Appendix A

Figure S1. Daily anomalies of (a) PM$_{2.5}$, (b) O$_3$, (c) NO$_2$ concentrations and (d) AQHI for and AQHI between MS1 (city center station) and MS3 (urban station) as well as MS2 (port station) and MS3 (urban station), respectively. Red/ blue points show the statistically significant/ insignificant differences at 95%.
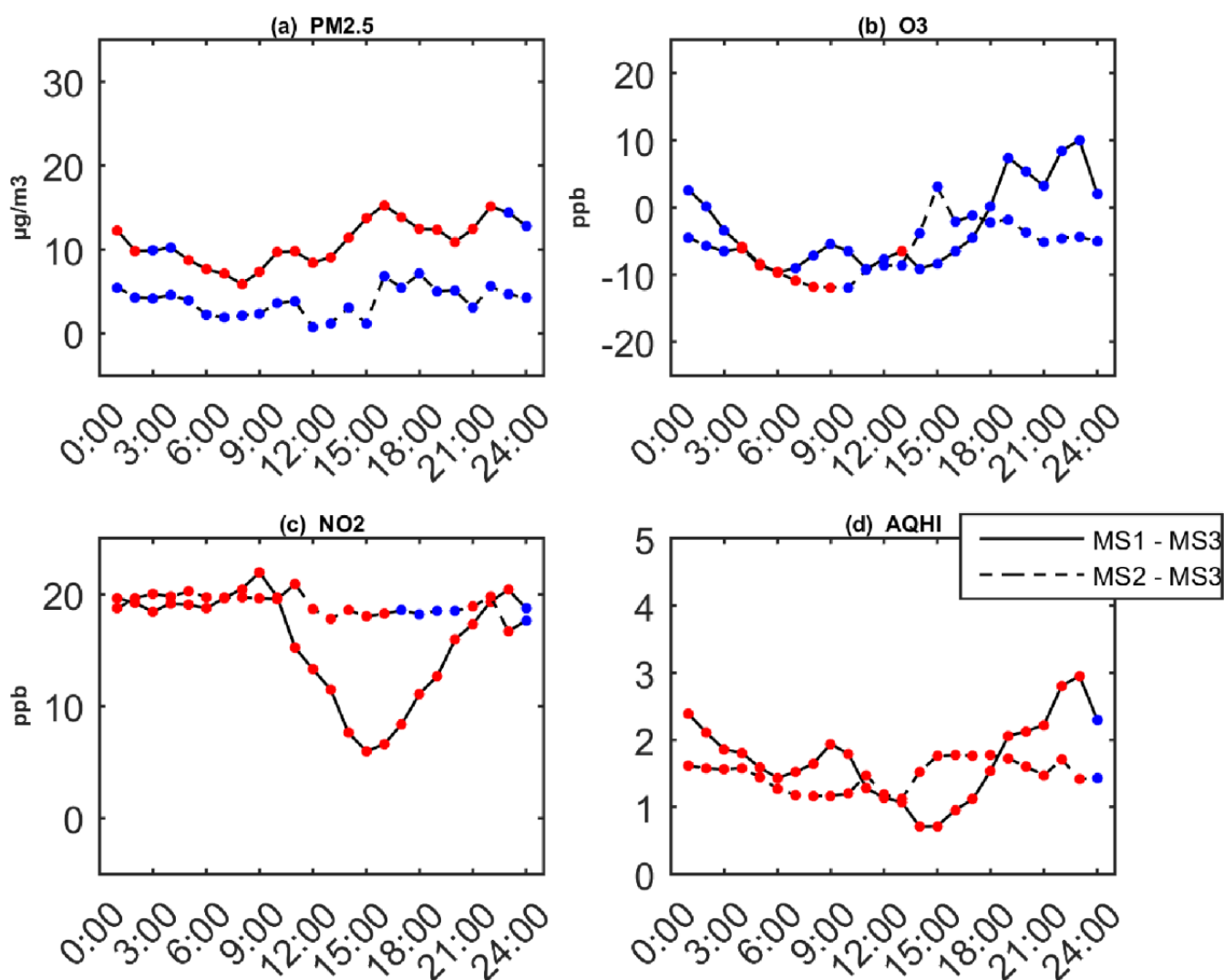
Figure S2: Diurnal anomalies of (a) PM$_{2.5}$, (b) O$_3$, (c) NO$_2$ concentrations and (d) AQHI between MS1 (city center station) and MS3 (urban station) as well as MS1 (city center station) and MS2 (port station), respectively. Red/ blue point show the statistically significant/ insignificant differences at 95%.
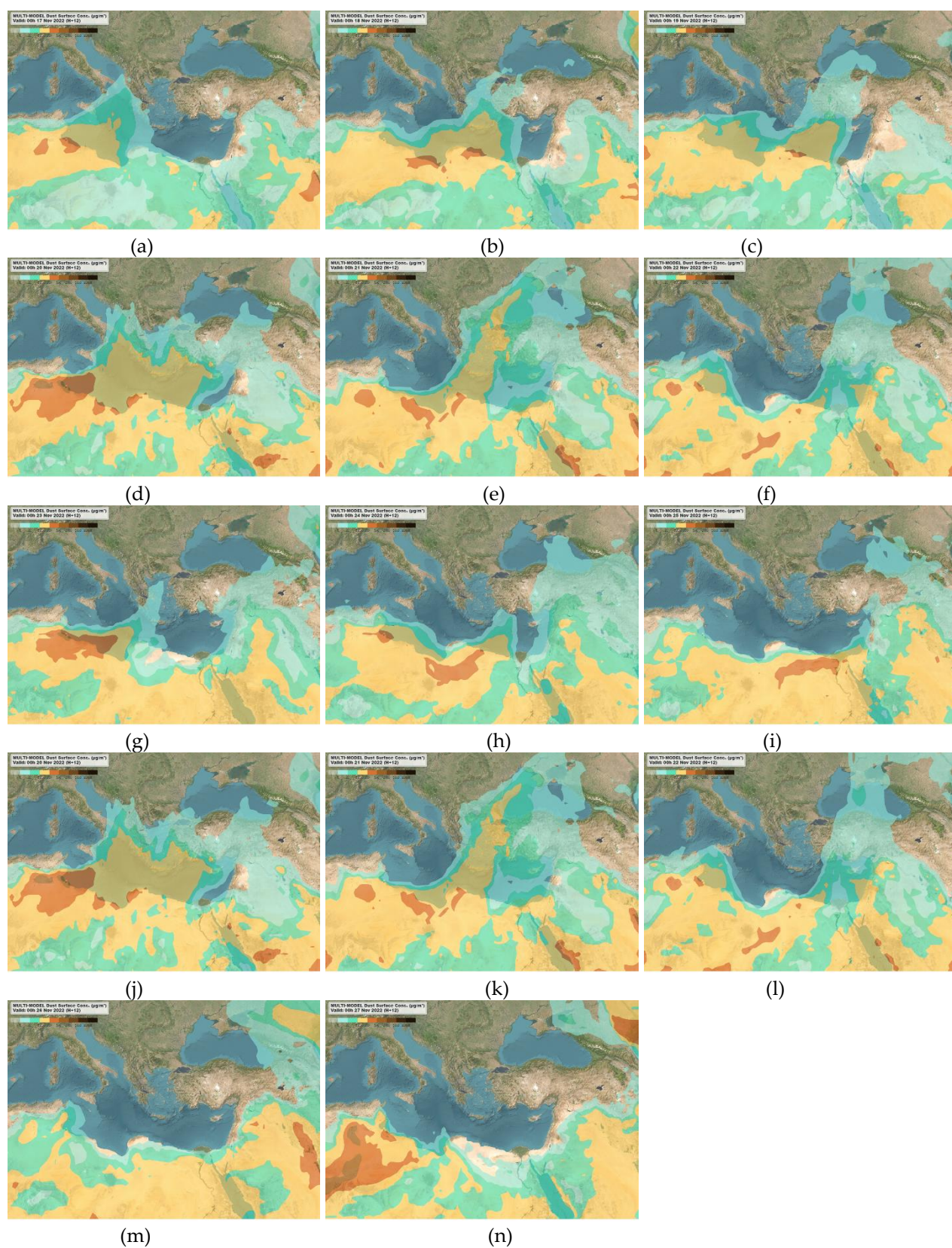
(a)

(b)

(c)

(d)

(e)

(f)

(g)

(h)

(i)

(j)

(k)

(l)

(m)

(n)

Figure S3. Images at 00:00 of the multi-model mean dust surface concentration (µg/m3) during the period from (a) – (n): 17th to 27th November 2022. Images were provided by the WMO Barcelona Dust Regional Center. (Source: https://dust.aemet.es/products/daily-dust-products, assessed date: 8 March 2022).