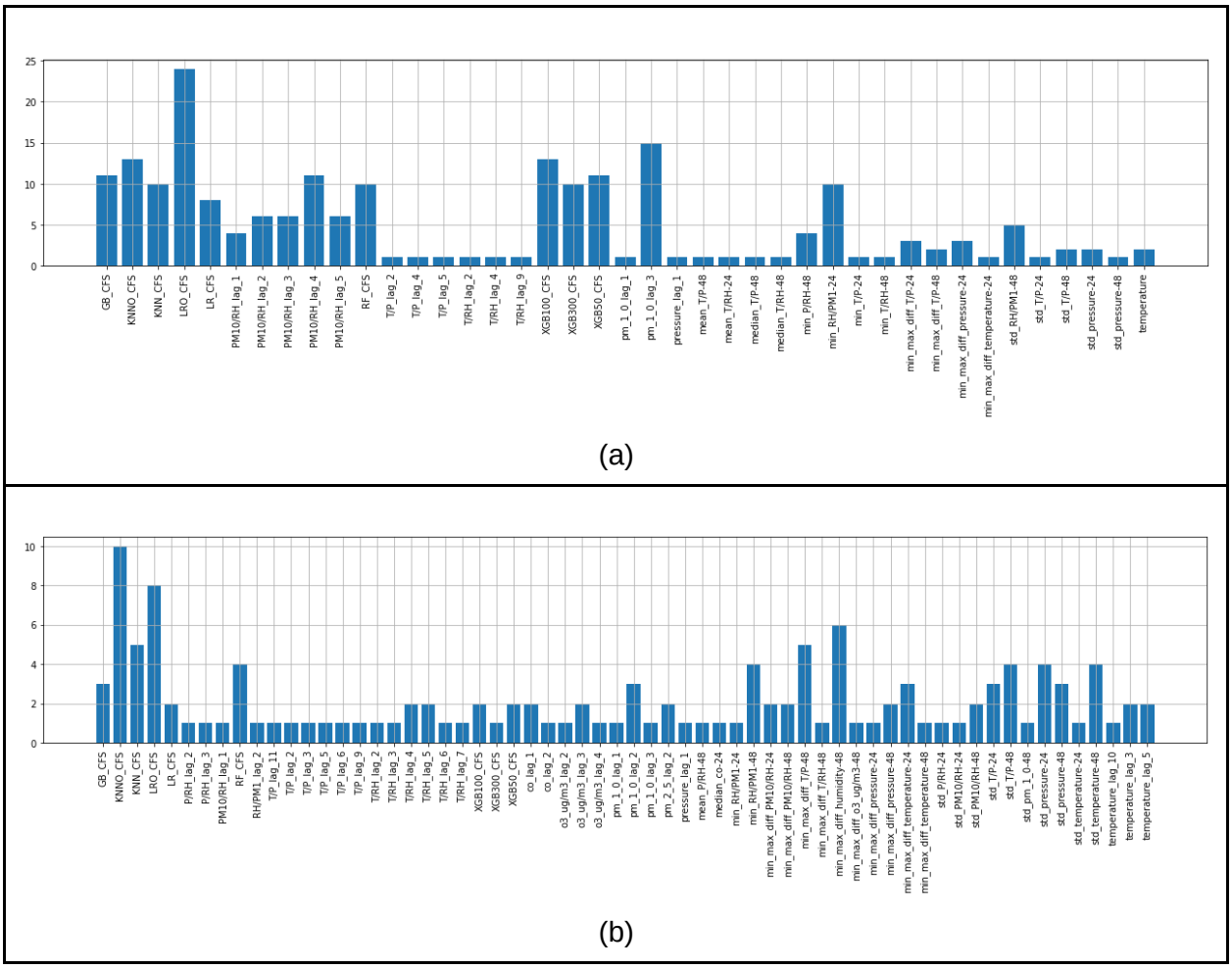
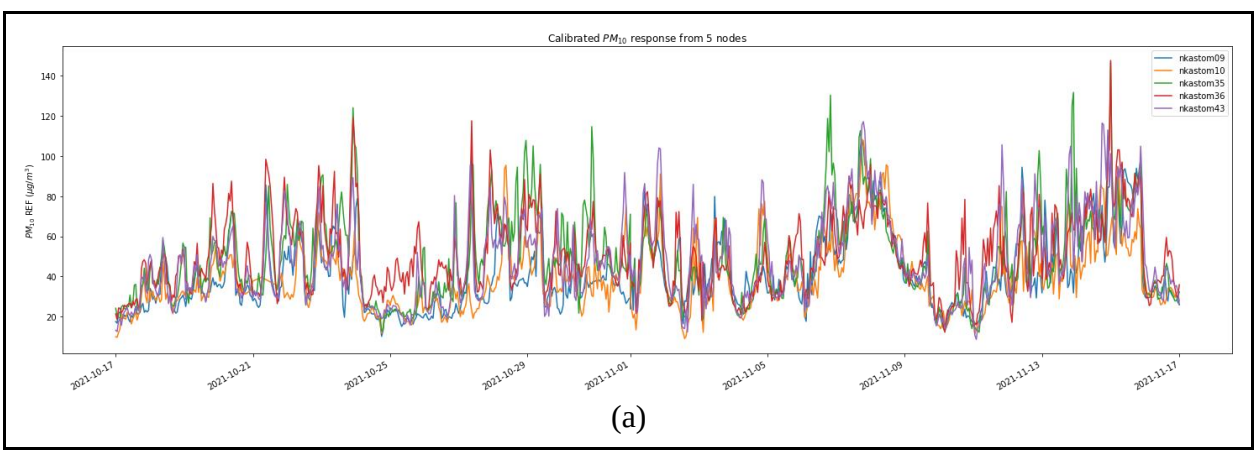
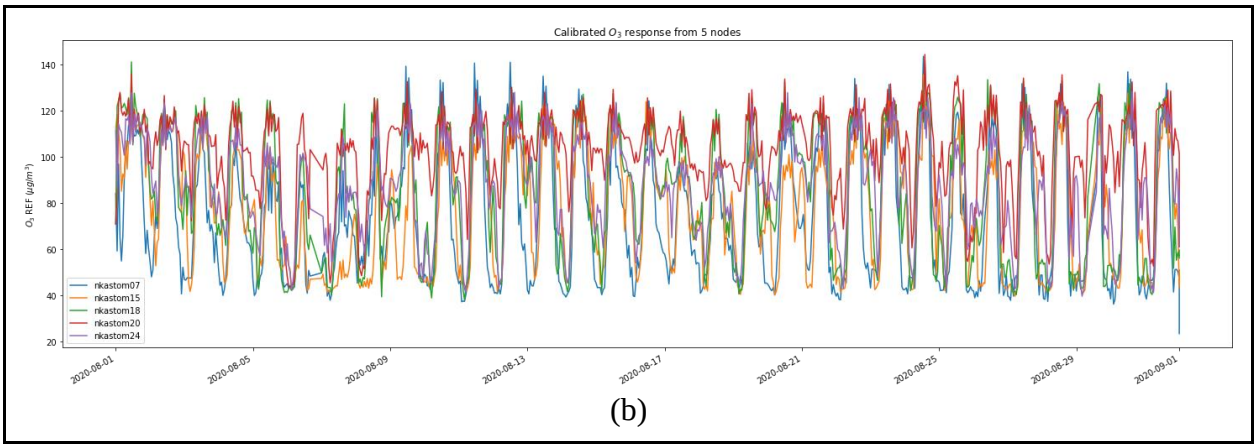


Figure S1: Chosen features and models by the GA stacking. (a) corresponds to PM10 and (b) to O3.

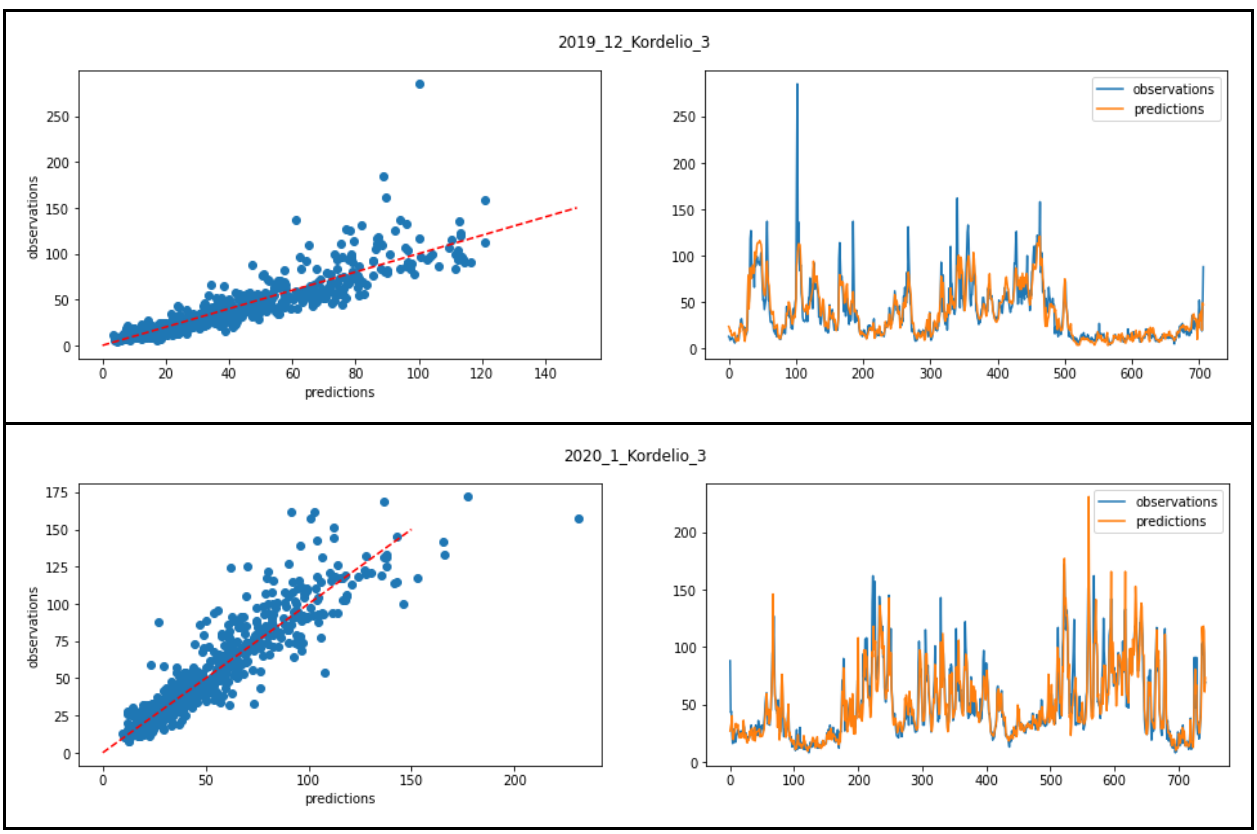


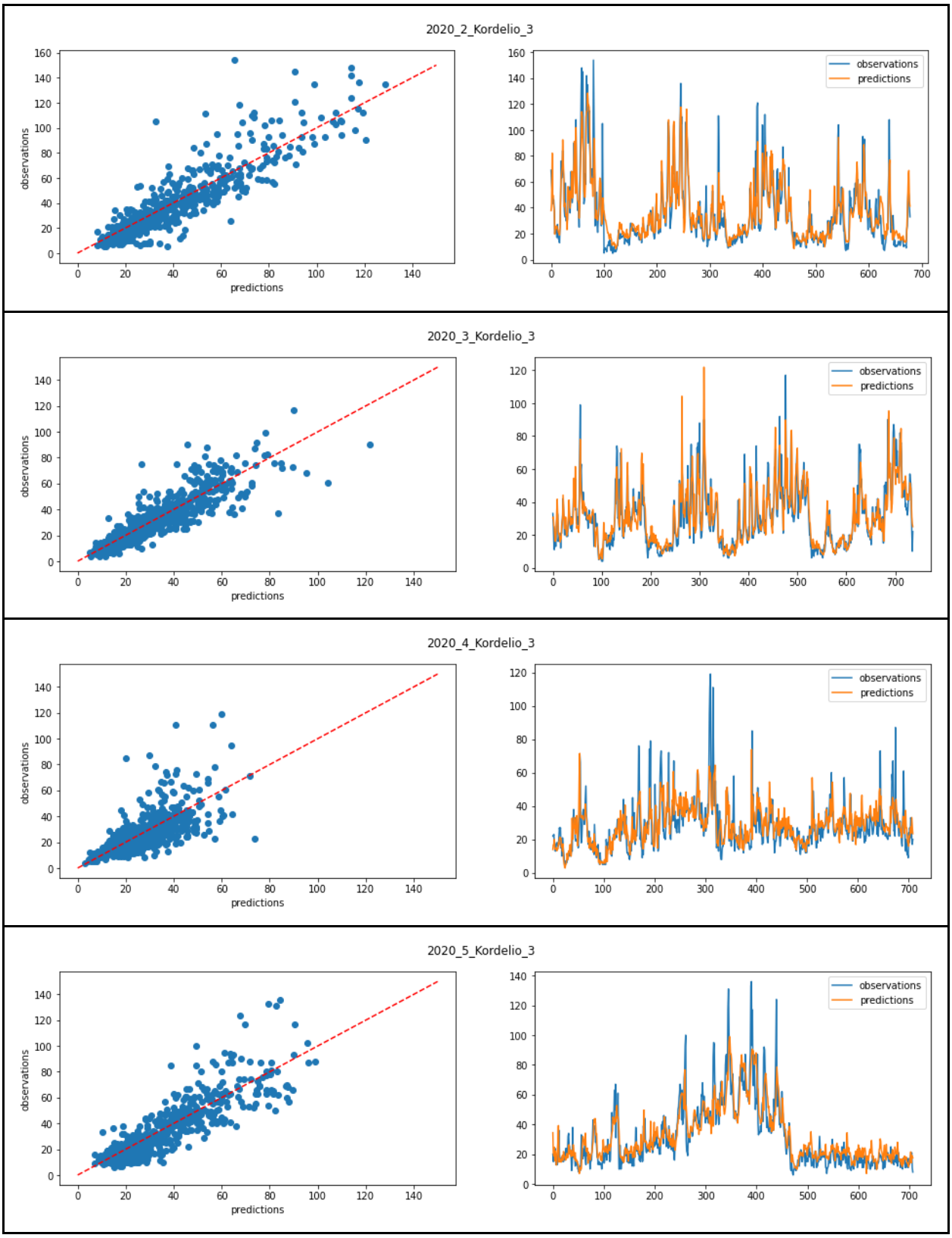


(b)

Figure S2: The calibrated output of the GA-stacking framework of 5 novel to the models nodes are presented for PM_{10} (a) and O_3 pollutants (b).

Figure S3: The calibrated output against reference readings for visual validation is presented in the right subfigure and the linearity is presented in the left. The results refer to the PM_{10} levels for the KORDELIO collocated node-reference pair for the ideal scenario.

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predictions
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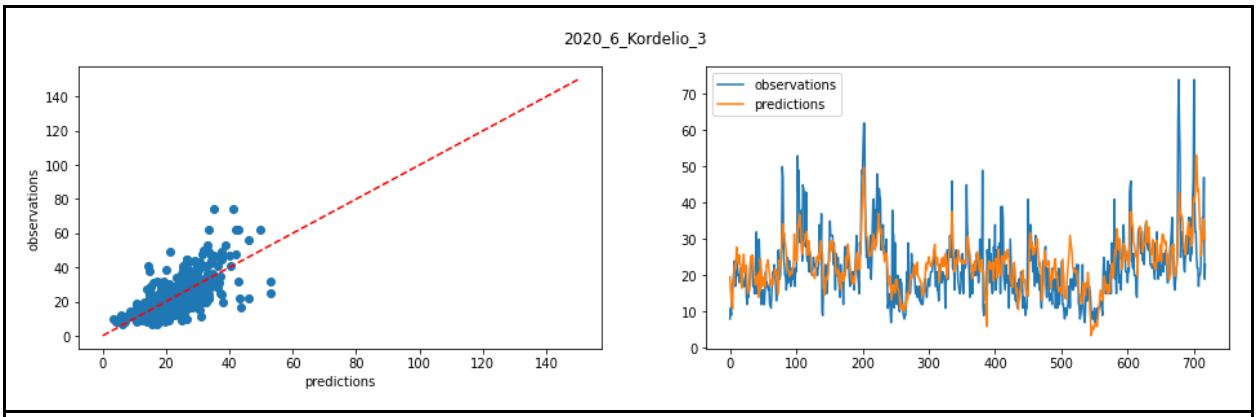
predictions
2020_5_Kordelio_3
observations
predictions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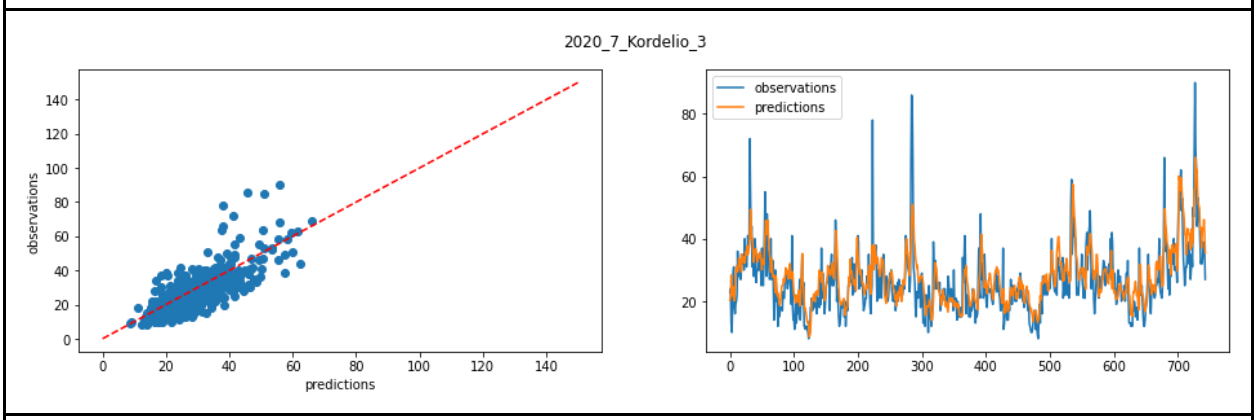
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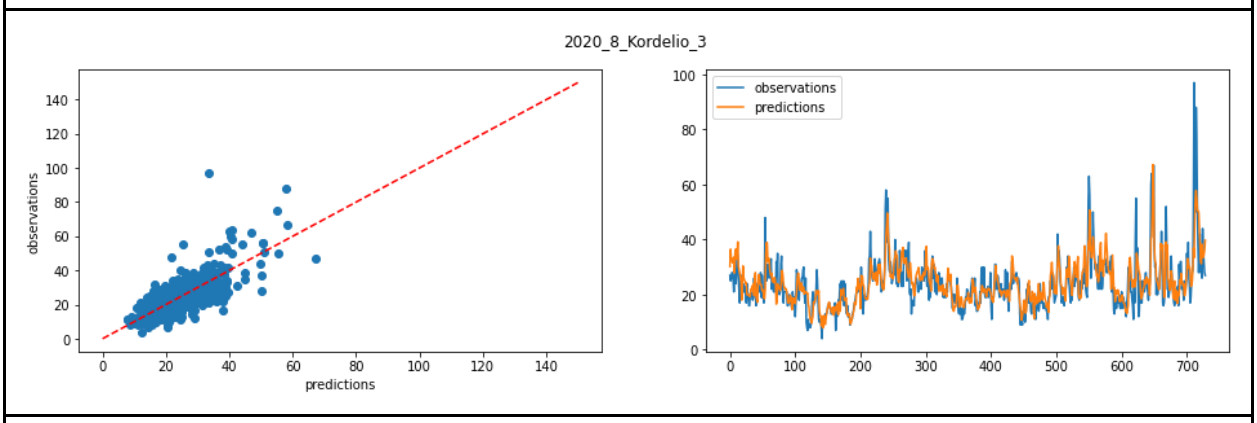
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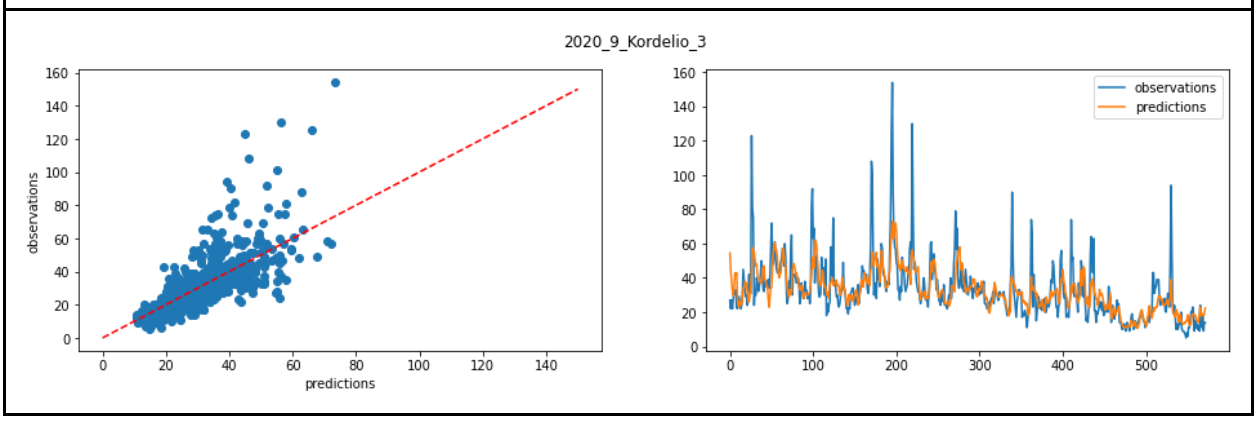
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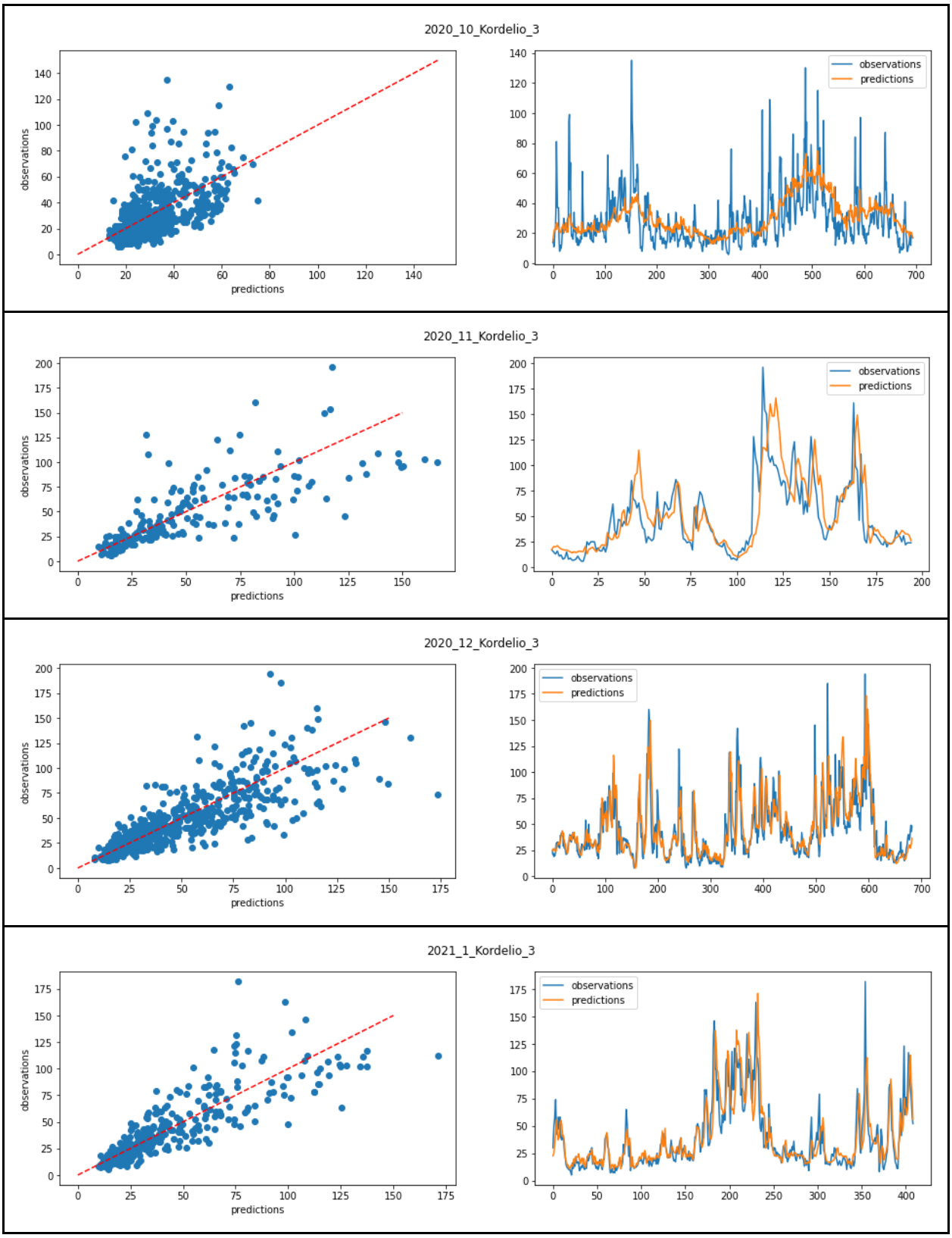
predictions
observations
predictions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predictions
2020_12_Kordelio_3
observations
predictions
2021_1_Kordelio_3
observations
predictions

2021_2_Kordelio_3
observations
predictions
2021_3_Kordelio_3
observations
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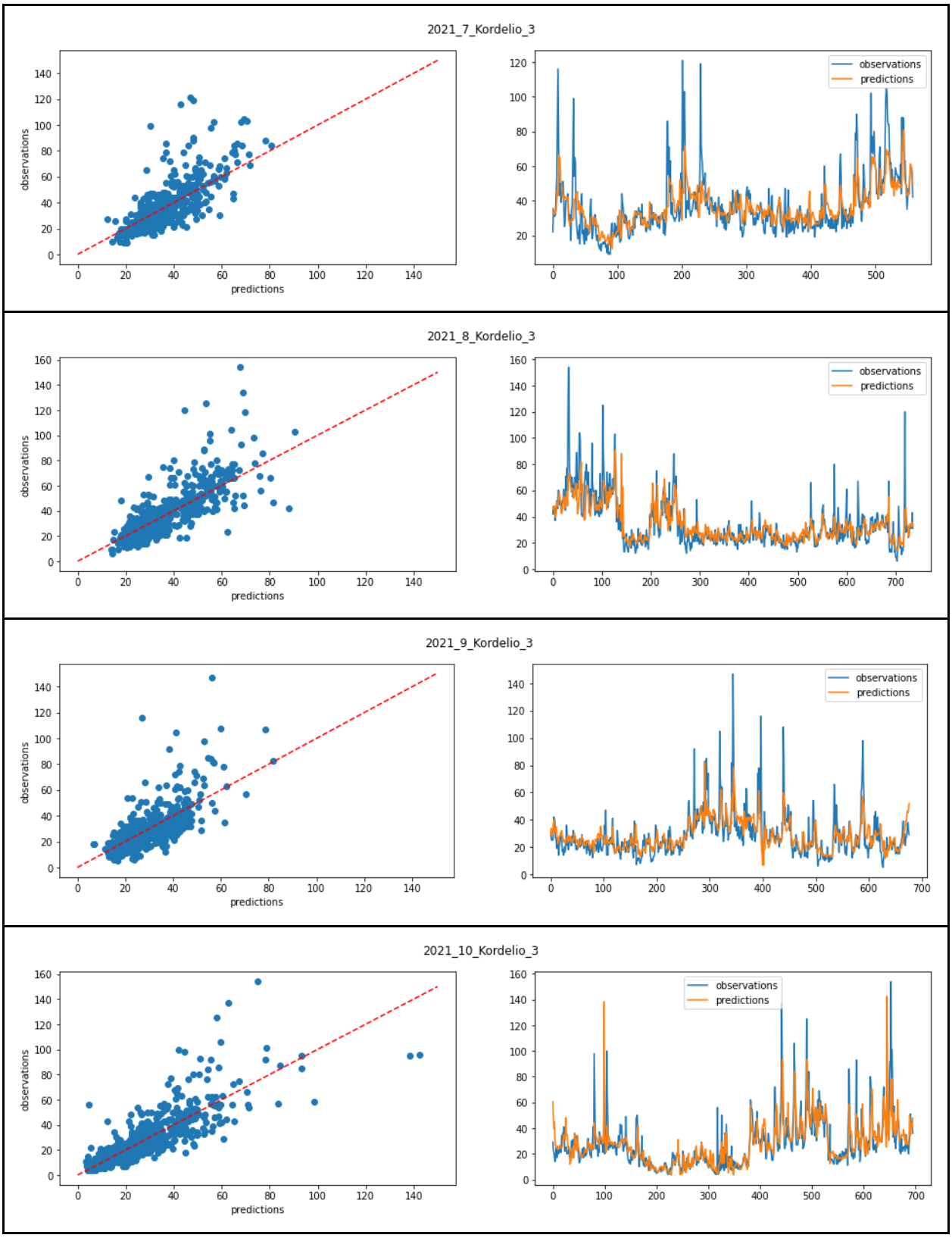
observations
predictions
2021_6_Kordelio_3
observations
predictions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predictions
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observations
predictions

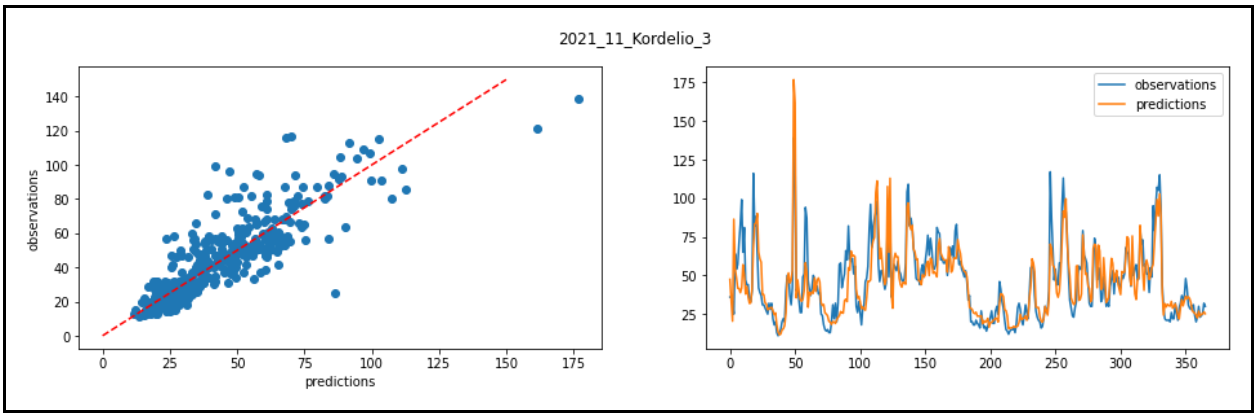
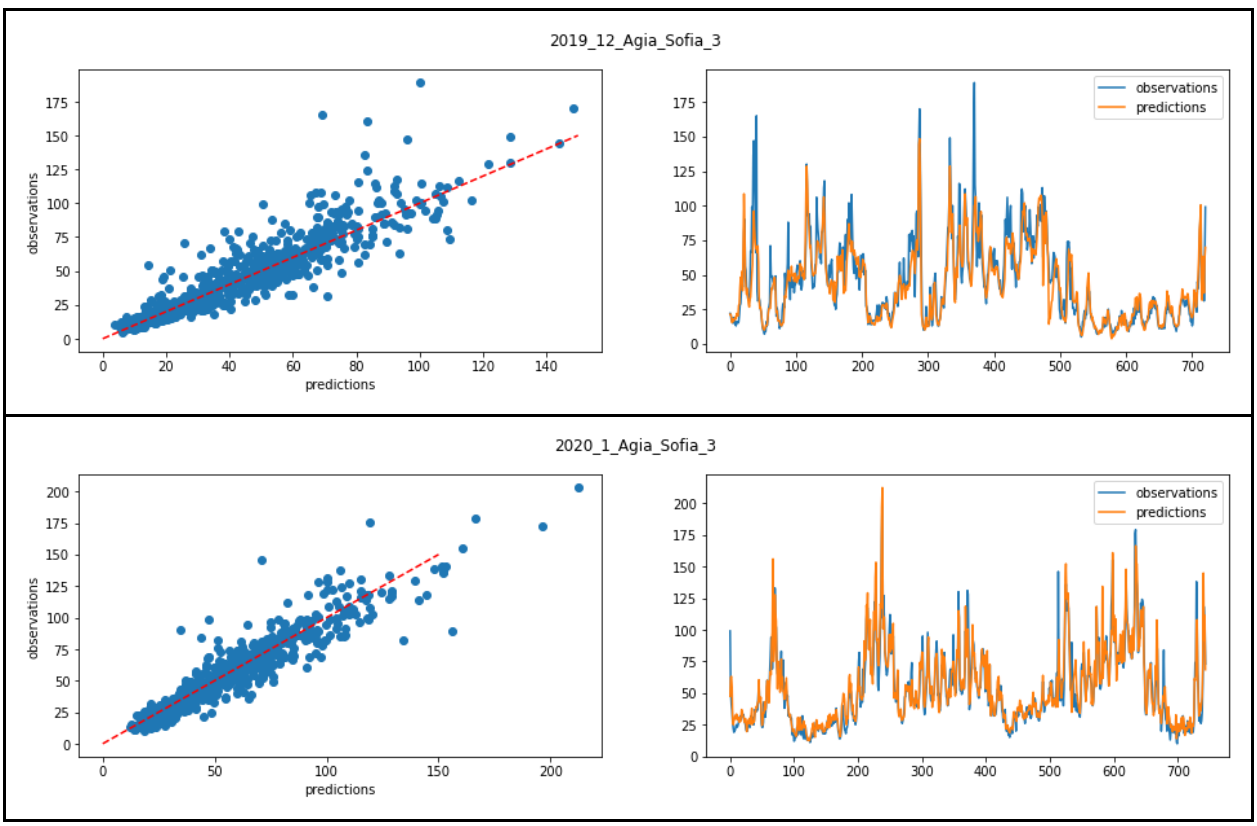


Figure S4: The calibrated output against reference readings for visual validation is presented in the right subfigure and the linearity is presented in the left. The results refer to the PM_{10} levels for the AGIA SOFIA collocated node-reference pair for the ideal scenario.



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observations
predictions
2020_3_Agia_Sofia_3
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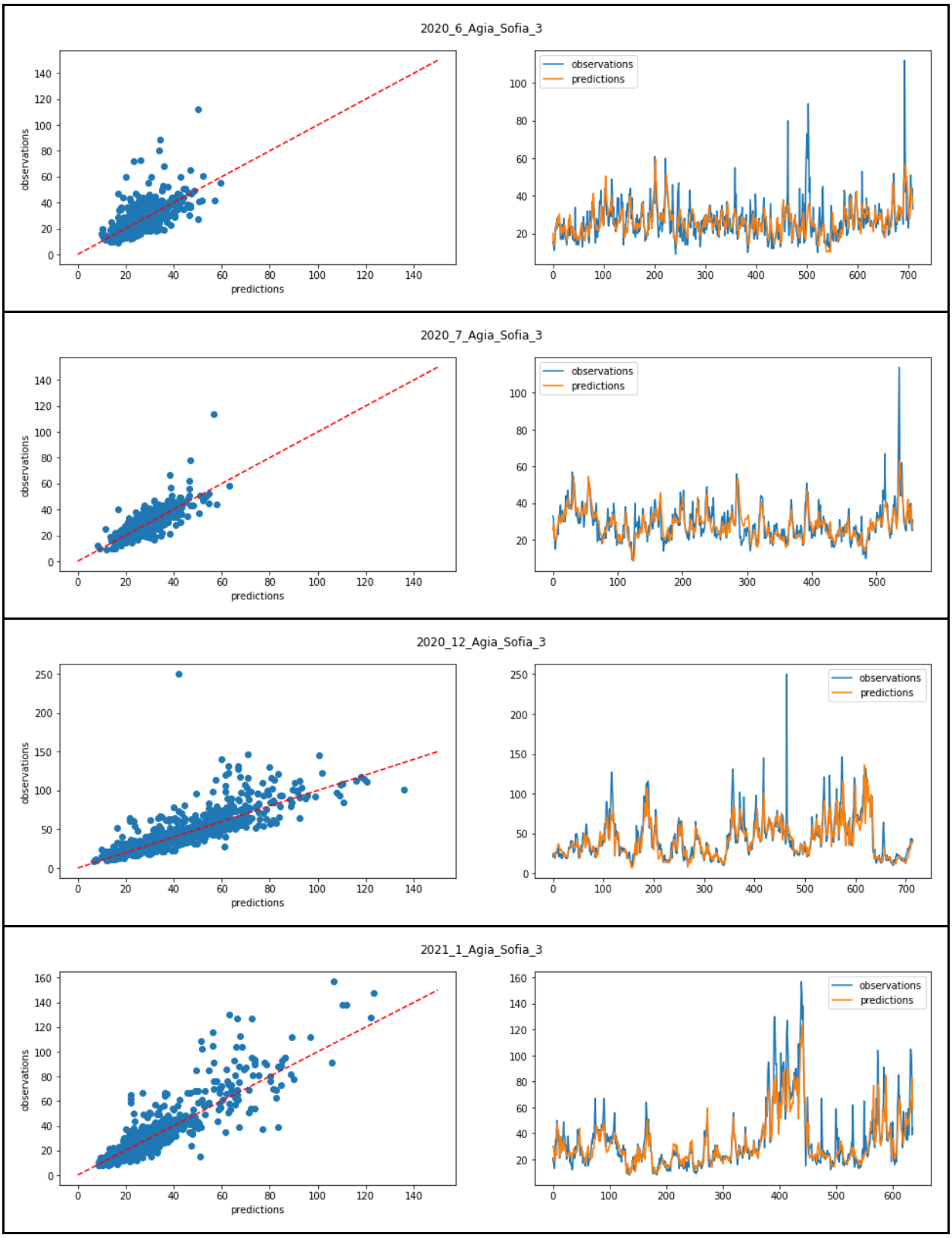
predictions
2020_4_Agia_Sofia_3
observations
predictions
2020_5_Agia_Sofia_3
observations
predictions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observations
predictions
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observations
predictions

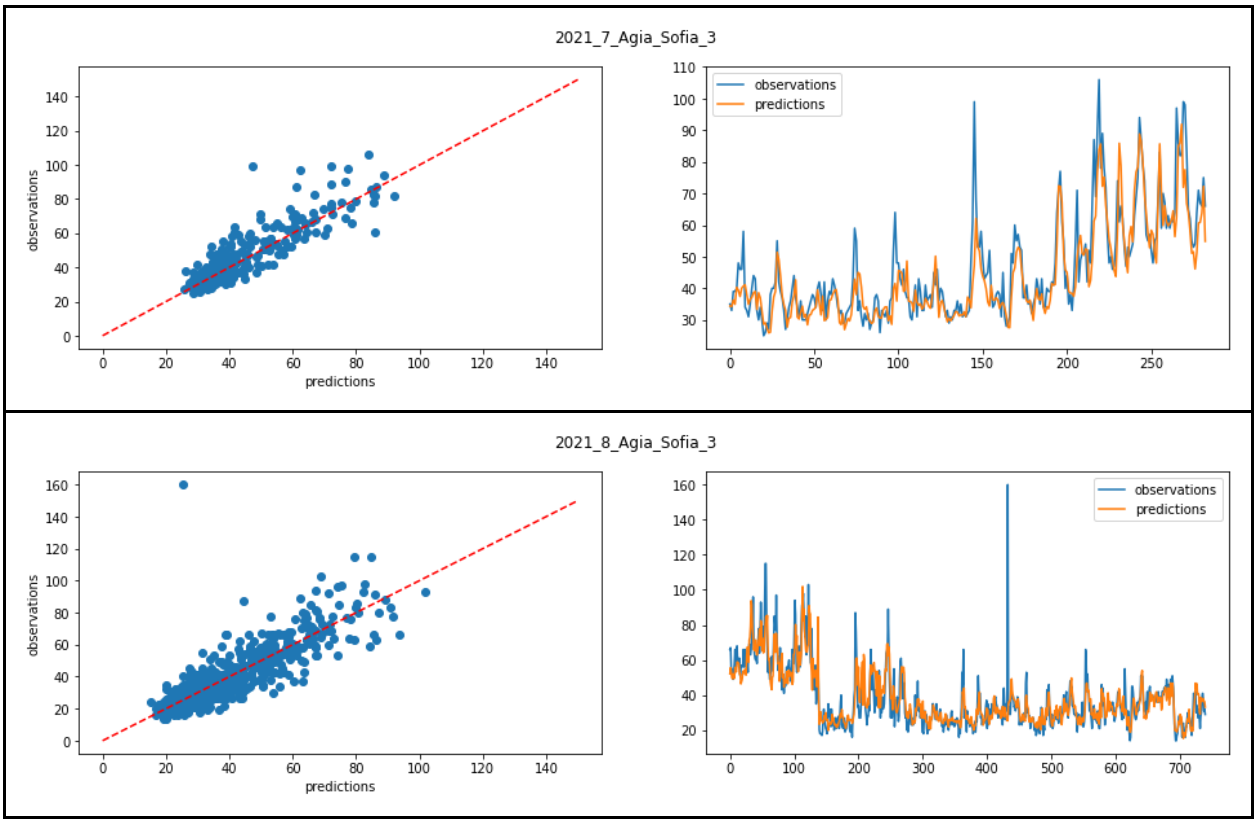
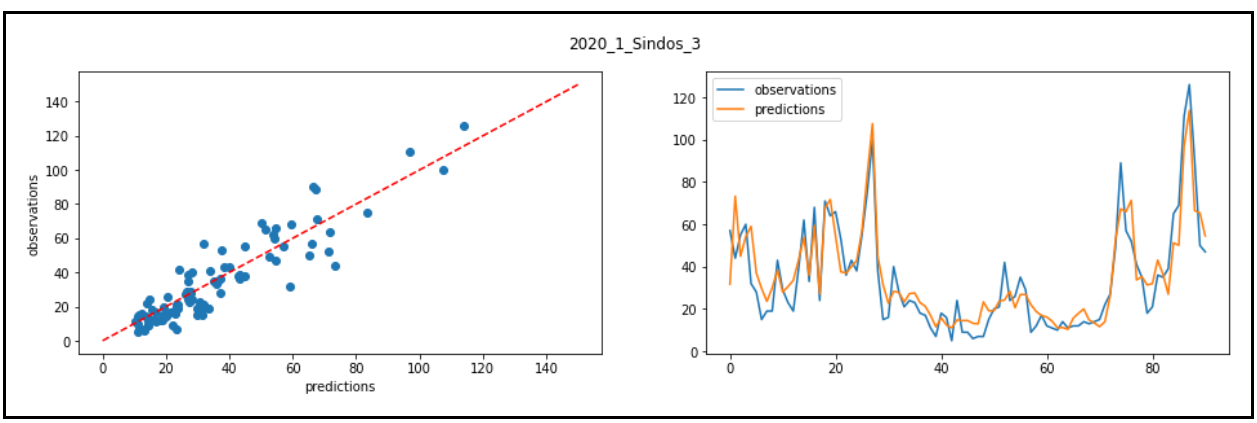
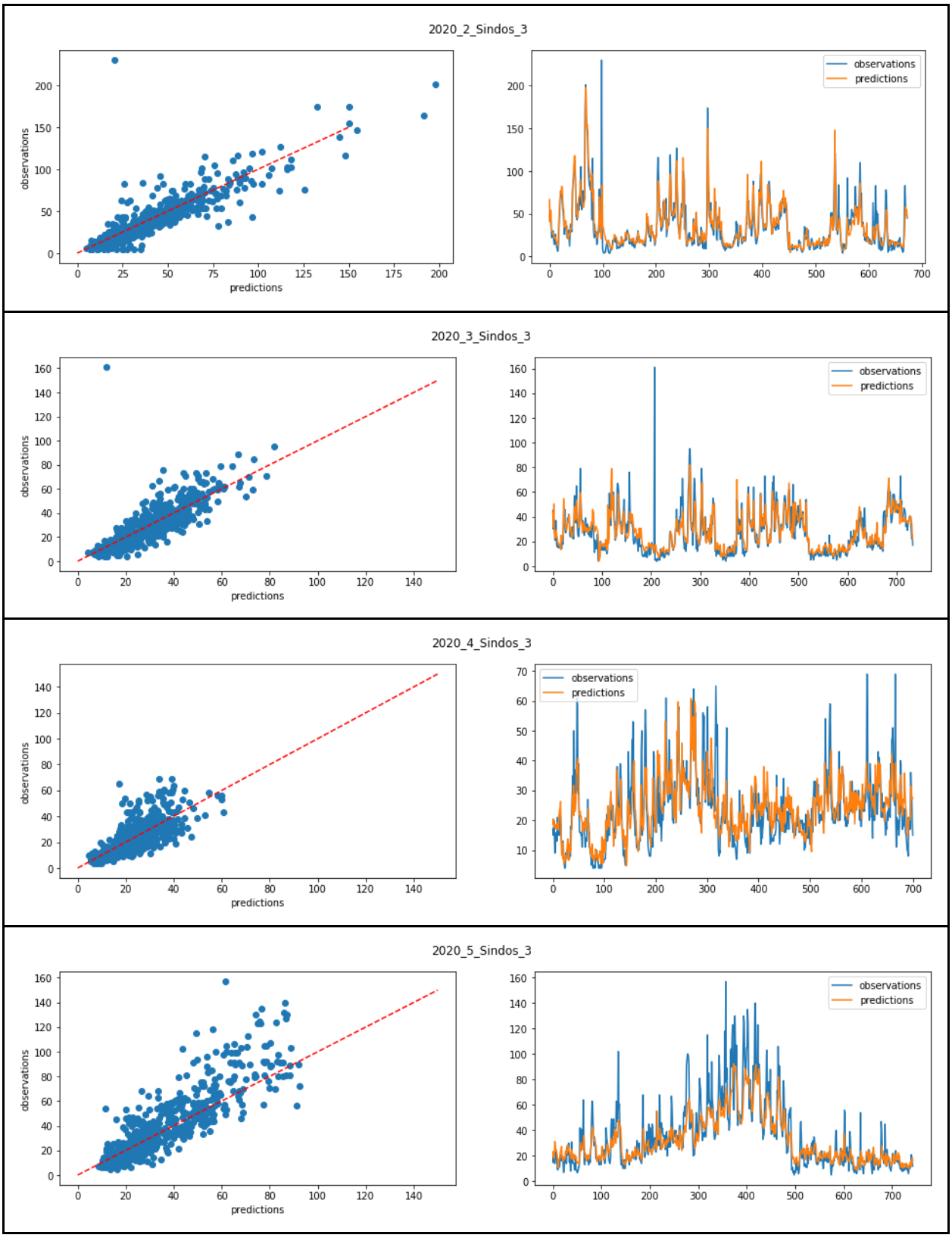


Figure S5: The calibrated output against reference readings for visual validation is presented in the right subfigure and the linearity is presented in the left. The results refer to the PM_{10} levels for the SINDOS collocated node-reference pair for the ideal scenario.

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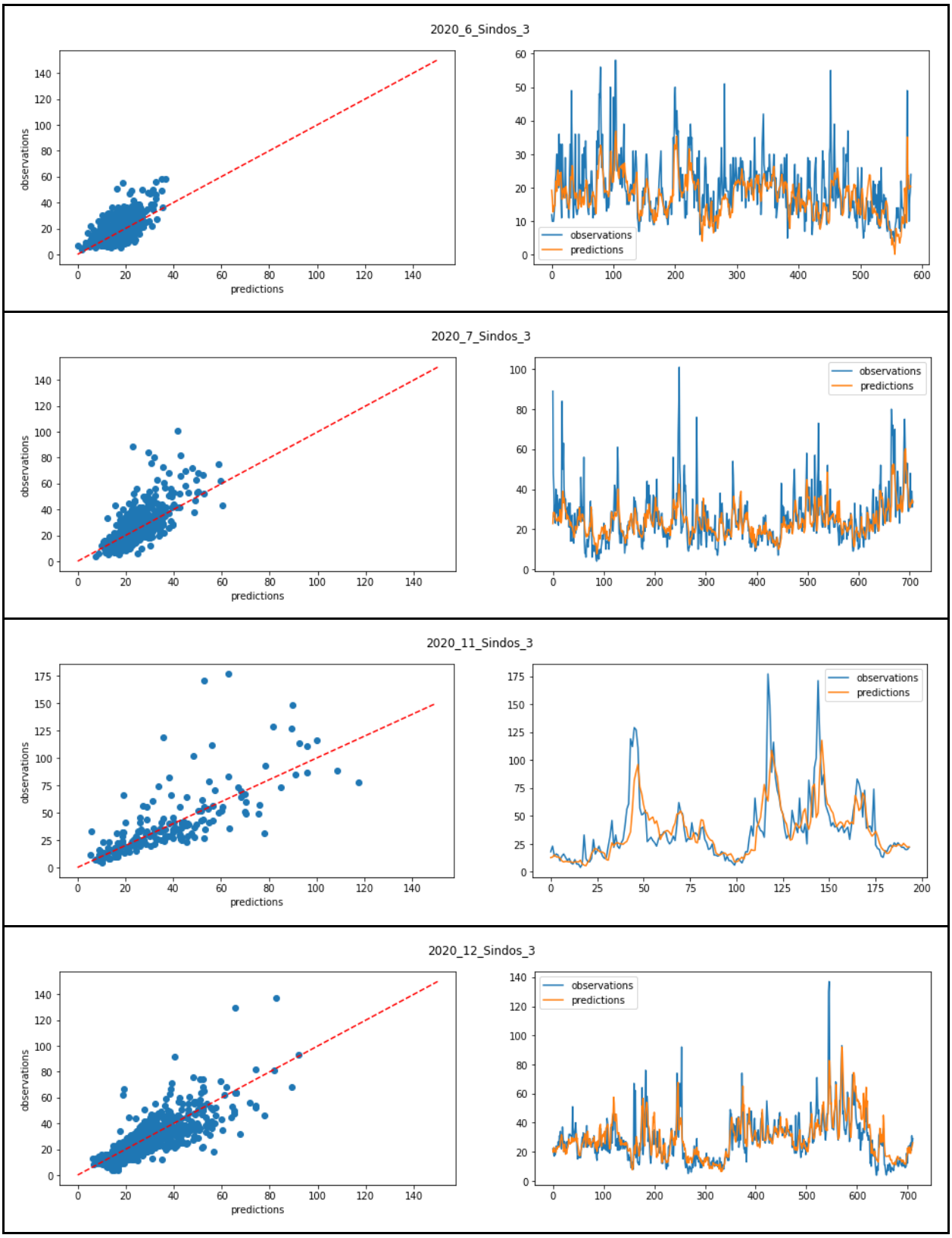
observations
predictions
2020_4_Sindos_3
observations
predictions
2020_5_Sindos_3
observations
predictions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predictions
2020_7_Sindos_3
observations
predictions
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observations
predictions
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observations
predictions

2021_1_Sindos_3
observations
predictions
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predictions

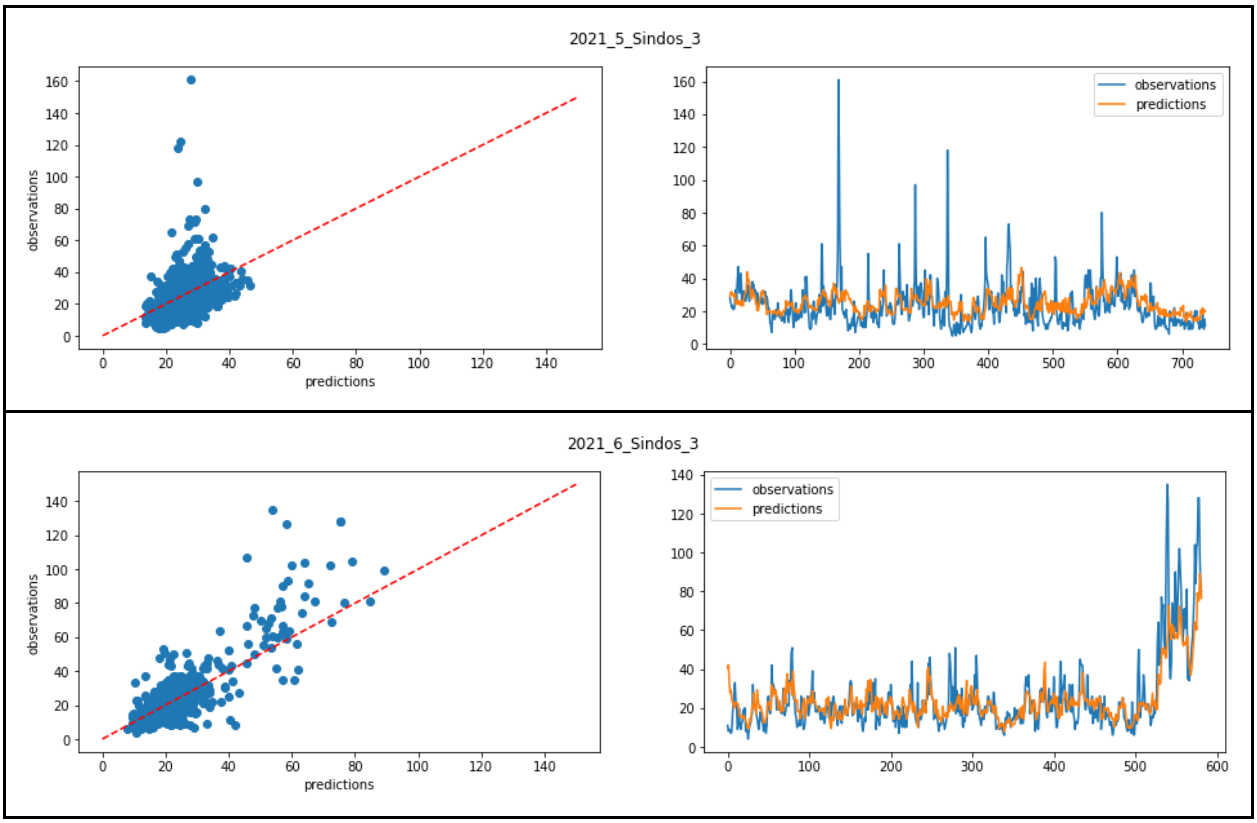
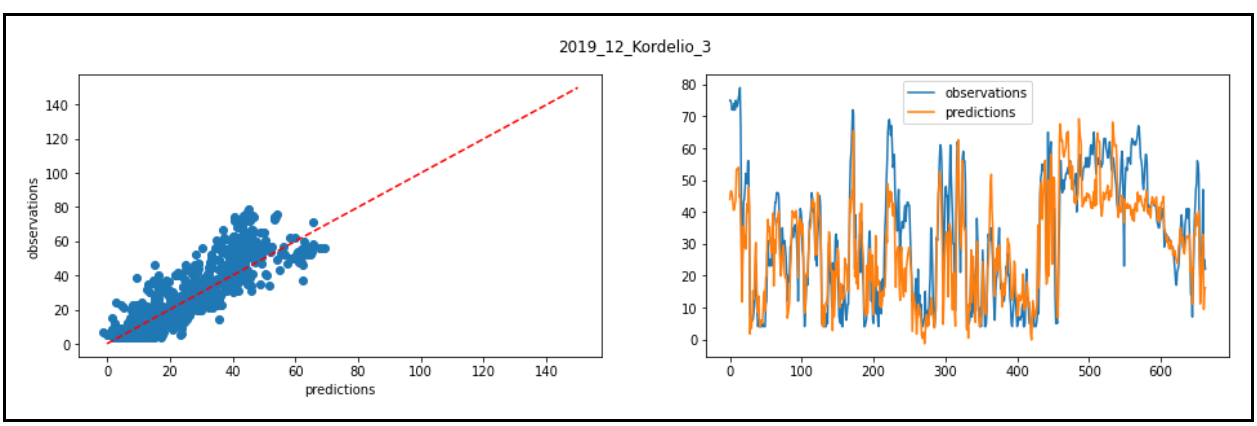
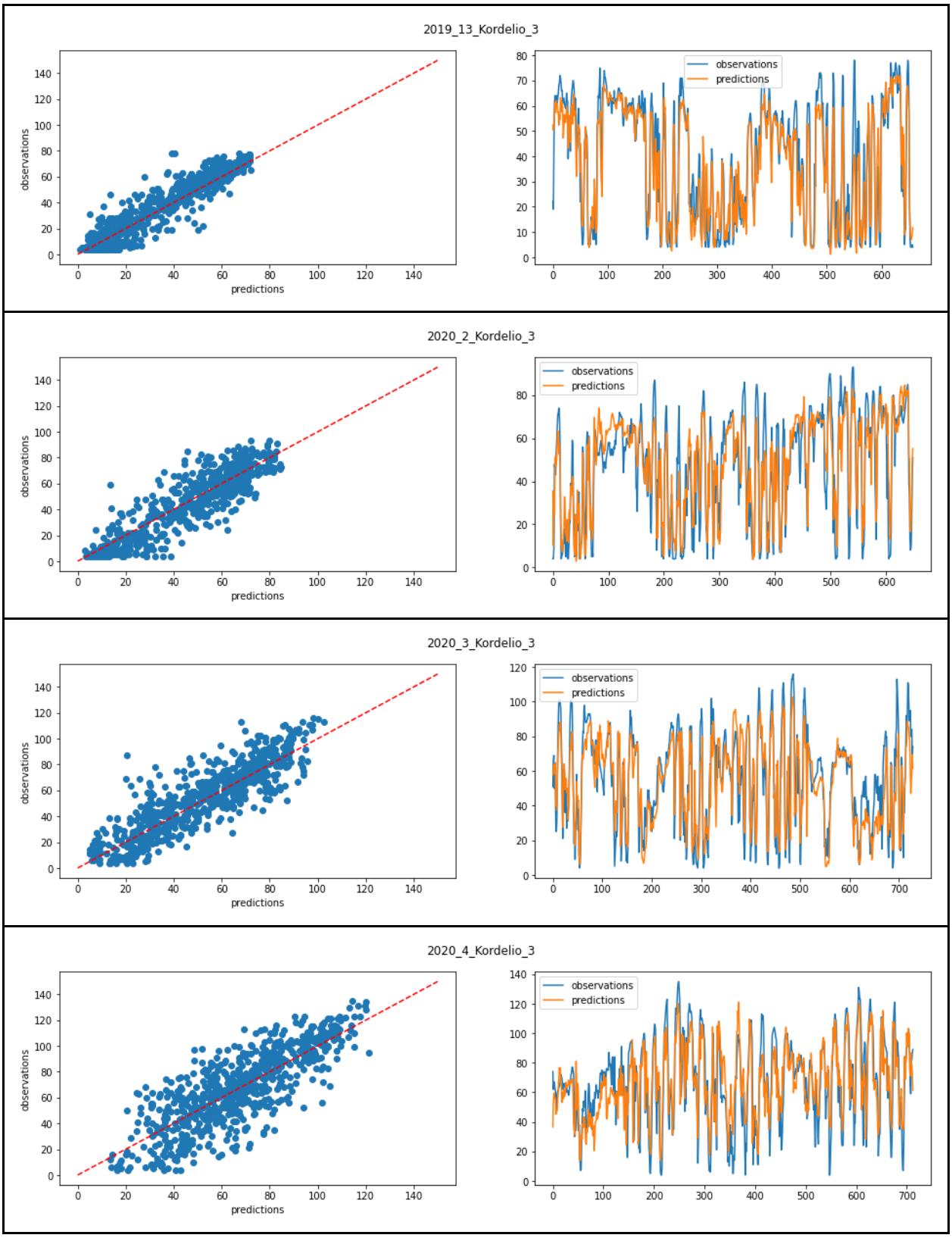


Figure S6: The calibrated output against reference readings for visual validation is presented in the right subfigure and the linearity is presented in the left. The results refer to the O_3 levels for the KORDELIO collocated node-reference pair for the ideal scenario.




2019_13_Kordelio_3
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predictions
2020_2_Kordelio_3
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predictions
2020_3_Kordelio_3
observations
predictions
2020_4_Kordelio_3
observations
predictions

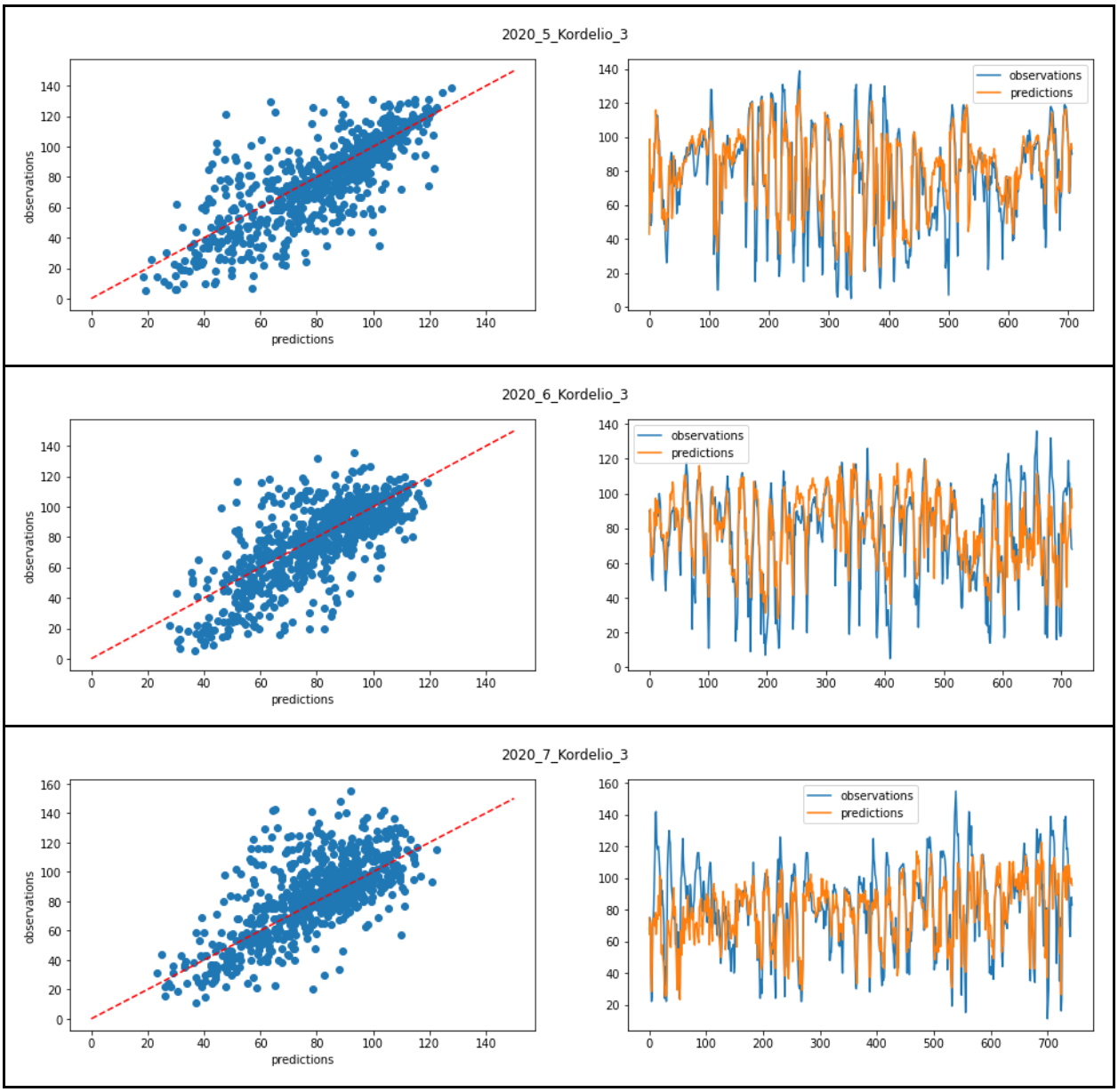
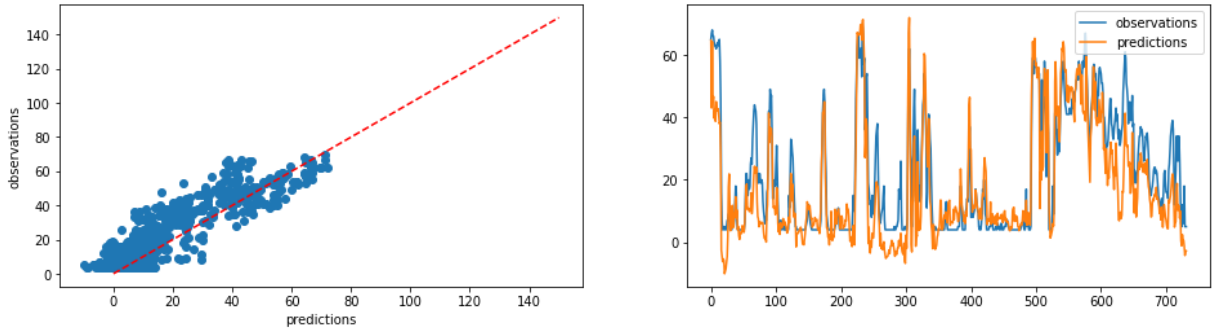
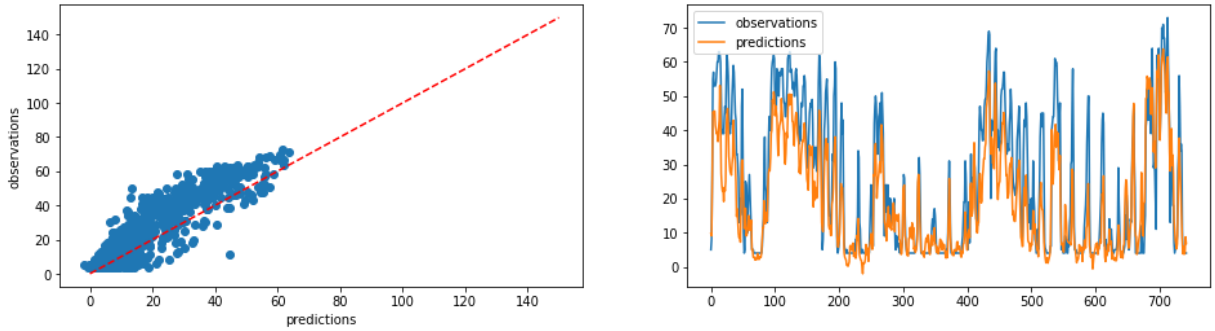


Figure S7: The calibrated output against reference readings for visual validation is presented in the right subfigure and the linearity is presented in the left. The results refer to the O_3 levels for the AGIA SOFIA collocated node-reference pair for the ideal scenario.

2019_12_Agia_Sofia_3



2019_13_Agia_Sofia_3



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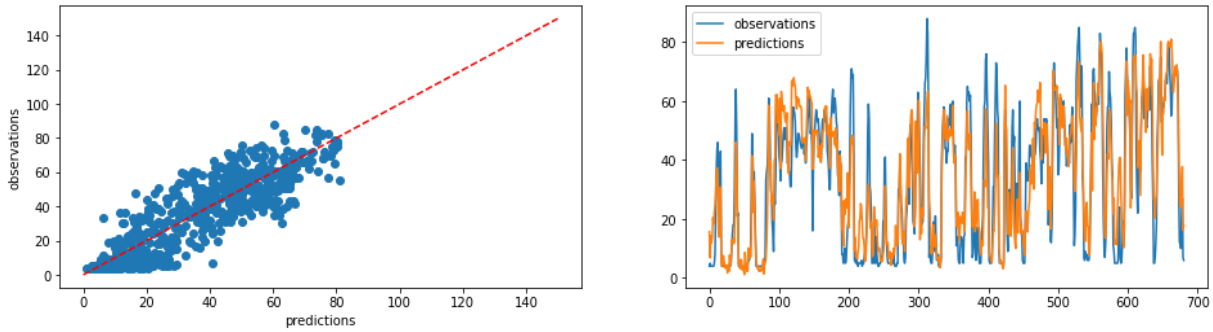
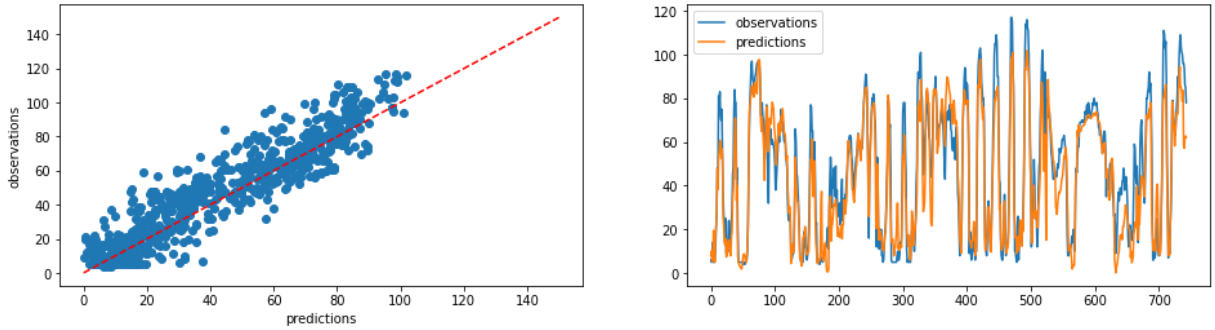
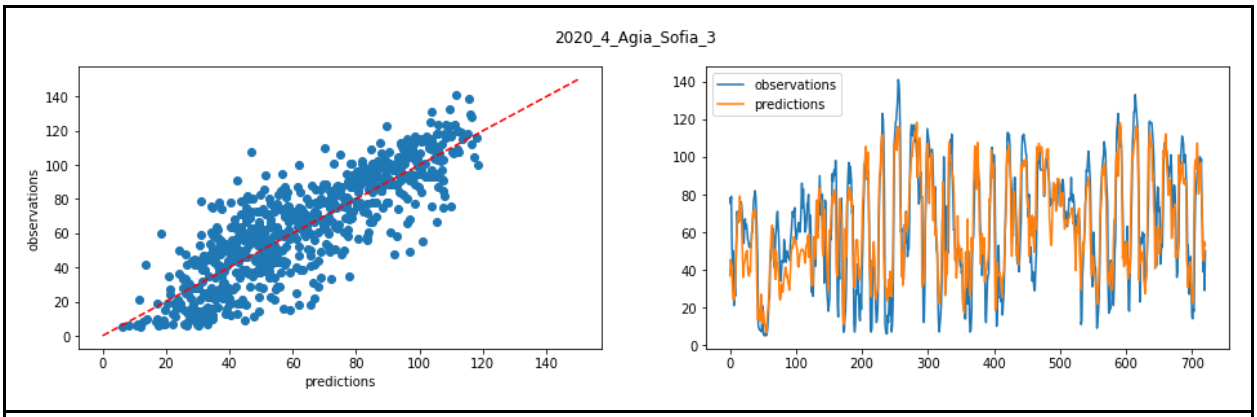


2020_3_Agia_Sofia_3

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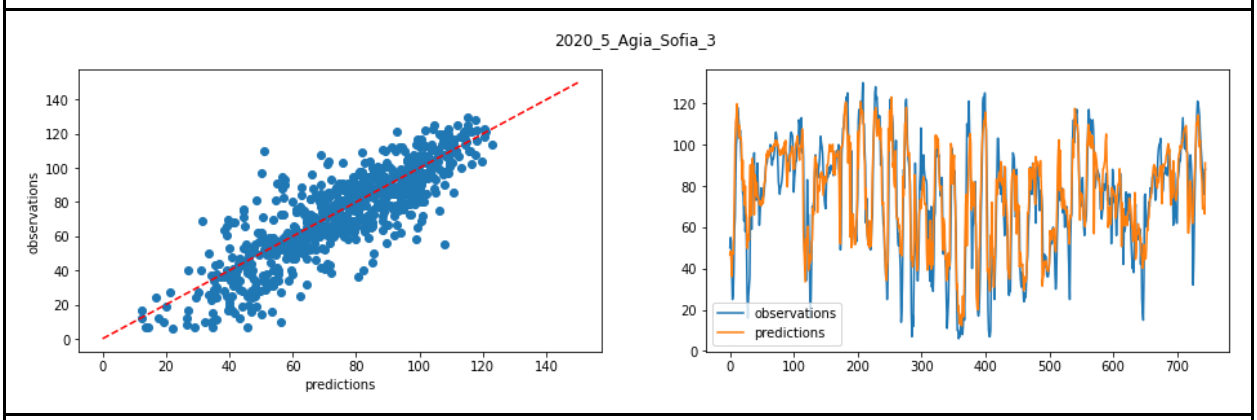
observations
predictions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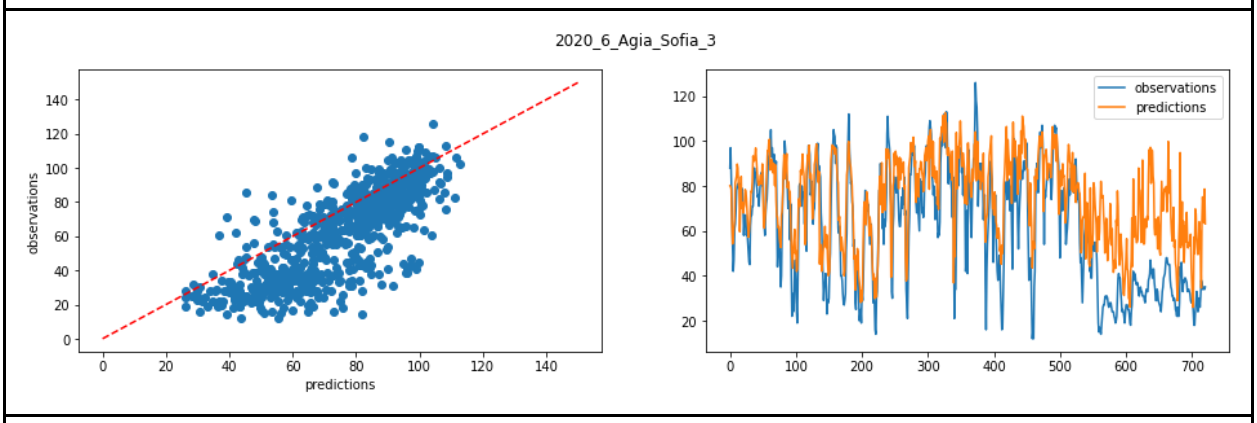
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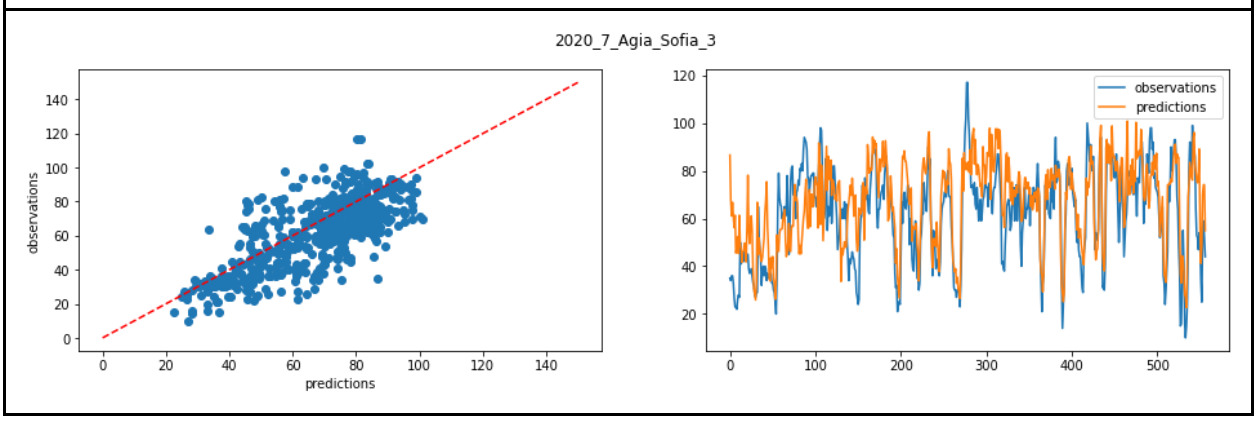
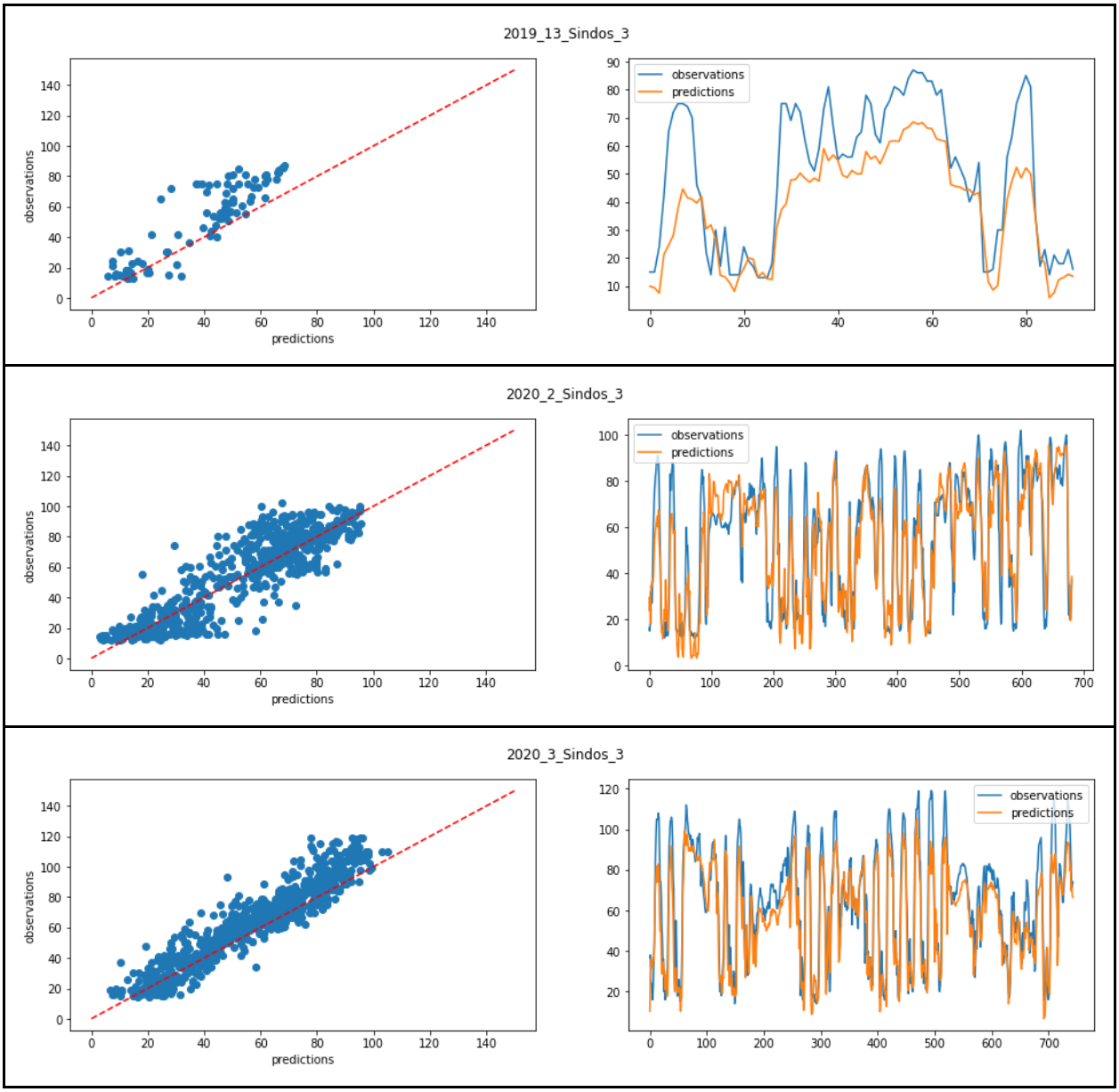
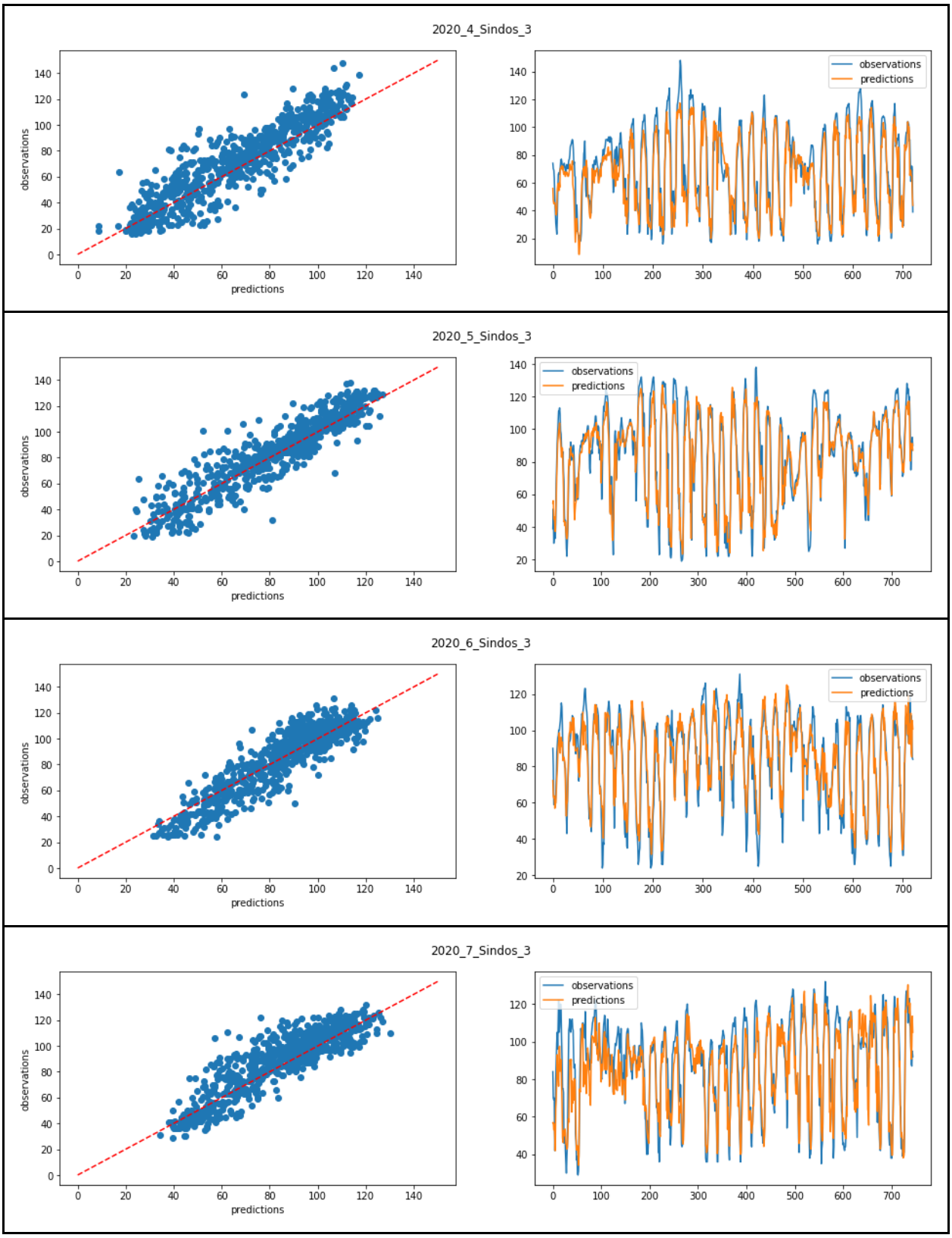

2020_7_Agia_Sofia_3
observations
predictions
observations
predictions

Figure S8: The calibrated output against reference readings for visual validation is presented in the right subfigure and the linearity is presented in the left. The results refer to the O_3 levels for the SINDOS collocated node-reference pair for the ideal scenario.

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observations
predictions
2020_6_Sindos_3
observations
predictions
2020_7_Sindos_3
observations
predictions