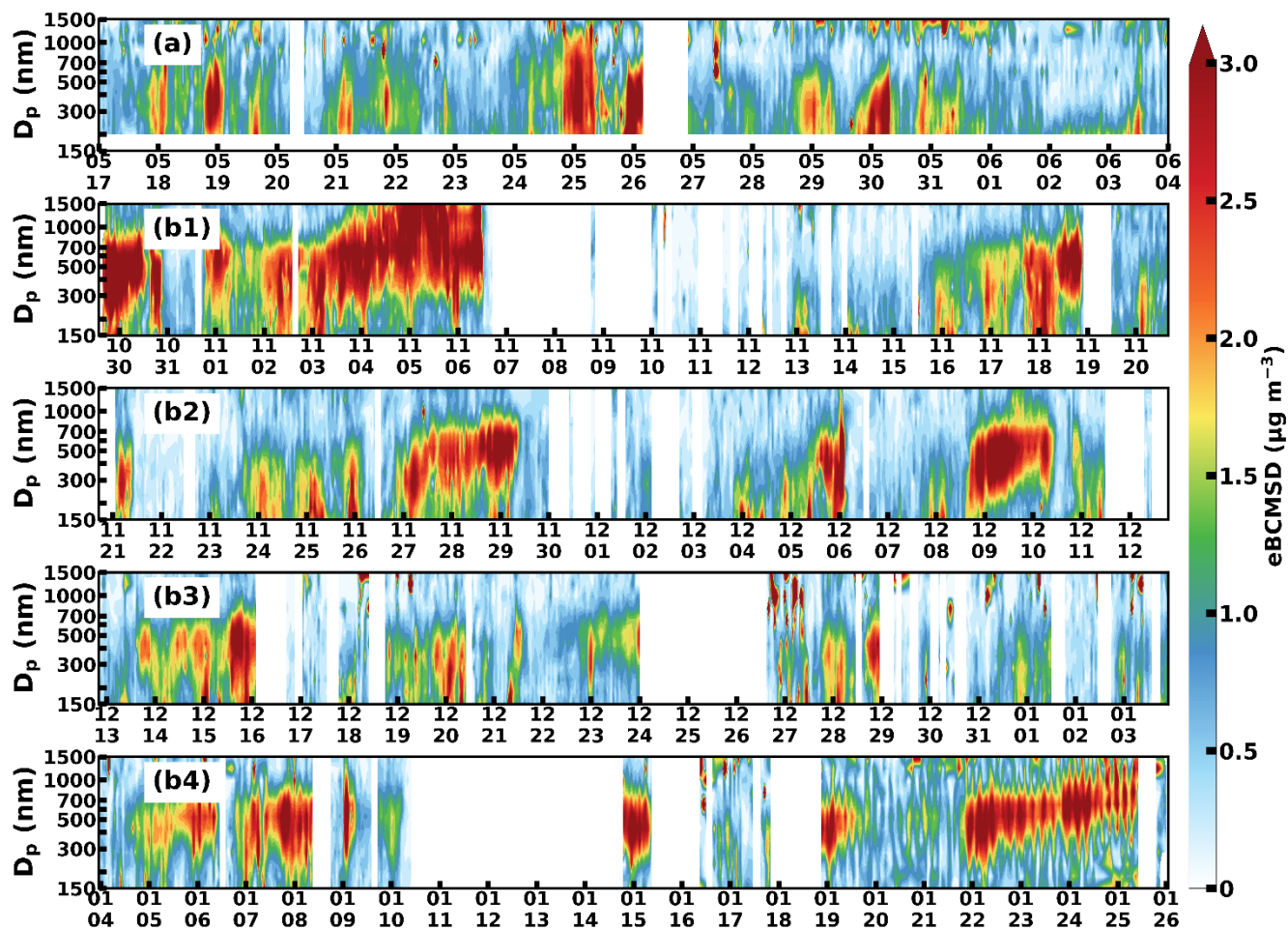


Figure S1: Time series of eBCMSD measured in (a) Changzhou from May 17th 2021 to June 3rd 2021 and (b1 – b4) Beijing October 29th 2021 to January 25th 2022. (b1) to (b4) corresponded to different time ranges.

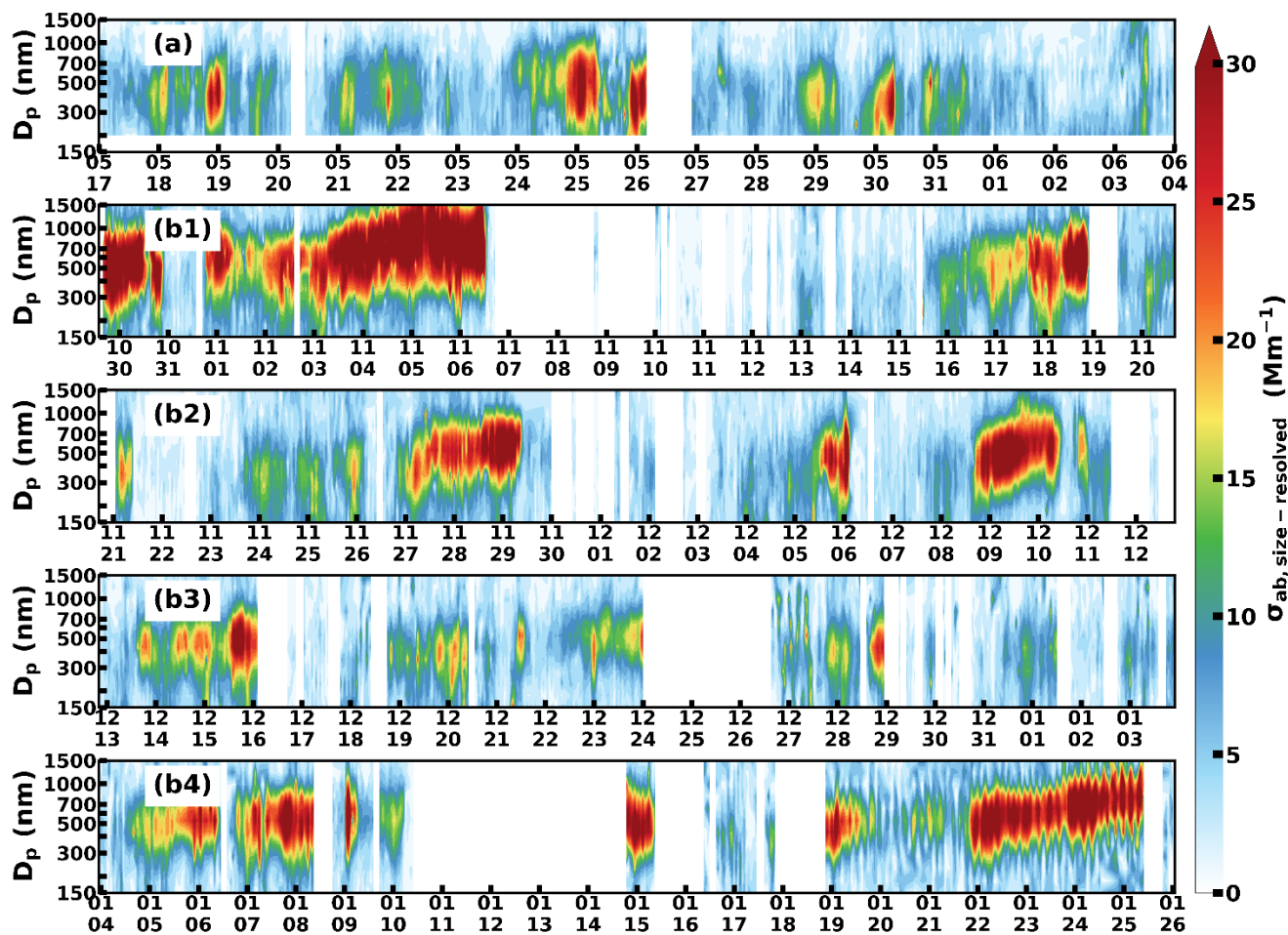


Figure S2: Time series of $\sigma_{ab, size-resolved}$ measured in (a) Changzhou from May 17th 2021 to June 3rd 2021 and (b1 – b4) Beijing October 29th 2021 to January 25th 2022. (b1) to (b4) corresponded to different time ranges.

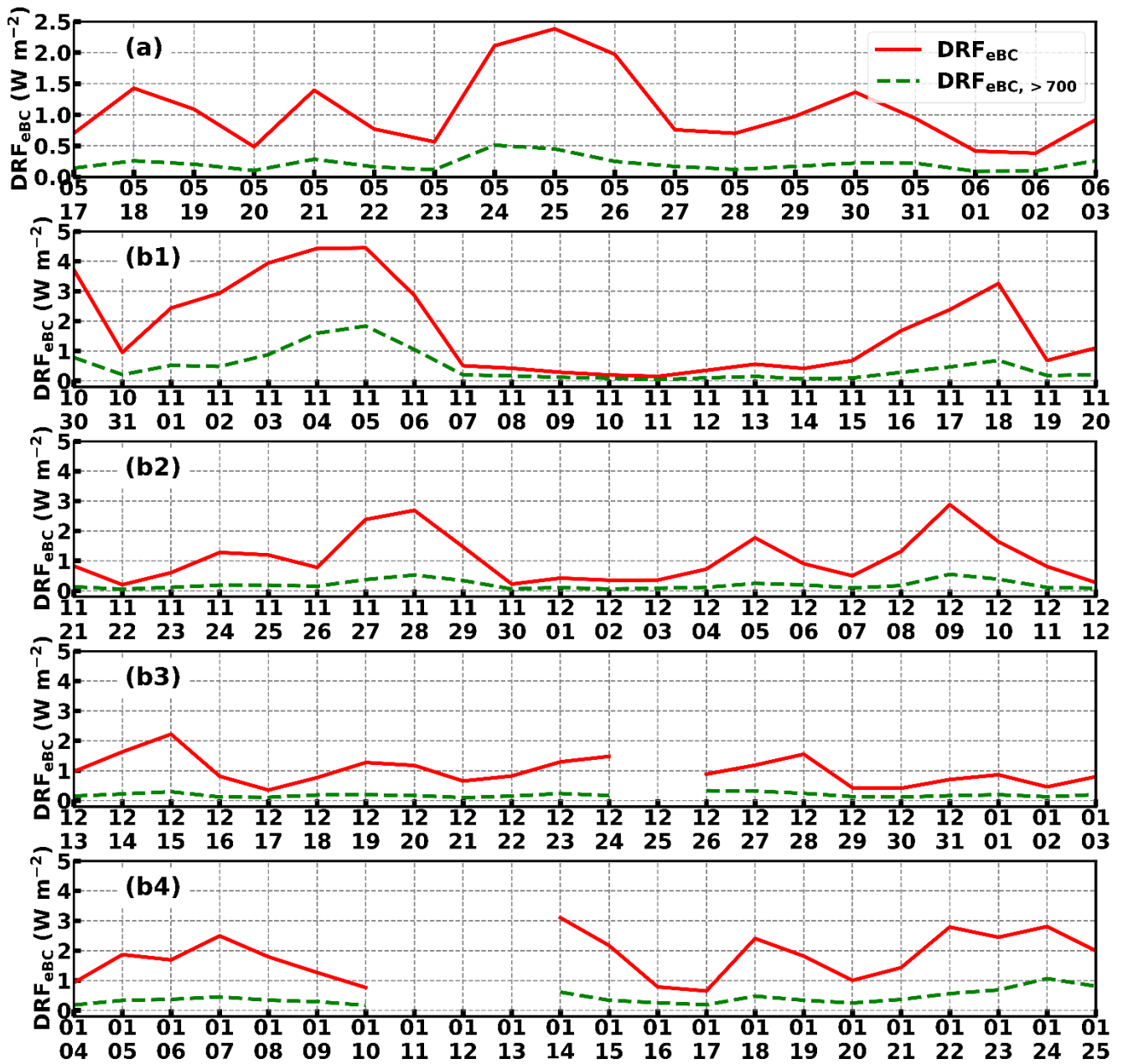


Figure S3: Time series of DRF_{eBC} (red solid line) as well as DRF_{eBC, >700} (green dashed line) measured in (a) Changzhou from May 17th 2021 to June 3rd 2021 and (b1 – b4) Beijing October 29th 2021 to January 25th 2022. (b1) to (b4) corresponded to different time ranges.

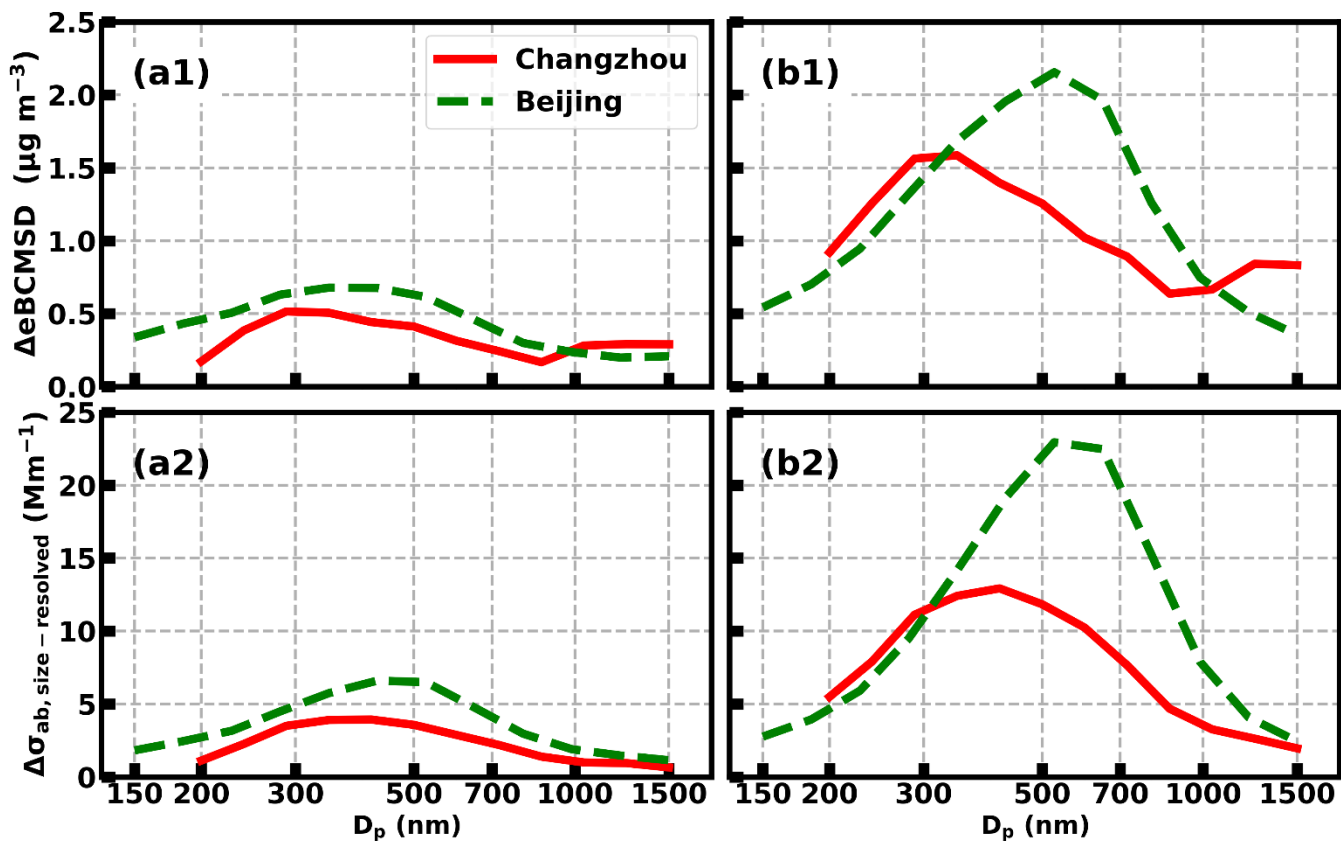


Figure S4: Increase of median eBCMSD in (a1) transitional and (b1) polluted period relative to clean period as well as increase of median $\sigma_{ab, \text{size-resolved}}$ in (a2) transitional and (b2) polluted period relative to clean period. Red solid (green dashed) line stood for Changzhou (Beijing).