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Supplement of

Quantifying local-scale dust emission from the Arabian Red Sea coastal plain

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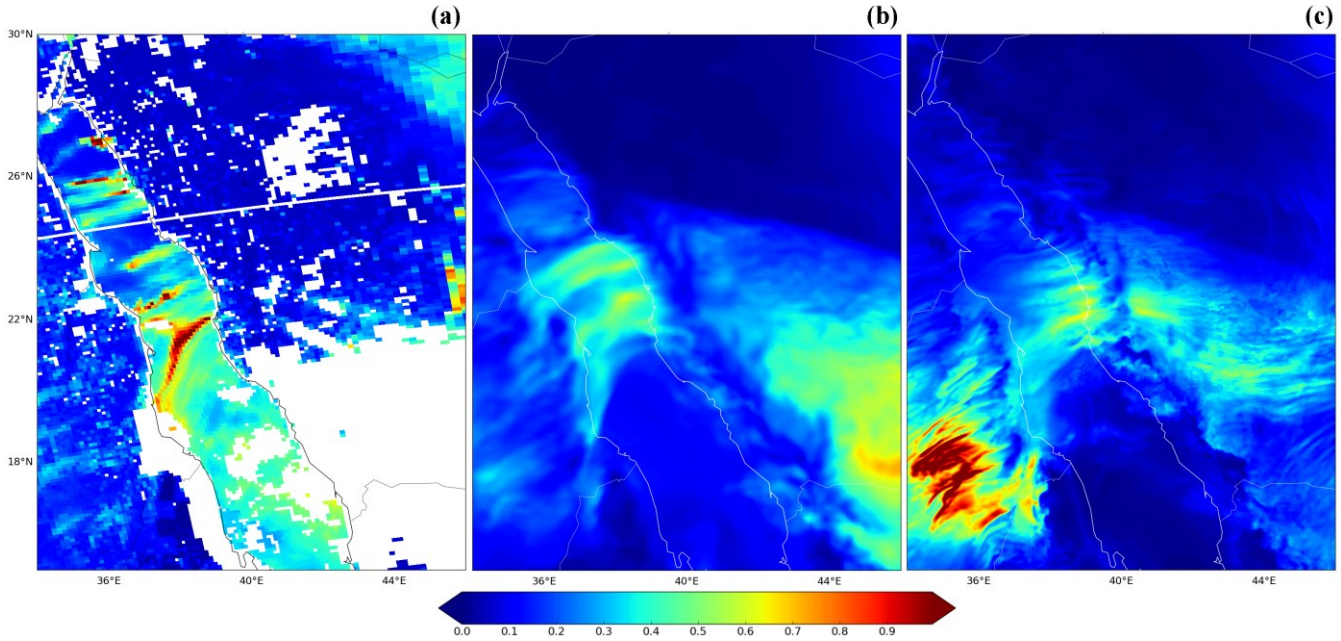

Figure S1. Aerosol optical depth (AOD) from (a) MODIS AQUA satellite (MYD04_L2 collection 6 combined Dark Target (ocean and dark land) and Deep Blue (bright land) product) at 10.55 UTC on 14 January 2009; (b) Kalenderski et al. (2013) WRF-Chem simulation at 11.00 UTC on 14 January 2009; (c) current study WRF-Chem simulation at 11.00 UTC on 14 January 2009.

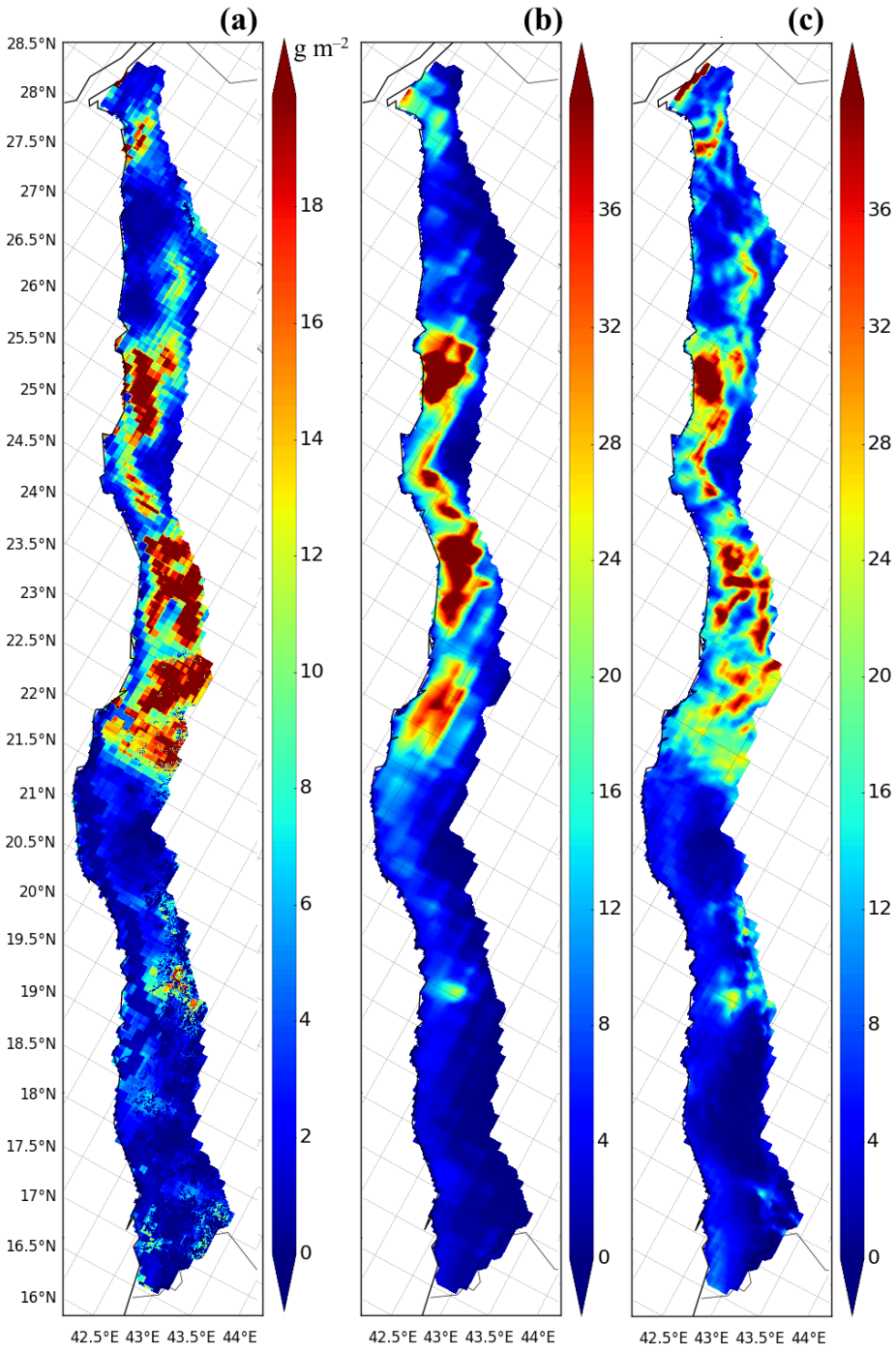

Figure S2. Dust emission (g m^{-2}) in (a) 1kmALL experiment with SEVIRI source function during 1–31 January 2009; (b) Kalenderski et al. (2013) WRF-Chem simulation during 1–20 January 2009; (c) current study WRF-Chem simulation during 1–31 January 2009.