Supplementary Information

Modeling CMAQ dry deposition treatment over Western Pacific: A distinct characteristic of mineral dust and anthropogenic aerosol

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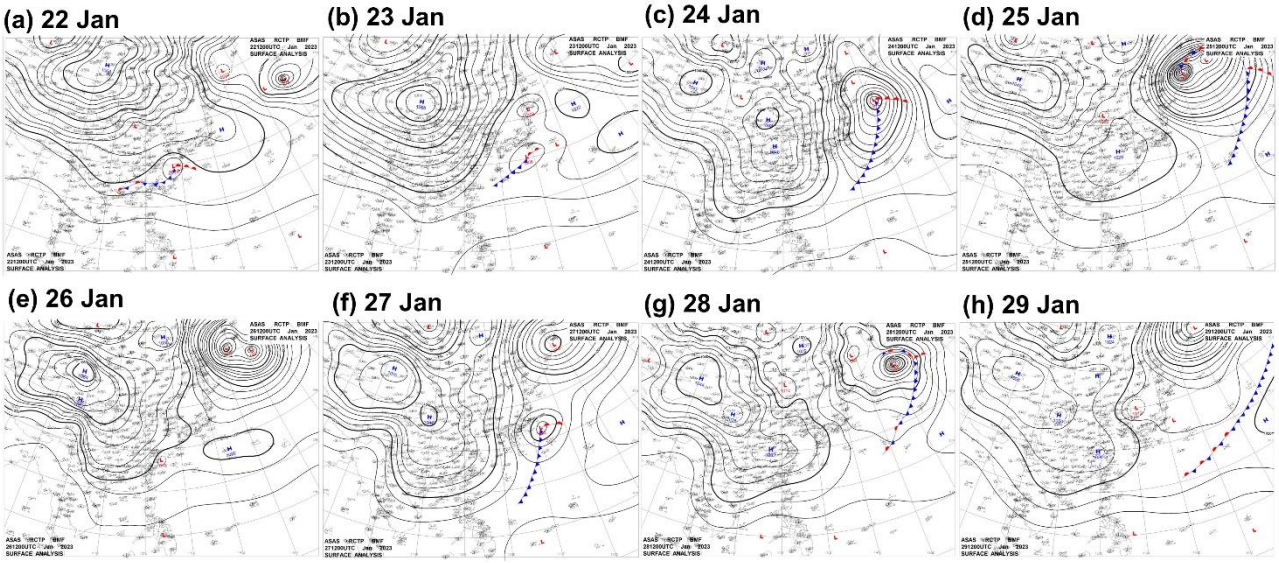

Figure S1: Surface weather maps for the weather pattern obtained by Taiwan Central Weather Bureau (http://www.jma.go.jp/jp/g3/).

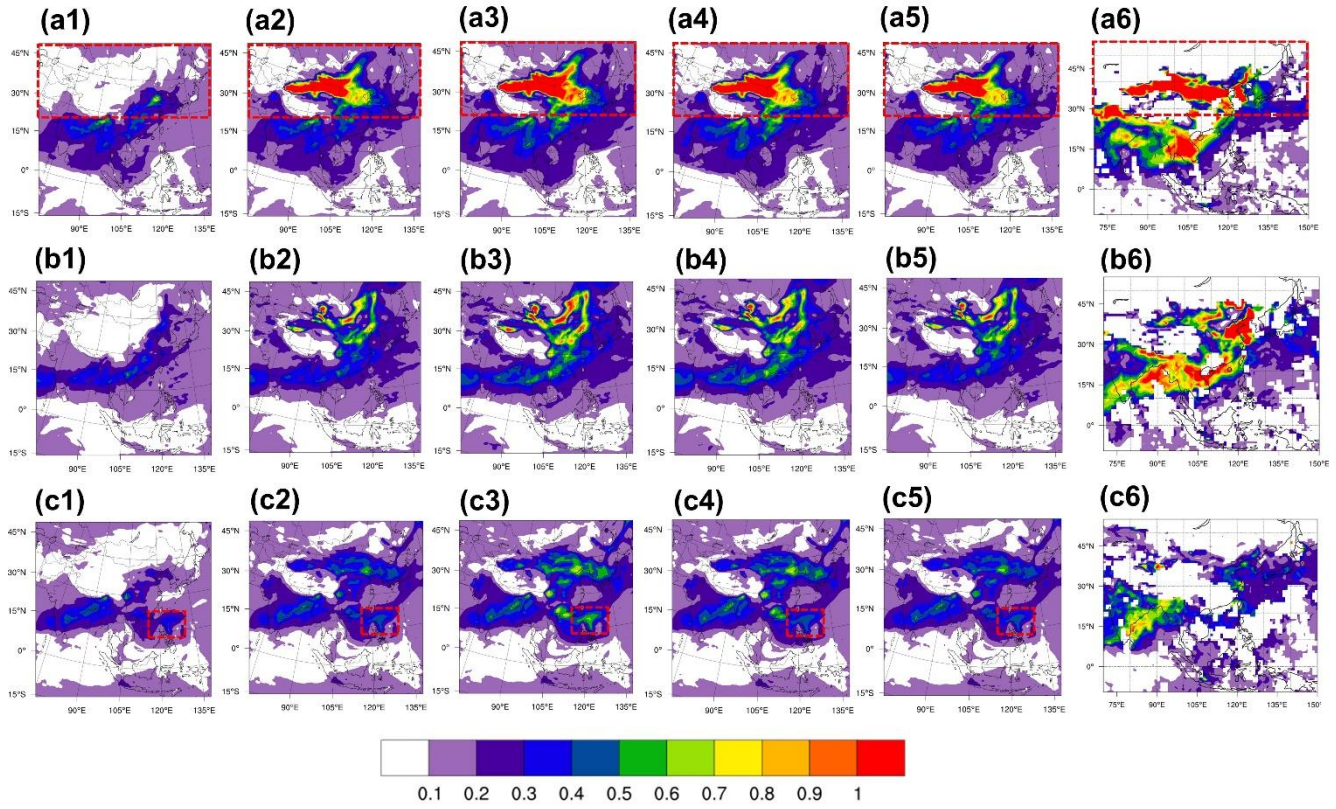

Figure S2: The 3-days mean averaged AOD over East Asia region, for (1-5) CMAQ and (6) MODIS during 14-16 March 2021 (a1-a6), 26-28 March 2021 (b1-b6) and 17-19 April 2021 (c1-c6).

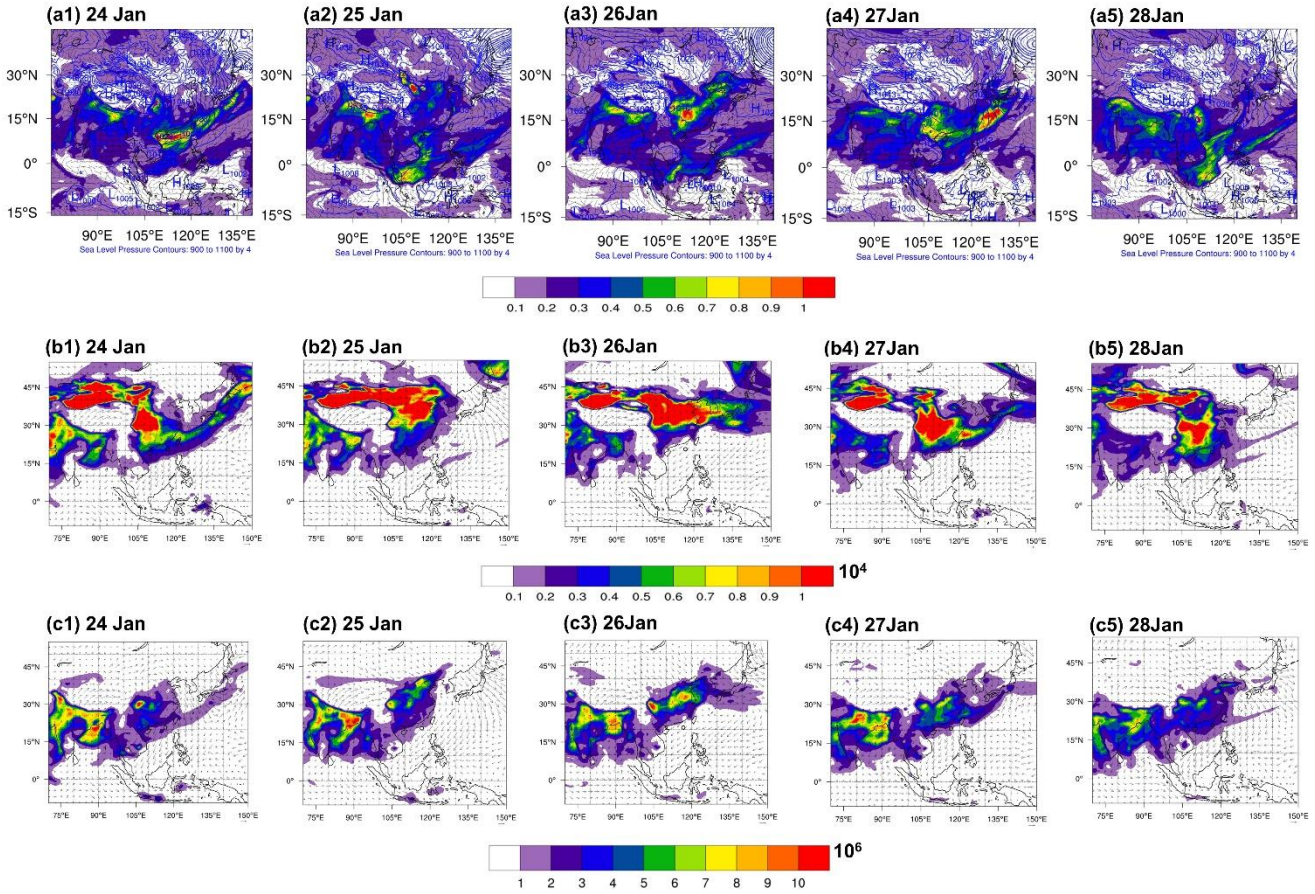

Figure S3: CMAQ AOD (a1-a5), MERRA2 dust mass column (b1-b5) and black carbon mass column (c1-c5) during 06 UTC (a1, b1, c1) 24 Jan, (a2, b2, c2) 25 Jan, (a3, b3, c3) 26 Jan, (a4, b4, c4) 27 Jan, (a5, b5, c5) 28 Jan 2023.