

Supplementary Material

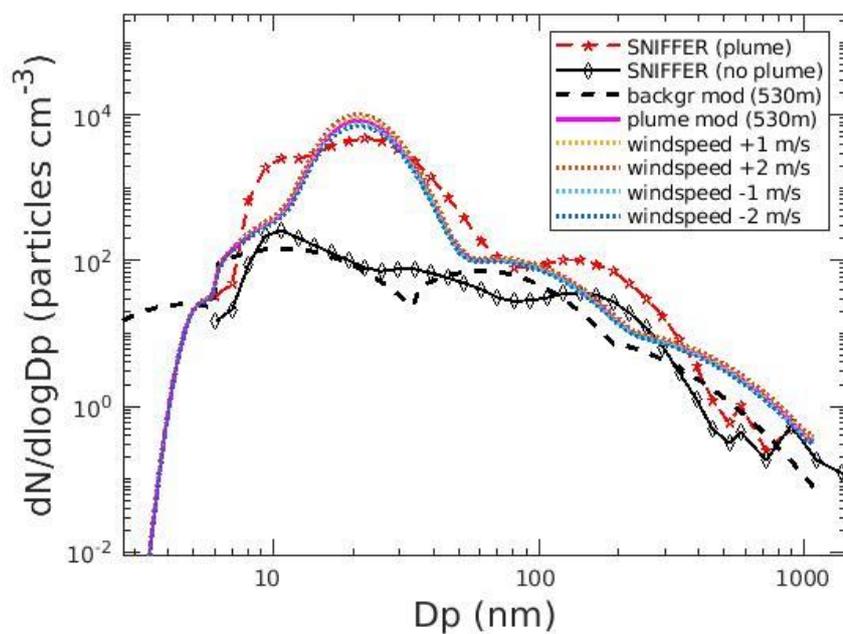


Figure S1: Ship plume at 21.07.2021 17:31:10 UTC with changing wind speed.

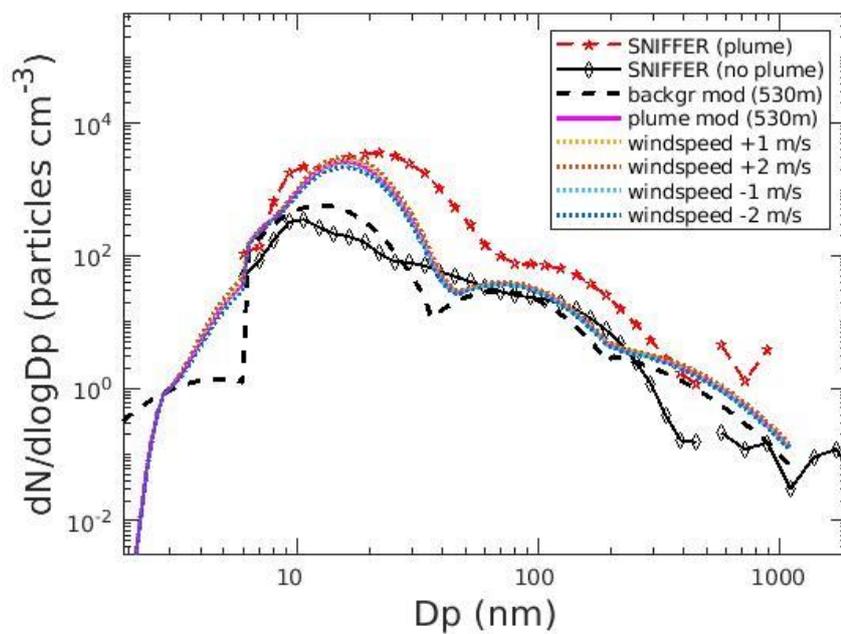


Figure S2: Ship plume at 02.08.2021 17:22:46 UTC with changing wind speed.

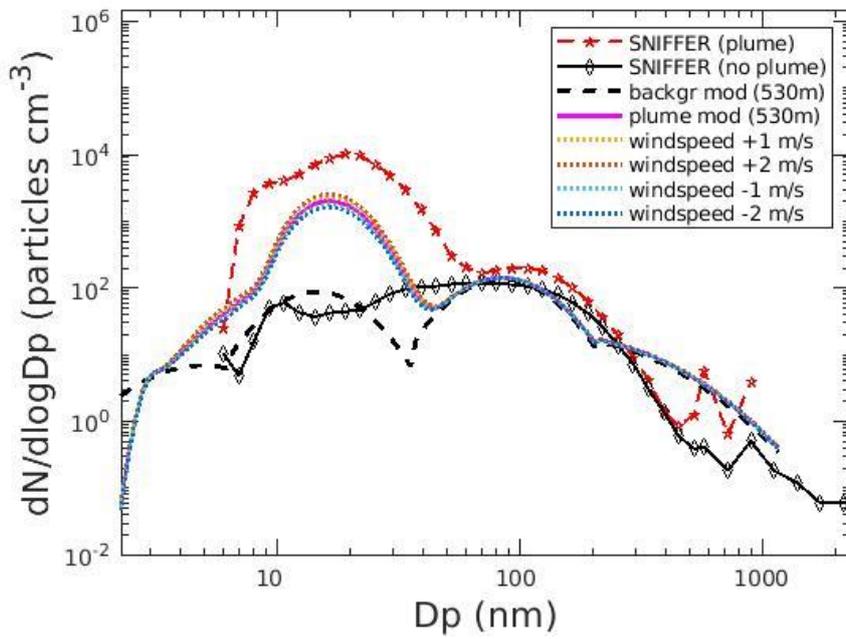


Figure S3: Ship plume at 30.08.2021 17:34:00 UTC with changing wind speed.

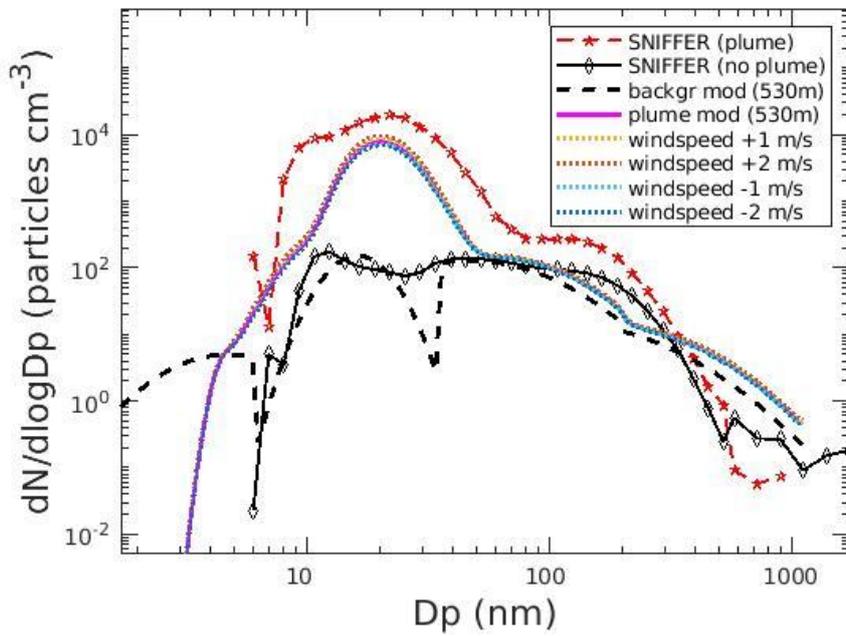


Figure S4: Ship plume at 01.09.2021 17:30:10 UTC with changing wind speed.

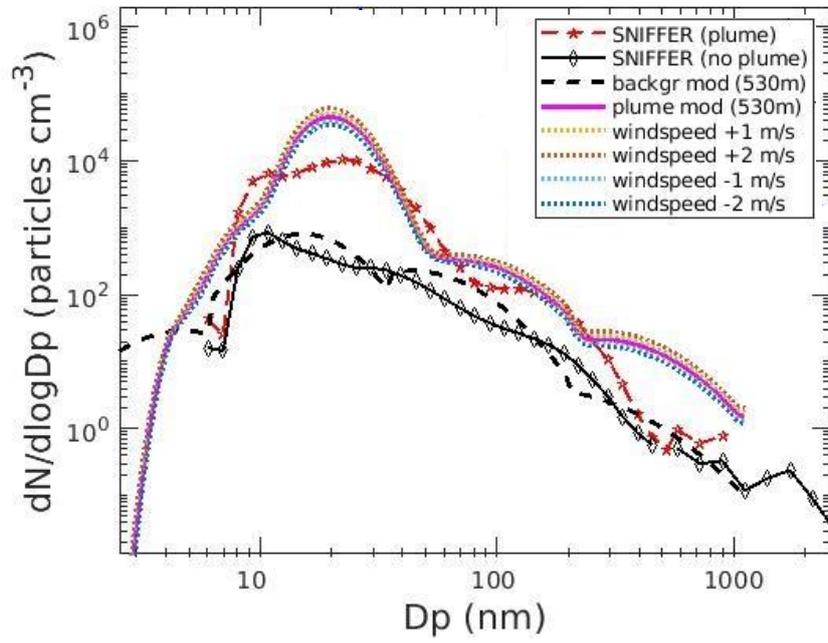


Figure S5: Ship plume at 03.09.2021 17:41:40 UTC with changing wind speed.

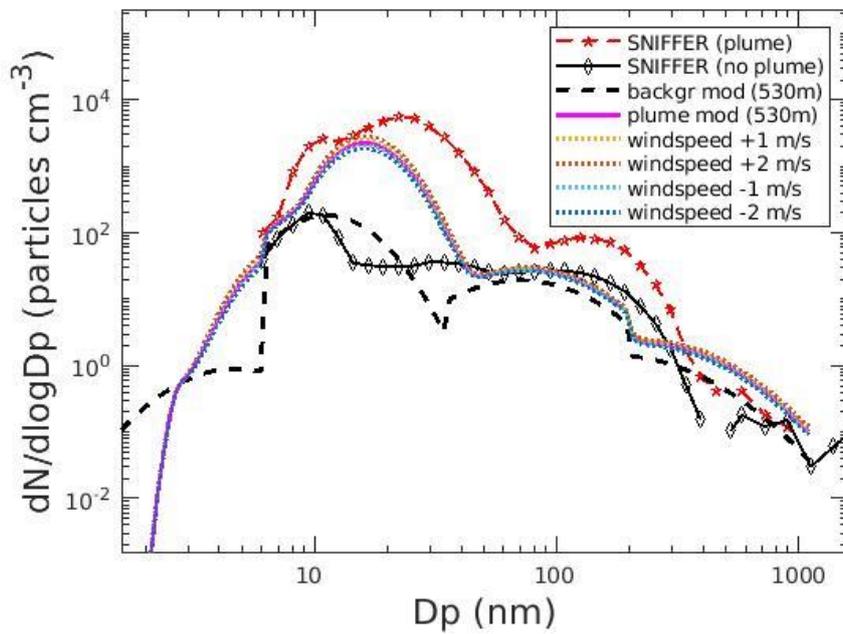


Figure S6: Ship plume at 08.07.2022 17:22:10 UTC with changing wind speed.

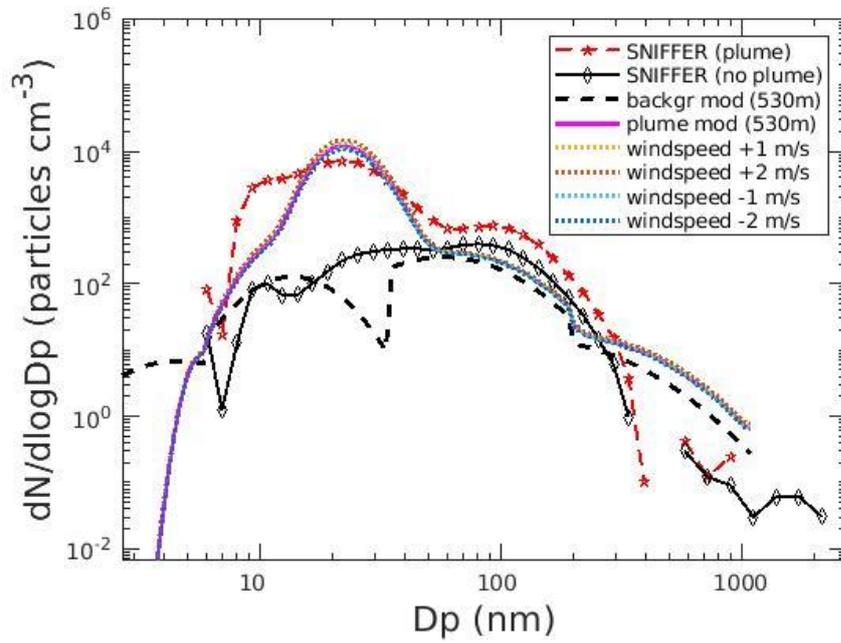


Figure S7: Ship plume at 24.07.2022 16:28:20 UTC with changing wind speed.

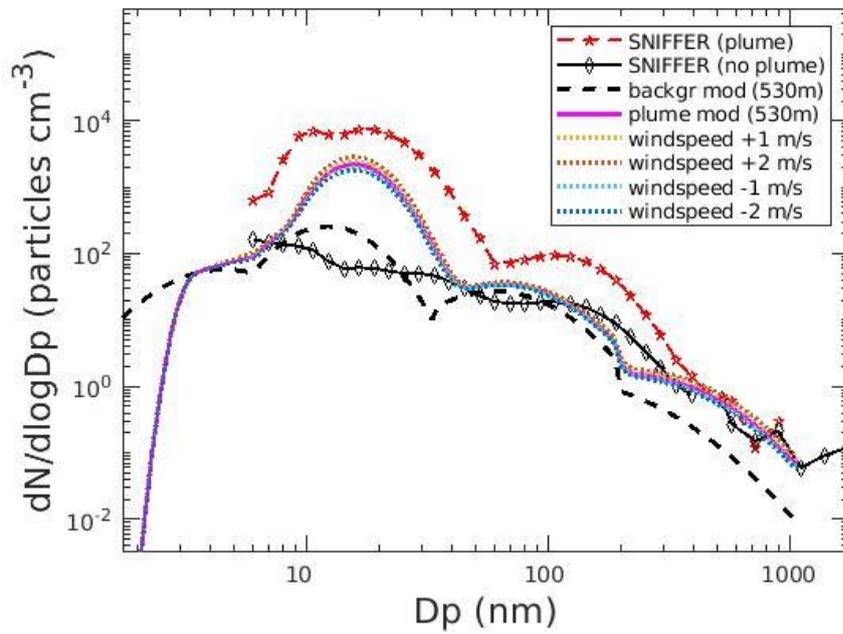


Figure S8: Ship plume at 26.07.2022 17:31:04 UTC with changing wind speed.

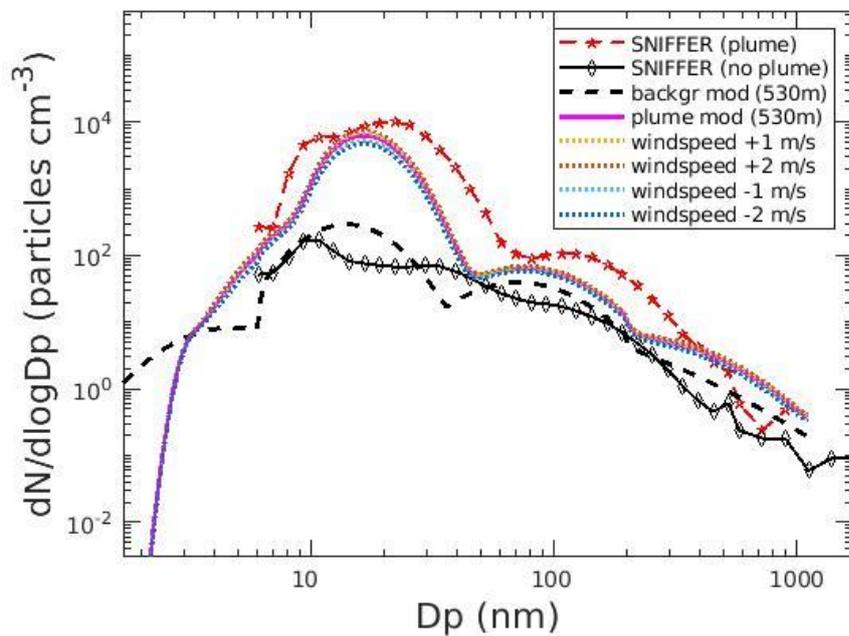


Figure S9: Ship plume at 08.10.2022 16:29:49 UTC with changing wind speed.

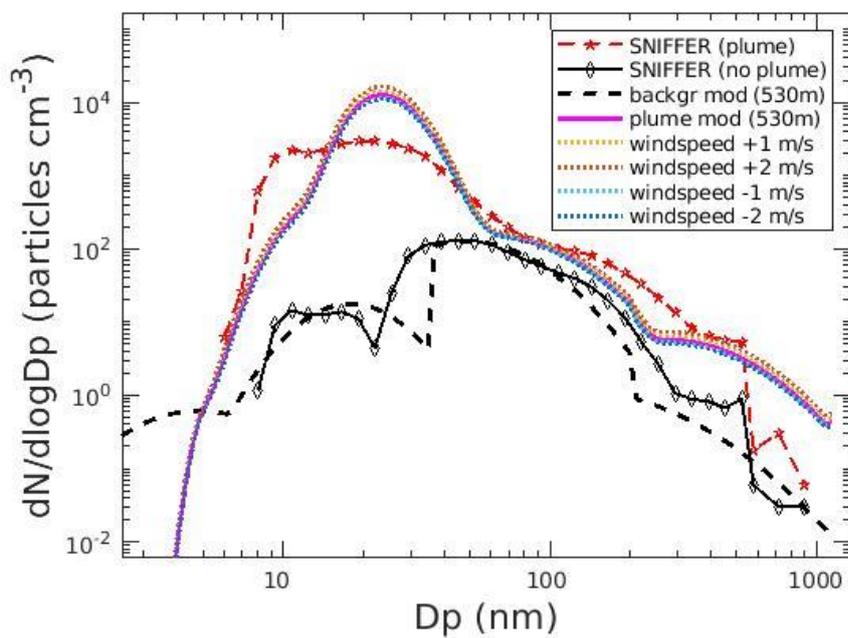


Figure S10: Ship plume at 19.07.2023 17:32:54 UTC with changing wind speed.

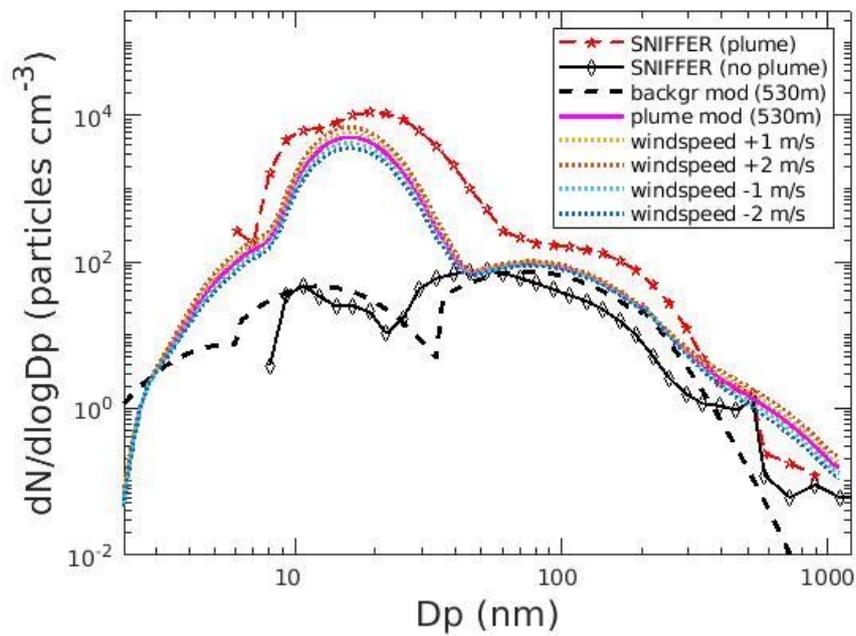


Figure S11: Ship plume at 29.07.2023 16:40:50 UTC with changing wind speed.

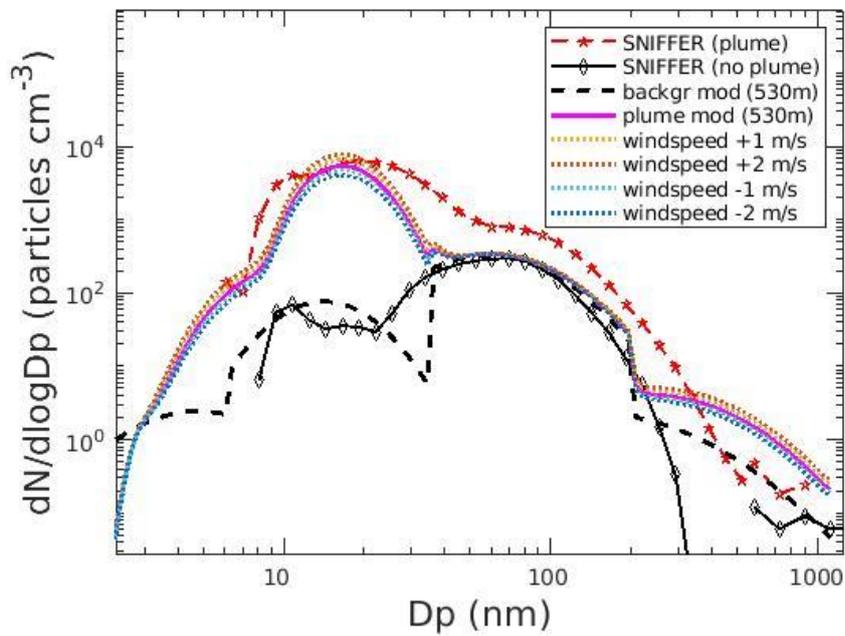


Figure S12: Ship plume at 26.08.2023 16:25:00 UTC with changing wind speed.

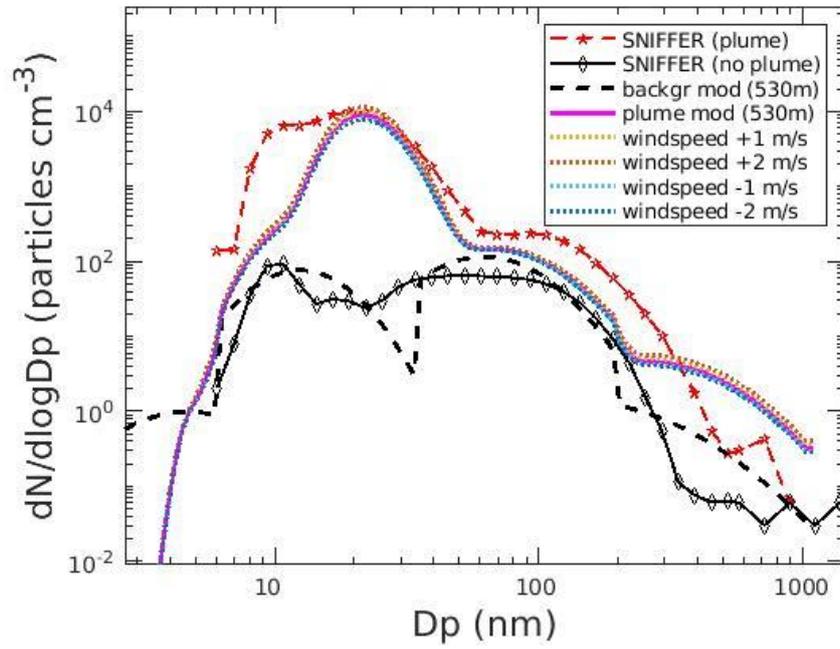


Figure S13: Ship plume at 28.08.2023 17:28:10 UTC with changing wind speed.

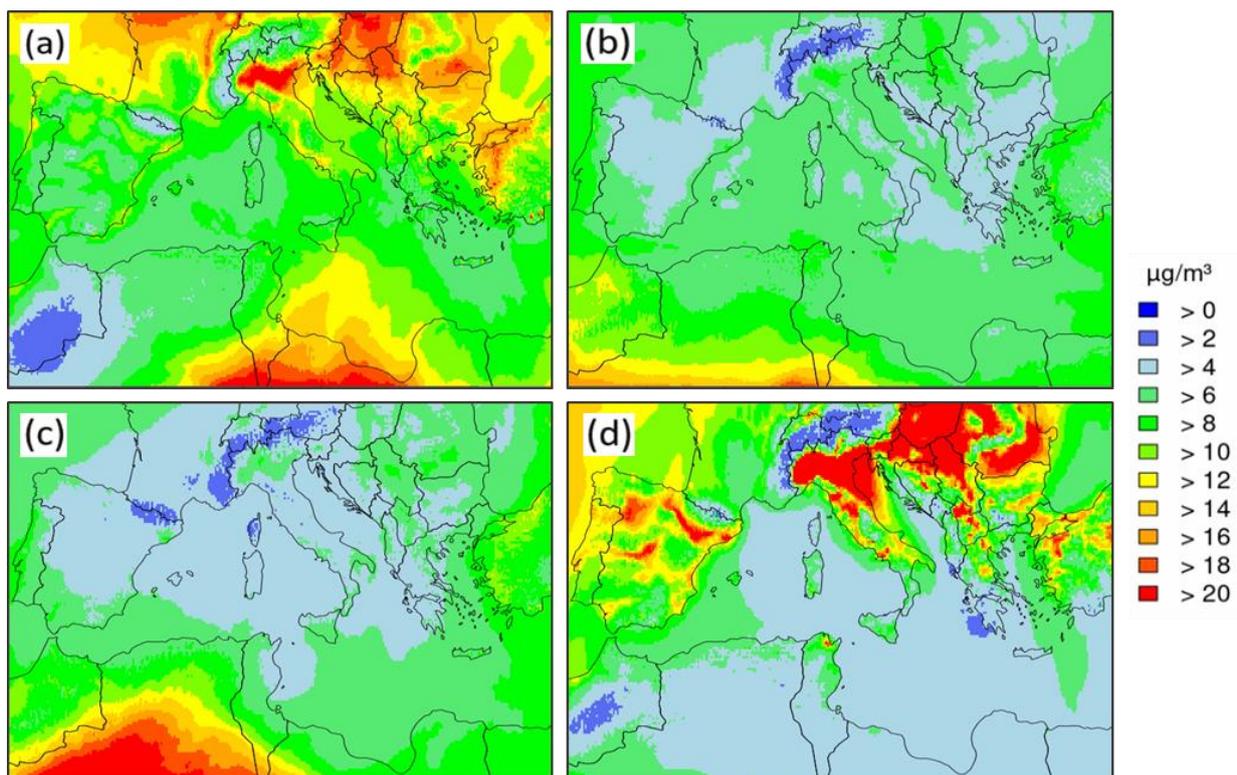


Figure S14: PM_{2.5} old absolute concentration, (a) mean value in March, (b) mean value in June, (c) mean value in September, (d) mean value in December.

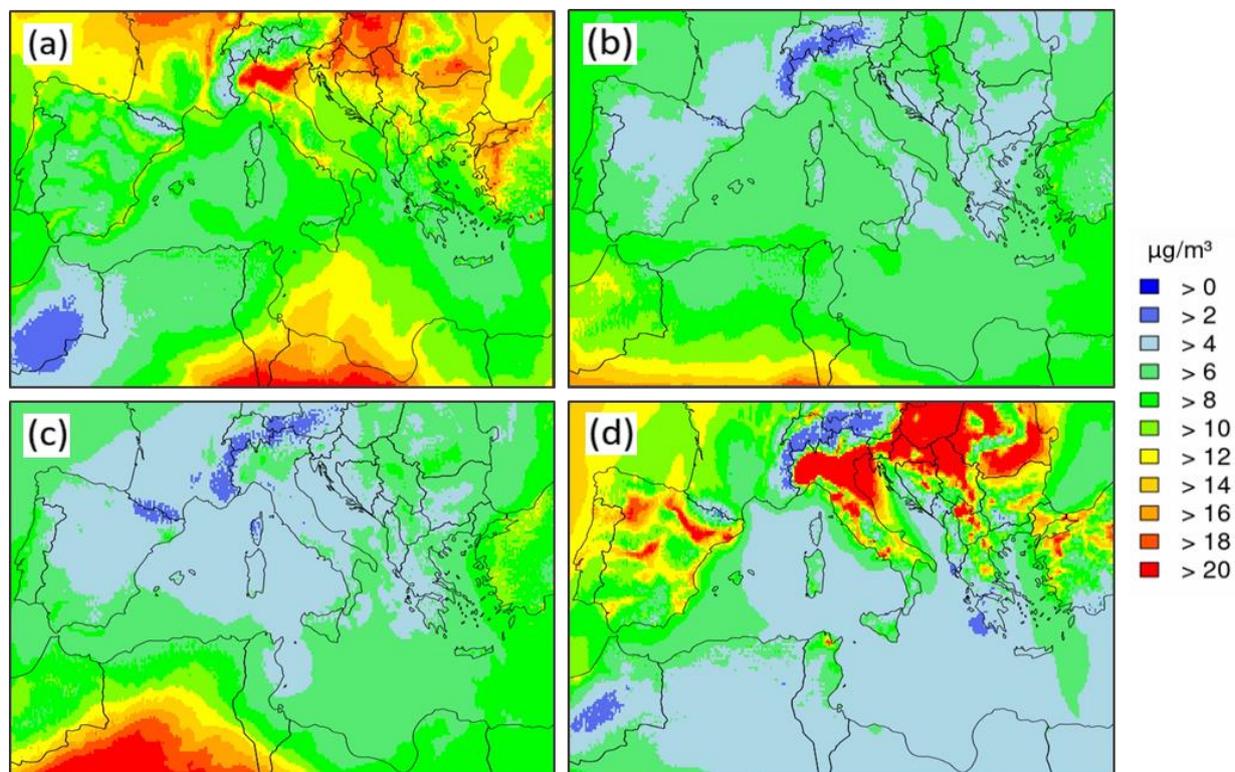


Figure S15: PM_{2.5} new absolute concentration, (a) mean value in March, (b) mean value in June, (c) mean value in September, (d) mean value in December.