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Population exposure to outdoor NO_2, black carbon, and ultrafine and fine particles over Paris with multi-scale modelling down to the street scale

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Table S1. Summary of measurement stations. Latitude and longitude are in decimal degrees.

	Stations	Latitude	Longitude	Operator	Measurements
Background stations	PA01H	48.862411	2.342397	Airparif	NO_2, eBC, PM_{25}, PNC
	TREMBLAY	48.955446	2.574190	Airparif	NO_2, eBC
	BOBIGNY	48.902411	2.452617	Airparif	NO_2, PM_{25}
	GONES	48.990858	2.444772	Airparif	NO_2, PM_{25}
	RURSE	48.456239	2.679397	Airparif	NO_2, PM_{25}
	PA07	48.857194	2.293278	Airparif	NO_2
	PA12	48.837194	2.393806	Airparif	NO_2
	PA13	48.828472	2.359558	Airparif	NO_2
	PA15L	48.830389	2.269886	Airparif	NO_2
	PA18	48.891728	2.345575	Airparif	NO_2, PM_{25}
	AUBERV	48.903944	2.384722	Airparif	NO_2
	ARGENT	48.951185	2.220357	Airparif	NO_2
	CHAMPIGNY	48.816692	2.516669	Airparif	NO_2
	EVRY	48.827639	2.326711	Airparif	NO_2
	LOGNES	48.840317	2.634661	Airparif	NO_2
	MANTES	48.996225	1.703297	Airparif	NO_2
	MELUN	48.528103	2.653947	Airparif	NO_2
	MONTGERON	48.706583	2.457083	Airparif	NO_2
	NEUILLY	48.881333	2.277317	Airparif	NO_2
	GEN	48.929822	2.291413	Airparif	NO_2, eBC, PM_{25}
	VITRY	48.775663	2.374005	Airparif	NO_2, PM_{25}
	PRG	48.827778	2.380562	ACROSS campaign	eBC, PNC
	RURN	49.108286	2.153188	Airparif	PM_{25}
	SIRTA	48.709890	2.147938	SIRTA	PNC
Traffic stations	HAUSS	48.873339	2.329603	Airparif	NO_2, eBC, PM_{25}
	BP_EST	48.838556	2.412694	Airparif	NO_2, eBC, PM_{25}
	AUTEUIL	48.850175	2.252322	Airparif	NO_2, PM_{25}
	CELES	48.852611	2.360125	Airparif	NO_2
	ELYS	48.868781	2.311633	Airparif	NO_2
	BONAP	48.856289	2.334467	Airparif	NO_2
	SOULT	48.837961	2.408061	Airparif	NO_2
	RN2	48.902006	2.390628	Airparif	NO_2
	BASCH	48.827639	2.326711	Airparif	NO_2
	HdV	48.855745	2.351848	sTREEt campaign	NO_2, eBC

Table S2. Statistical indicators for NO_2 concentrations simulated at the background stations in the REF, SEN, and EMEP simulations. Statistics in green text indicates that the most-strict criterion is met (|FB| < 0.3, 0.7 < MG < 1.3, NMSE < 3, VG < 1.6, NAD < 0.3, and FAC2 > 0.5). Statistics in blue text indicate the the less-strict criterion is met (|FB| < 0.67, NMSE < 6, NAD < 0.5, and FAC2 > 0.3), while statistics in red text indicates that the criterion is not met.

	Stations	Obs.	Sim.	FB	MG	NMSE	VG	NAD	FAC2	R	RMSE	NMB (%)	NME (%)
REF & SEN	PA01H	17.5	16.2	-0.07	0.98	0.10	1.08	0.12	0.98	0.70	5.5	-7	23
	TREMBLAY	15.7	10.8	-0.36	0.70	0.27	1.27	0.20	0.87	0.22	6.8	-31	34
	BOBIGNY	18.0	15.9	-0.12	0.94	0.18	1.14	0.15	0.91	0.37	7.2	-11	29
	GONES	15.0	17.5	0.15	1.20	0.11	1.11	0.13	0.97	0.65	5.5	17	28
	RURSE	4.0	4.3	0.09	1.11	0.12	1.13	0.13	0.93	0.50	1.4	10	28
	PA07	22.5	18.1	-0.22	0.82	0.13	1.12	0.14	1.00	0.64	7.2	-20	25
	PA12	14.0	18.5	0.27	1.38	0.19	1.25	0.17	0.88	0.53	7.0	31	40
	PA13	14.6	17.4	0.17	1.23	0.11	1.12	0.13	0.98	0.63	5.3	19	29
	PA15L	13.4	15.6	0.15	1.21	0.12	1.13	0.14	1.00	0.65	5.1	17	30
	PA18	20.5	17.2	-0.18	0.89	0.18	1.12	0.14	0.93	0.56	7.9	-16	26
	AUBERV	20.6	21.2	0.03	1.09	0.11	1.10	0.13	1.00	0.60	6.9	3	26
	ARGENT	17.1	12.4	-0.32	0.76	0.37	1.29	0.22	0.81	0.55	8.9	-27	38
	CHAMPIGNY	16.1	12.2	-0.28	0.76	0.23	1.24	0.17	0.88	0.28	6.7	-25	30
	EVRY	13.9	16.0	0.14	1.20	0.14	1.19	0.15	0.90	0.38	5.6	15	33
	LOGNES	13.3	12.8	-0.04	0.97	0.09	1.08	0.11	0.98	0.53	4.0	-4	22
	MANTES	11.8	6.4	-0.60	0.57	0.71	1.55	0.30	0.60	0.62	7.3	-46	47
	MELUN	10.0	15.2	0.42	1.52	0.30	1.35	0.22	0.82	0.39	6.7	52	55
	MONTGERON	9.9	8.4	-0.16	0.88	0.22	1.19	0.16	0.88	0.34	4.3	-15	30
	NEUILLY	16.1	26.9	0.50	1.84	0.39	1.66	0.28	0.58	0.71	13.1	67	74
	GEN	16.2	14.3	-0.13	0.96	0.20	1.11	0.14	0.92	0.75	6.8	-12	26
	VITRY	14.4	12.2	-0.16	0.88	0.16	1.13	0.14	0.97	0.47	5.3	-15	27
EMEP	PA01H	17.5	20.0	0.13	1.20	0.10	1.13	0.13	0.95	0.65	6.0	14	29
	TREMB	15.7	19.1	0.20	1.22	0.14	1.15	0.14	0.95	0.42	6.4	22	31
	BOBI	18.0	19.2	0.06	1.12	0.15	1.15	0.15	0.93	0.40	7.1	7	30
	GONES	15.0	15.5	0.03	1.02	0.16	1.14	0.15	0.95	0.53	6.0	3	31
	RURSE	4.0	5.3	0.29	1.35	0.22	1.23	0.18	0.88	0.48	2.2	35	43
	PA07	22.5	21.6	-0.04	0.98	0.08	1.08	0.10	0.97	0.58	6.2	-4	20
	PA12	14.0	21.2	0.40	1.60	0.27	1.43	0.22	0.72	0.46	9.0	51	55
	PA13	14.6	22.3	0.42	1.59	0.26	1.35	0.22	0.78	0.57	9.1	52	56
	PA15L	13.4	21.9	0.48	1.73	0.33	1.49	0.25	0.75	0.64	9.9	64	65
	PA18	20.5	21.2	0.03	1.09	0.11	1.12	0.13	0.98	0.60	6.9	3	27
	AUBERV	20.6	19.4	-0.06	0.99	0.12	1.09	0.12	0.98	0.62	6.8	-5	23
	ARGENT	17.1	12.5	-0.31	0.76	0.29	1.20	0.19	0.96	0.73	7.8	-27	32
	CHAMPIGNY	16.1	14.2	-0.13	0.89	0.14	1.13	0.14	0.93	0.35	5.7	-12	25
	EVRY	13.9	22.0	0.45	1.66	0.32	1.48	0.24	0.71	0.42	9.9	59	61

	LOGNES	13.3	13.6	**0.03**	**1.04**	**0.09**	**1.09**	**0.12**	**0.98**	0.49	4.1	3	23
	MANTES	11.8	9.3	**-0.23**	**0.83**	**0.25**	**1.16**	**0.17**	**0.93**	0.64	5.2	-21	30
	MELUN	10.0	13.2	**0.27**	**1.33**	**0.18**	**1.21**	**0.16**	**0.88**	0.39	4.8	32	37
	MONTGERON	9.9	12.0	**0.19**	**1.26**	**0.20**	**1.24**	**0.18**	**0.85**	0.34	4.9	21	39
	NEUILLY	16.1	24.7	**0.42**	**1.72**	**0.33**	**1.59**	**0.25**	**0.65**	0.64	11.4	54	64
	GEN	16.2	16.9	**0.04**	**1.12**	**0.16**	**1.13**	**0.13**	**0.95**	0.70	6.6	4	27
	VITRY	14.4	22.4	**0.43**	**1.62**	**0.29**	**1.40**	**0.23**	**0.68**	0.49	9.7	55	59

Table S3. Statistical indicators for $eBC_{2.5}$ concentrations simulated at the background stations in the REF, SEN, and EMEP simulations. Statistics in green text indicates that the most-strict criterion is met (|FB| < 0.3, 0.7 < MG < 1.3, NMSE < 3, VG < 1.6, NAD < 0.3, and FAC2 > 0.5). Statistics in blue text indicate the the less-strict criterion is met (|FB| < 0.67, NMSE < 6, NAD < 0.5, and FAC2 > 0.3), while statistics in red text indicates that the criterion is not met.

	Stations	Obs.	Sim.	FB	MG	NMSE	VG	NAD	FAC2	R	RMSE	NMB (%)	NME (%)
REF	PA01H	0.44	0.42	**-0.06**	**1.01**	**0.13**	**1.12**	**0.14**	**0.97**	0.64	0.16	-6	27
	TREMB	0.50	0.29	**-0.52**	**0.61**	**0.55**	**1.48**	**0.28**	**0.64**	0.25	0.28	-41	44
	GEN	0.52	0.36	**-0.37**	**0.76**	**0.47**	**1.22**	**0.21**	**0.83**	0.69	0.30	-31	36
SEN	PA01H	0.44	0.39	**-0.11**	**0.96**	**0.15**	**1.12**	**0.14**	**0.97**	0.64	0.16	-11	27
	TREMB	0.50	0.28	**-0.55**	**0.59**	**0.60**	**1.55**	**0.29**	**0.63**	0.23	0.29	-43	46
	GEN	0.52	0.34	**-0.42**	**0.72**	**0.55**	**1.27**	**0.23**	**0.85**	0.68	0.31	-35	38
EMEP	PA01H	0.44	0.64	**0.37**	**1.57**	**0.24**	**1.39**	**0.21**	**0.76**	0.60	0.26	46	53
	TREMB	0.50	0.46	**-0.07**	**0.97**	**0.13**	**1.12**	**0.14**	**0.95**	0.48	0.18	-7	26
	GEN	0.52	0.54	**0.03**	**1.14**	**0.18**	**1.15**	**0.15**	**0.98**	0.71	0.23	3	31

Table S4. Statistical indicators for eBC_1 concentrations simulated at the background stations in the REF, SEN, and EMEP simulations. Statistics in green text indicates that the most-strict criterion is met (|FB| < 0.3, 0.7 < MG < 1.3, NMSE < 3, VG < 1.6, NAD < 0.3, and FAC2 > 0.5). Statistics in blue text indicate the the less-strict criterion is met (|FB| < 0.67, NMSE < 6, NAD < 0.5, and FAC2 > 0.3), while statistics in red text indicates that the criterion is not met.

	Stations	Obs.	Sim.	FB	MG	NMSE	VG	NAD	FAC2	R	RMSE	NMB (%)	NME (%)
REF	PRG	0.25	0.36	**0.33**	**1.49**	**0.24**	**1.36**	**0.21**	**0.78**	0.38	0.15	40	51
SEN	PRG	0.25	0.35	**0.32**	**1.48**	**0.23**	**1.35**	**0.21**	**0.78**	0.38	0.14	38	50
EMEP	PRG	0.25	0.49	**0.63**	**2.06**	**0.56**	**2.00**	**0.31**	**0.48**	0.21	0.26	91	92

Table S5. Statistical indicators for $PM_{2.5}$ concentrations simulated at the background stations in the REF, SEN, and EMEP simulations. Statistics in green text indicates that the most-strict criterion is met (|FB| < 0.3, 0.7 < MG < 1.3, NMSE < 3, VG < 1.6, NAD < 0.3, and FAC2 > 0.5). Statistics in blue text indicate the the less-strict criterion is met (|FB| < 0.67, NMSE < 6, NAD < 0.5, and FAC2 > 0.3), while statistics in red text indicates that the criterion is not met.

	Stations	Obs.	Sim.	FB	MG	NMSE	VG	NAD	FAC2	R	RMSE	NMB (%)	NME (%)
REF	PA01H	9.30	6.48	**-0.36**	**0.73**	**0.29**	**1.19**	**0.18**	**0.92**	0.73	4.2	-30	31
	BOBI	6.14	6.80	**0.10**	**1.19**	**0.10**	**1.15**	**0.13**	**0.93**	0.73	2.0	11	27
	GONES	7.47	6.57	**-0.13**	**0.90**	**0.08**	**1.07**	**0.10**	**0.98**	0.73	2.0	-12	19
	RURSE	5.88	8.15	**0.32**	**1.41**	**0.24**	**1.24**	**0.18**	**0.85**	0.65	3.4	39	44
	PA18	9.54	6.53	**-0.37**	**0.71**	**0.26**	**1.20**	**0.19**	**0.88**	0.73	4.0	-31	32
	GEN	7.10	6.36	**-0.11**	**0.97**	**0.20**	**1.13**	**0.14**	**0.97**	0.68	3.0	-10	27
	VITRY	6.67	6.11	**-0.09**	**0.98**	**0.16**	**1.11**	**0.13**	**0.97**	0.71	2.6	-8	25
	RURN	5.49	7.09	**0.25**	**1.39**	**0.24**	**1.31**	**0.19**	**0.85**	0.62	3.1	29	43
SEN	PA01H	9.30	6.34	**-0.38**	**0.72**	**0.31**	**1.21**	**0.19**	**0.90**	0.73	4.3	-32	33
	BOBI	6.14	6.69	**0.09**	**1.17**	**0.10**	**1.14**	**0.12**	**0.93**	0.73	2.0	9	26
	GONES	7.47	6.51	**-0.14**	**0.89**	**0.09**	**1.07**	**0.10**	**0.98**	0.73	2.0	-13	19
	RURSE	5.88	8.12	**0.32**	**1.40**	**0.24**	**1.23**	**0.18**	**0.87**	0.65	3.4	38	43
	PA18	9.54	6.38	**-0.40**	**0.69**	**0.28**	**1.23**	**0.20**	**0.88**	0.73	4.2	-33	33
	GEN	7.10	6.23	**-0.13**	**0.95**	**0.21**	**1.13**	**0.15**	**0.95**	0.69	3.0	-12	27
	VITRY	6.67	5.99	**-0.11**	**0.96**	**0.17**	**1.11**	**0.13**	**0.97**	0.72	2.6	-10	25
	RURN	5.49	7.06	**0.25**	**1.39**	**0.24**	**1.31**	**0.19**	**0.85**	0.62	3.0	29	43
EMEP	PA01H	9.30	7.20	**-0.25**	**0.82**	**0.21**	**1.13**	**0.15**	**0.93**	0.71	3.7	-23	26
	BOBI	6.14	6.86	**0.11**	**1.20**	**0.11**	**1.16**	**0.13**	**0.93**	0.71	2.1	12	27
	GONES	7.47	6.99	**-0.07**	**0.95**	**0.07**	**1.06**	**0.10**	**0.98**	0.71	1.9	-6	19
	RURSE	5.88	8.59	**0.37**	**1.48**	**0.28**	**1.29**	**0.21**	**0.78**	0.64	3.8	46	51
	PA18	9.54	7.25	**-0.27**	**0.79**	**0.19**	**1.14**	**0.16**	**0.95**	0.69	3.6	-24	28
	GEN	7.10	6.81	**-0.04**	**1.05**	**0.18**	**1.13**	**0.14**	**0.97**	0.67	2.9	-4	28
	VITRY	6.67	7.00	**0.05**	**1.13**	**0.14**	**1.13**	**0.14**	**0.93**	0.71	2.5	5	29
	RURN	5.49	7.64	**0.33**	**1.49**	**0.30**	**1.39**	**0.21**	**0.82**	0.60	3.5	39	50

Table S6. Statistical indicators for PNC concentrations simulated at the background stations in the REF, SEN, and EMEP simulations. Statistics in green text indicates that the most-strict criterion is met (|FB| < 0.3, 0.7 < MG < 1.3, NMSE < 3, VG < 1.6, NAD < 0.3, and FAC2 > 0.5). Statistics in blue text indicate the the less-strict criterion is met (|FB| < 0.67, NMSE < 6, NAD < 0.5, and FAC2 > 0.3), while statistics in red text indicates that the criterion is not met.

	Stations	Obs.	Sim.	FB	MG	NMSE	VG	NAD	FAC2	R	RMSE	NMB (%)	NME (%)
REF	SIRTA	6,041	5,909	**-0.02**	**1.10**	**0.15**	**1.37**	**0.15**	**0.94**	0.57	2,318	-2	31
	PRG	9,276	10,474	**0.12**	**1.16**	**0.07**	**1.09**	**0.10**	**1.00**	0.53	2,639	13	22
	PA01H	9,212	8,137	**-0.12**	**0.91**	**0.07**	**1.06**	**0.10**	**1.00**	0.67	2,310	-12	20
SEN	SIRTA	6,041	5,892	**-0.02**	**1.09**	**0.15**	**1.37**	**0.12**	**0.98**	0.57	2,323	-2	31
	PRG	9,276	10,411	**0.12**	**1.15**	**0.07**	**1.09**	**0.15**	**0.94**	0.53	2,607	12	22
	PA01H	9,212	8,111	**-0.13**	**0.90**	**0.07**	**1.06**	**0.10**	**1.00**	0.67	2,321	-12	20
EMEP	SIRTA	6,041	6,521	**0.08**	**1.19**	**0.15**	**1.39**	**0.11**	**1.00**	0.56	2,390	8	30
	PRG	9,276	12,477	**0.29**	**1.39**	**0.17**	**1.23**	**0.12**	**0.98**	0.16	4,393	35	39
	PA01H	9,212	12,834	**0.33**	**1.43**	**0.16**	**1.21**	**0.17**	**0.92**	0.60	4,287	39	41

Table S7. Statistical indicators for NO_2 concentrations simulated at the traffic stations in the REF and SEN simulations. Statistics in green text indicates that the most-strict criterion is met (|FB| < 0.3, 0.7 < MG < 1.3, NMSE < 3, VG < 1.6, NAD < 0.3, and FAC2 > 0.5). Statistics in blue text indicate the the less-strict criterion is met (|FB| < 0.67, NMSE < 6, NAD < 0.5, and FAC2 > 0.3), while statistics in red text indicates that the criterion is not met.

	Stations	Obs.	Sim.	FB	MG	NMSE	VG	NAD	FAC2	R	RMSE	NMB (%)	NME (%)
REF & SEN	HAUSS	37.6	41.4	**0.10**	**0.85**	**0.14**	**1.16**	**0.15**	**0.92**	0.53	14.8	10	31
	BP_EST	50.5	45.1	**-0.11**	**1.02**	**0.20**	**1.22**	**0.17**	**0.87**	0.47	21.2	-11	33
	AUT	72.1	41.7	**-0.53**	**1.71**	**0.39**	**1.38**	**0.27**	**0.87**	0.70	34.4	-42	42
	CELES	42.5	51.8	**0.20**	**0.79**	**0.10**	**1.14**	**0.14**	**0.95**	0.63	15.0	22	31
	ELYS	26.6	24.3	**-0.09**	**1.04**	**0.16**	**1.10**	**0.12**	**0.95**	0.57	10.1	-9	23
	BONAP	31.7	31.2	**-0.01**	**0.96**	**0.08**	**1.09**	**0.11**	**0.97**	0.69	8.9	-1	22
	SOULT	29.0	27.8	**-0.03**	**0.97**	**0.09**	**1.10**	**0.11**	**0.97**	0.70	8.6	-3	22
	RN2	38.7	41.6	**0.07**	**0.88**	**0.12**	**1.15**	**0.14**	**0.93**	0.50	14.1	8	30
	BASCH	41.8	37.3	**-0.12**	**1.08**	**0.09**	**1.07**	**0.10**	**1.00**	0.73	12.1	-11	20
	HdV	29.9	41.2	**0.35**	**0.65**	**0.18**	**1.31**	**0.18**	**0.81**	0.81	15.0	43	45

Table S8. Statistical indicators for eBC concentrations simulated at the traffic stations in the REF and SEN simulations. Statistics in green text indicates that the most-strict criterion is met (|FB| < 0.3, 0.7 < MG < 1.3, NMSE < 3, VG < 1.6, NAD < 0.3, and FAC2 > 0.5). Statistics in blue text indicate the the less-strict criterion is met (|FB| < 0.67, NMSE < 6, NAD < 0.5, and FAC2 > 0.3), while statistics in red text indicates that the criterion is not met.

	Stations	Obs.	Sim.	FB	MG	NMSE	VG	NAD	FAC2	R	RMSE	NMB (%)	NME (%)
REF	HAUSS	0.79	0.89	**0.11**	**0.84**	**0.14**	**1.19**	**0.15**	**0.93**	0.43	0.32	11	33
	BP_EST	2.31	1.92	**-0.19**	**1.11**	**0.19**	**1.19**	**0.17**	**0.88**	0.50	0.91	-17	31
	HdV	0.68	0.97	**0.33**	**0.66**	**0.27**	**1.32**	**0.24**	**0.85**	0.31	0.42	40	57
SEN	HAUSS	0.79	0.81	**0.01**	**0.92**	**0.15**	**1.16**	**0.15**	**0.95**	0.42	0.31	1	30
	BP_EST	2.31	1.62	**-0.35**	**1.31**	**0.31**	**1.27**	**0.22**	**0.81**	0.51	1.08	-30	38
	HdV	0.68	0.87	**0.21**	**0.75**	**0.23**	**1.21**	**0.20**	**0.92**	0.29	0.36	24	44

Table S9. Statistical indicators for $PM_{2.5}$ concentrations simulated at the traffic stations in the REF and SEN simulations. Statistics in green text indicates that the most-strict criterion is met (|FB| < 0.3, 0.7 < MG < 1.3, NMSE < 3, VG < 1.6, NAD < 0.3, and FAC2 > 0.5). Statistics in blue text indicate the the less-strict criterion is met (|FB| < 0.67, NMSE < 6, NAD < 0.5, and FAC2 > 0.3), while statistics in red text indicates that the criterion is not met.

	Stations	Obs.	Sim.	FB	MG	NMSE	VG	NAD	FAC2	R	RMSE	NMB (%)	NME (%)
REF	HAUSS	10.14	7.80	**-0.26**	**1.28**	**0.13**	**1.10**	**0.13**	**0.95**	0.78	3.3	-23	24
	BP_EST	10.22	12.11	**0.17**	**0.80**	**0.09**	**1.14**	**0.12**	**0.93**	0.66	3.3	18	26
	AUT	13.26	9.83	**-0.30**	**1.33**	**0.15**	**1.13**	**0.15**	**0.97**	0.73	4.4	-26	27
SEN	HAUSS	10.14	7.25	**-0.33**	**1.38**	**0.18**	**1.15**	**0.17**	**0.95**	0.78	3.7	-28	28
	BP_EST	10.22	9.91	**-0.03**	**0.99**	**0.07**	**1.08**	**0.11**	**0.98**	0.70	2.6	-3	22
	AUT	13.26	8.52	**-0.44**	**1.55**	**0.27**	**1.26**	**0.22**	**0.92**	0.73	5.5	-36	36

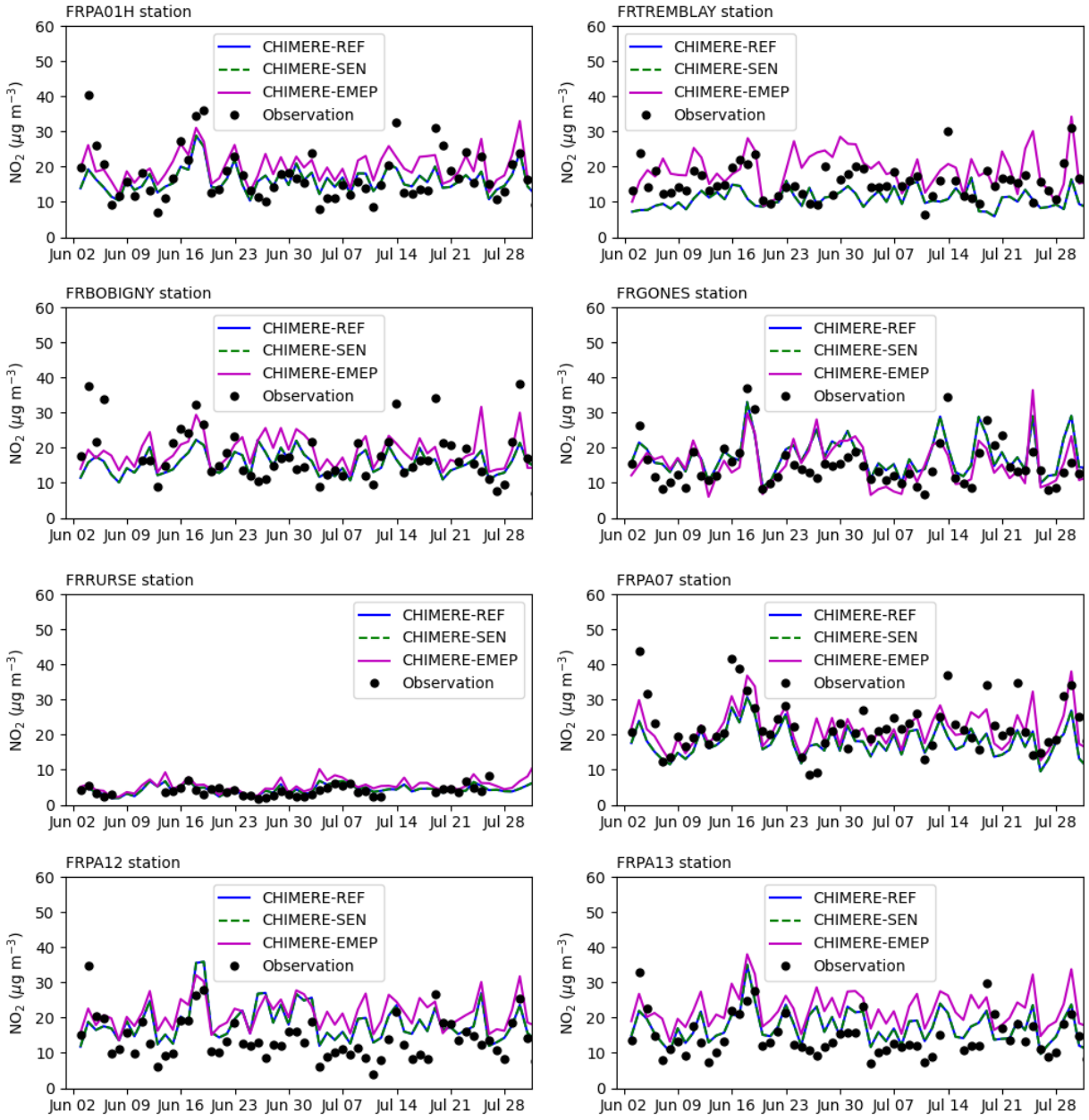

Figure S1. Time series of measured and simulated NO_2 concentrations at background stations.

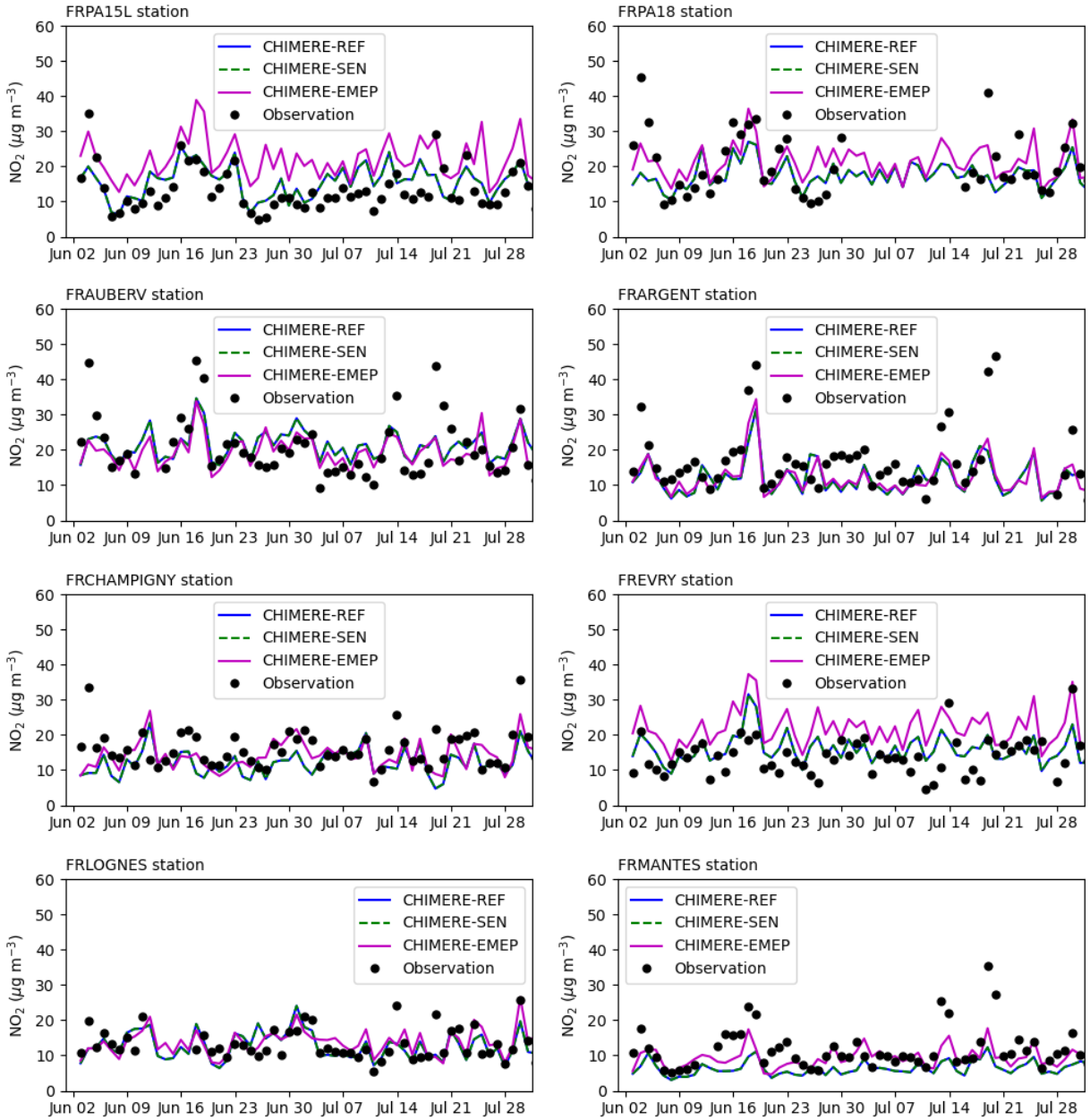

Figure S1. (continue)

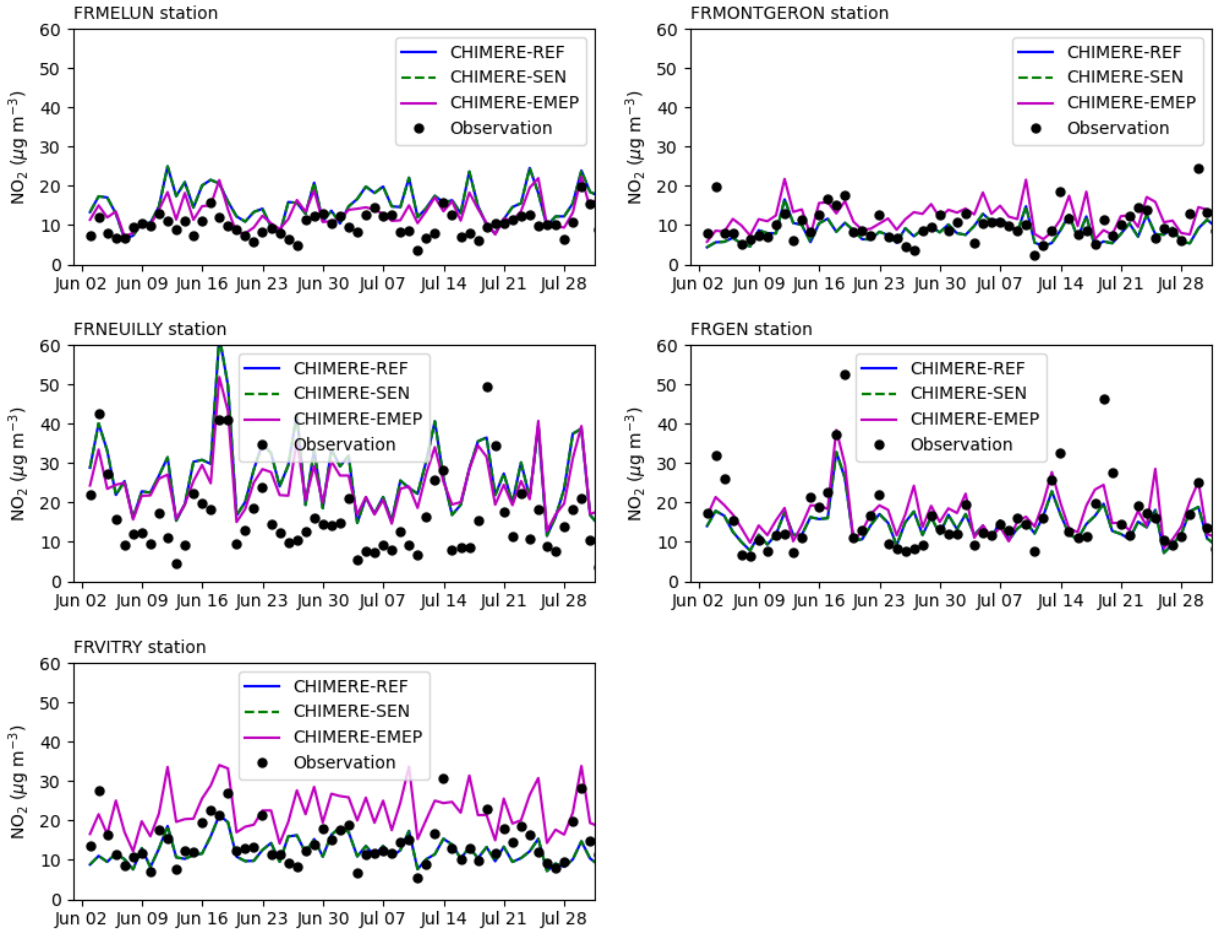

Figure S1. (continued, end) Time series of measured and simulated NO_2 concentrations at background stations.

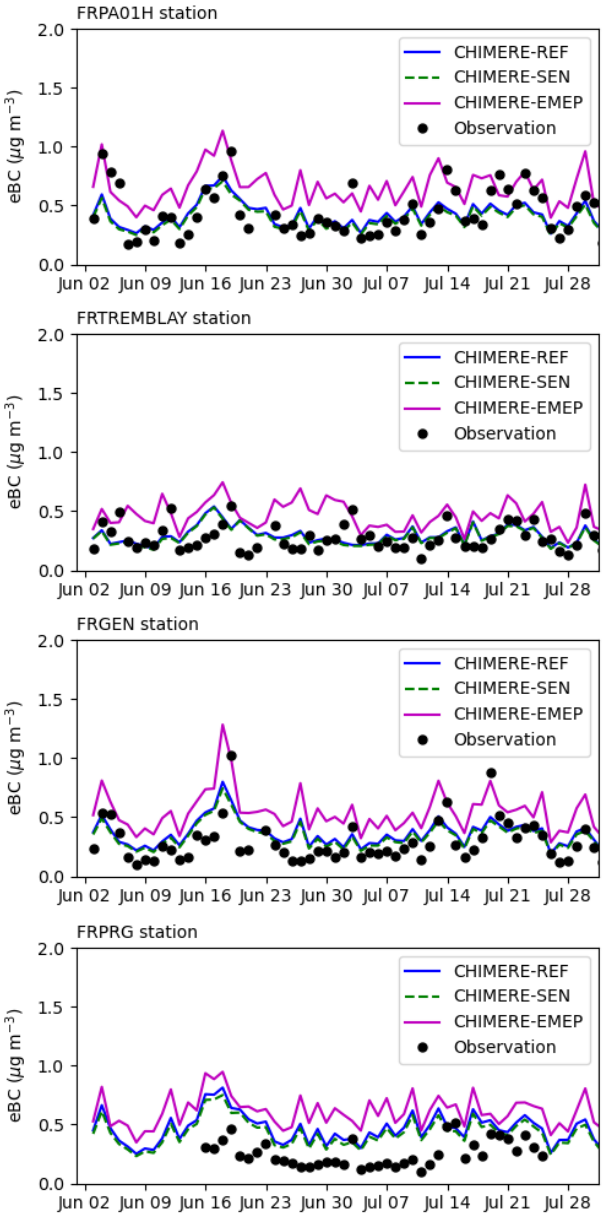

Figure S2. Time series of measured and simulated eBC concentrations at background stations.

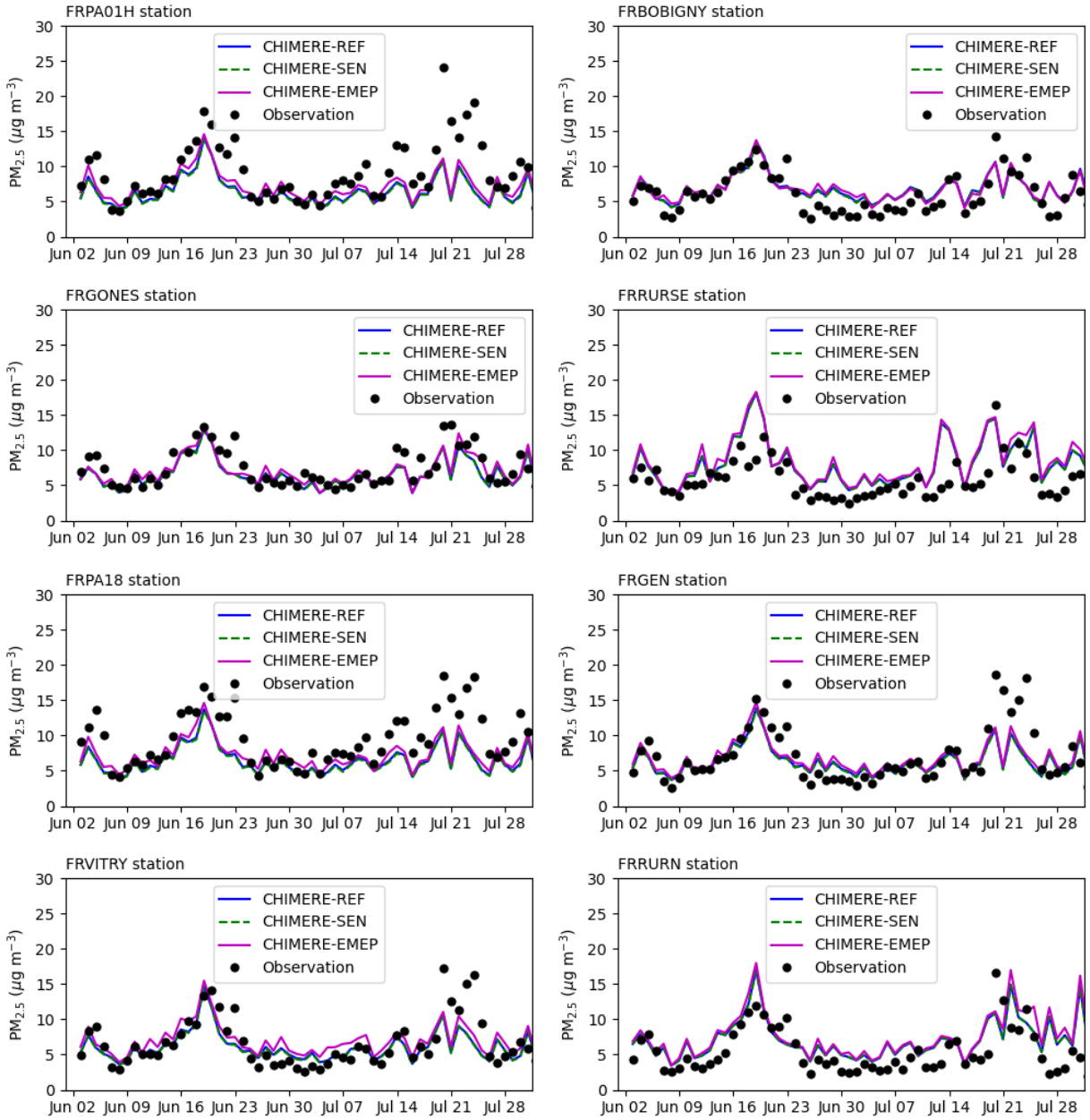

Figure S3. Time series of measured and simulated PM_{25} concentrations at background stations.

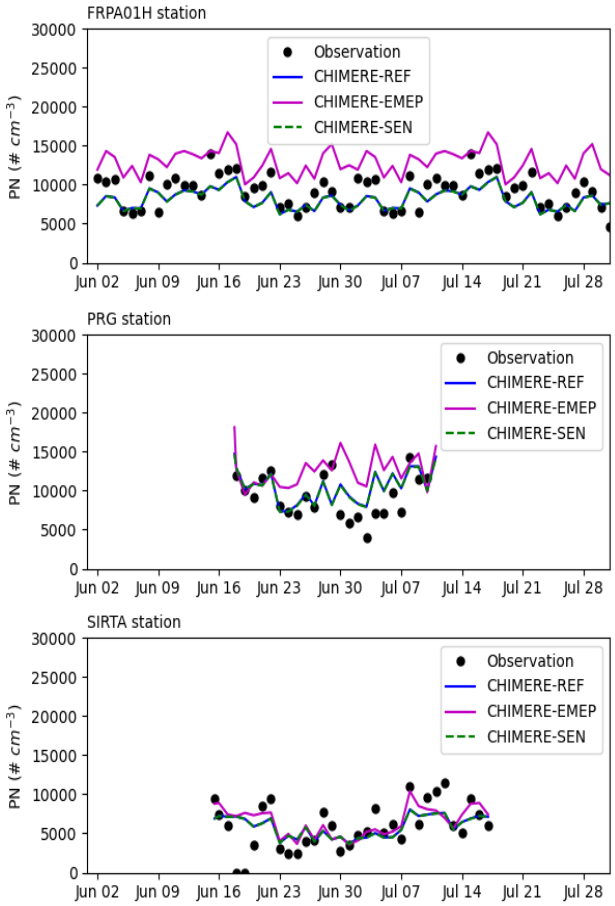

Figure S4. Time series of measured and simulated PN concentrations at background stations.

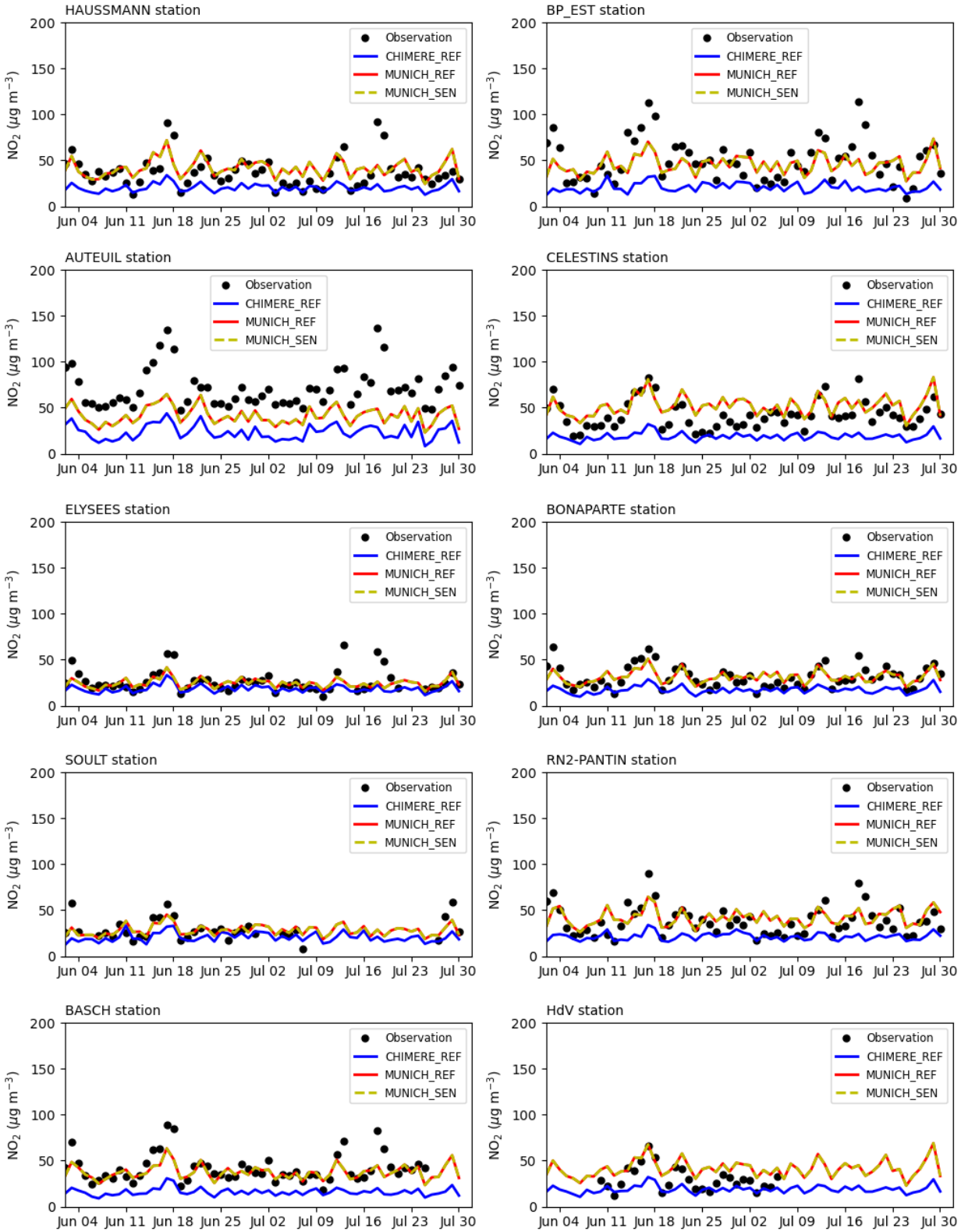

Figure S5. Time series of measured and simulated NO_2 concentrations at traffic stations.

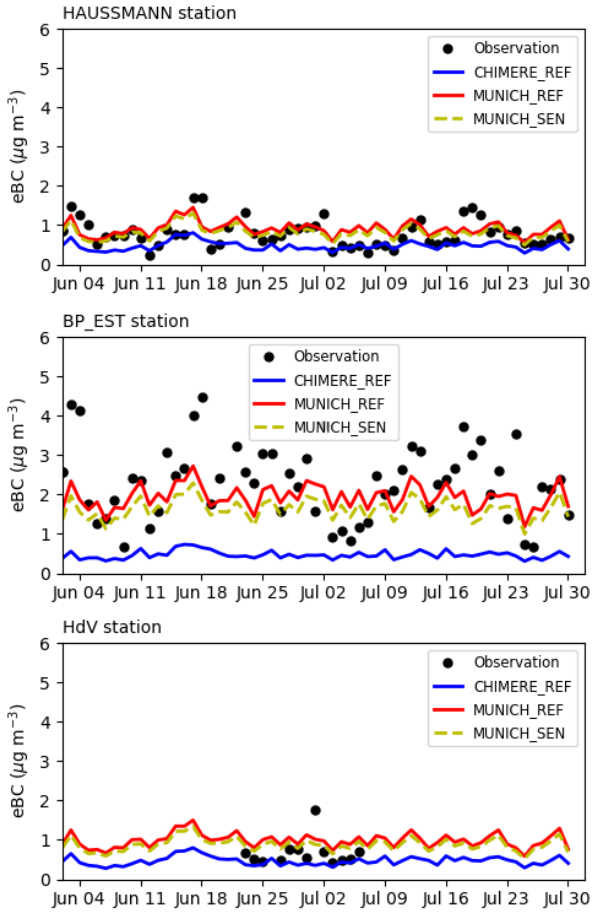

Figure S6. Time series of measured and simulated eBC concentrations at traffic station.

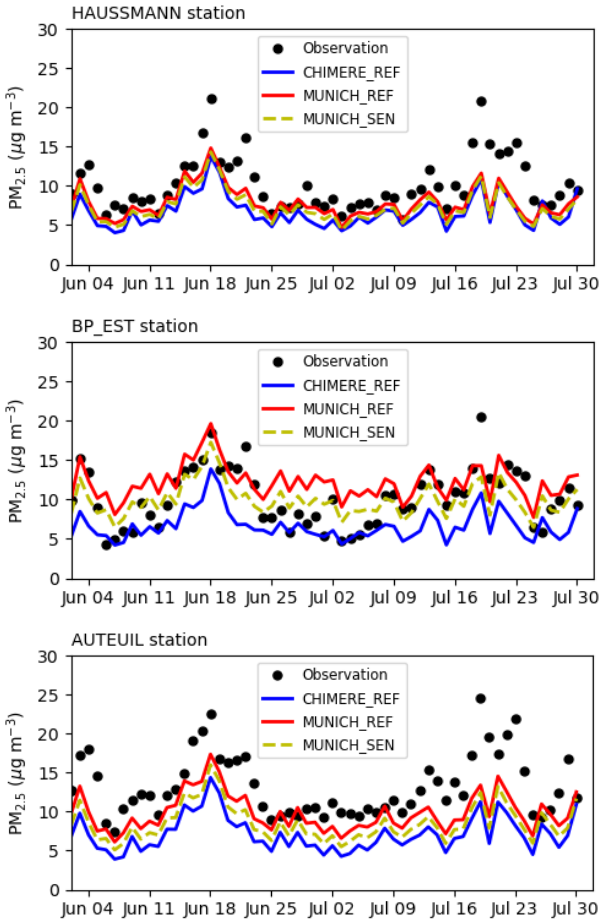

Figure S7. Time series of measured and simulated PM_{25} concentrations at traffic station.