S1. Supplementary Material

S1.1 Analysis of CNEA site during training period

S.1.1.1 Temporal Variations

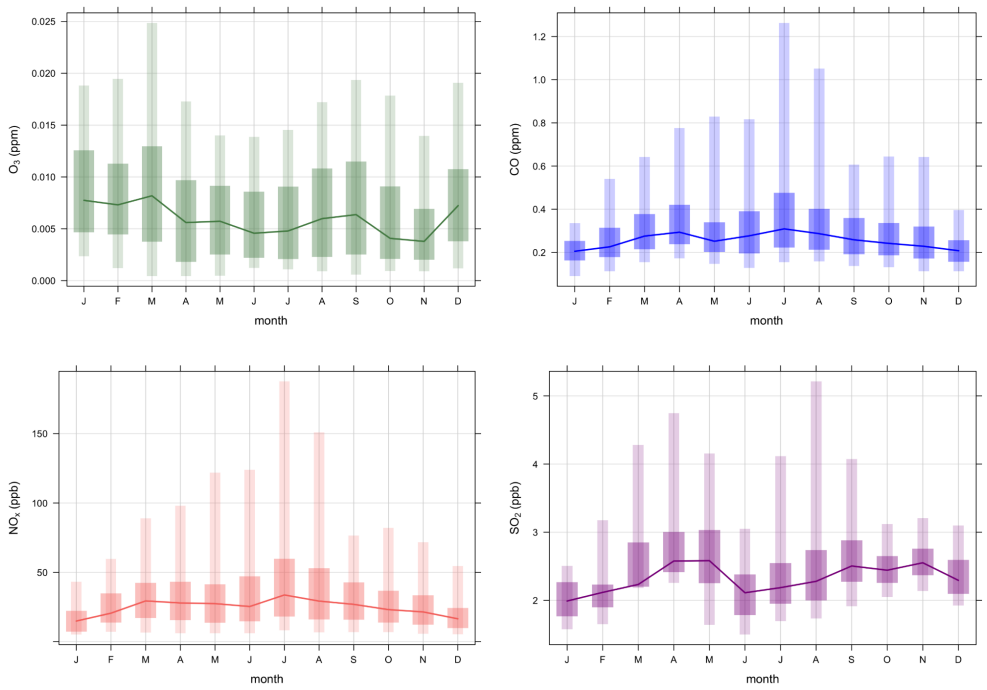

Fig. S1: Boxplot of training period ground-based observations for CNEA site.

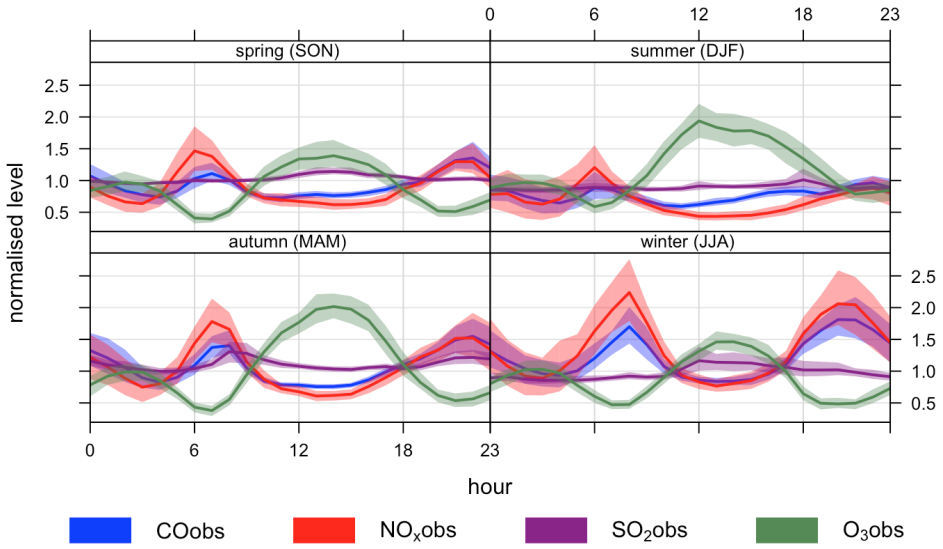

Fig S2: Seasonal diurnal cycles of training period ground-based observations for the CNEA site.

S.1.1.2 Bivariate polar plots for training period

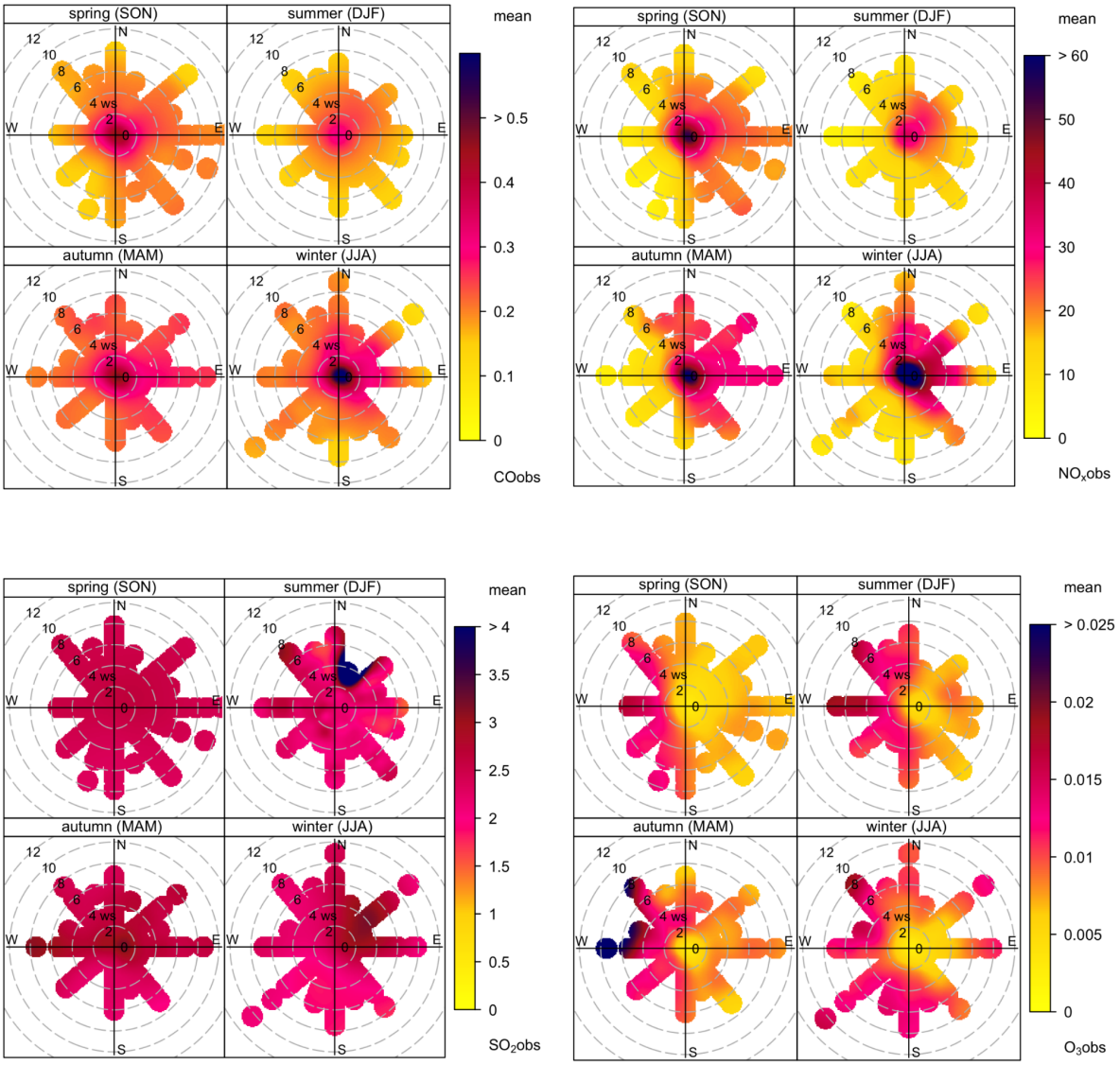

Figure S3: Seasonal bivariate polar plots for training period (CNEA site).

S1.2 Analysis of CNEA site during testing period

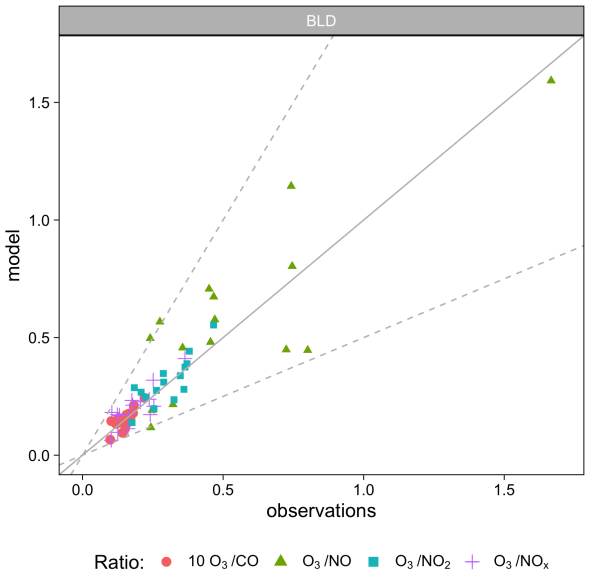

Figure S4. Scatter plot for O_3 ratios during testing period (BLD) in CNEA site. For better visualization O_3-CO ratio was multiplied by 10. The 1:1 line is solid and the 1:0.5 and 1:2 lines are dashed. Values within the dashed lines represent the fraction of values that are within a factor of 2 of the observations. Pearson correlation coefficients: $r_{O3\text{-}CO} = 0.79$, $r_{O3\text{-}NO} = 0.85$, $r_{O3\text{-}NO2} = 0.87$, $r_{O3\text{-}CO} = 0.89$.

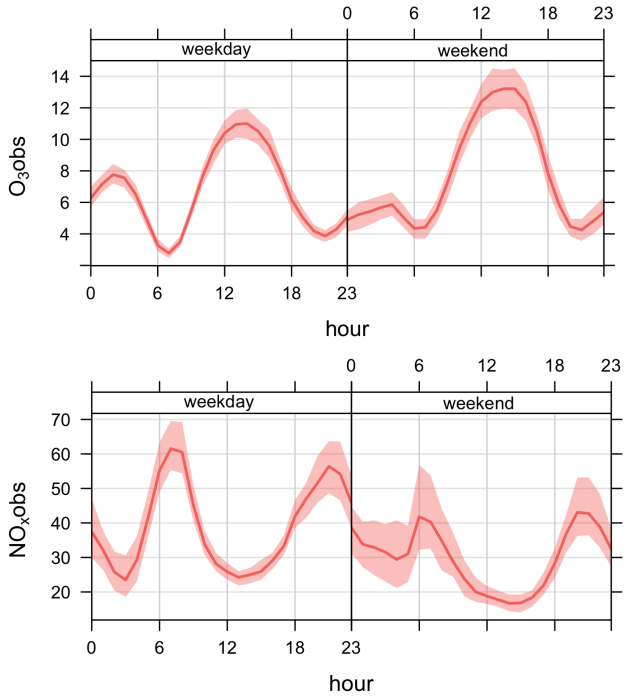

Figure S5. Mean diurnal cycle for weekends and weekdays for O_3 [ppb] and NO_x [ppb] during the training period at CNEA site.

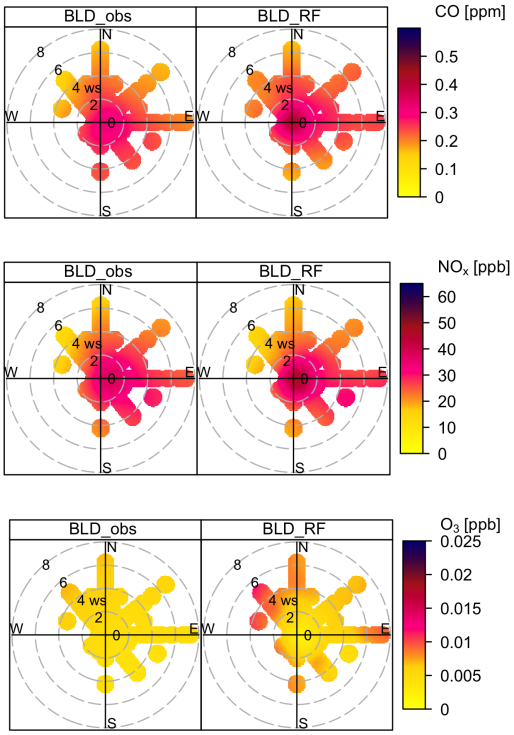

Figure S6. Bivariate Polar plots for testing period (BLD) for CNEA site.

S1.3 Analysis of Parque Centenario site during testing period

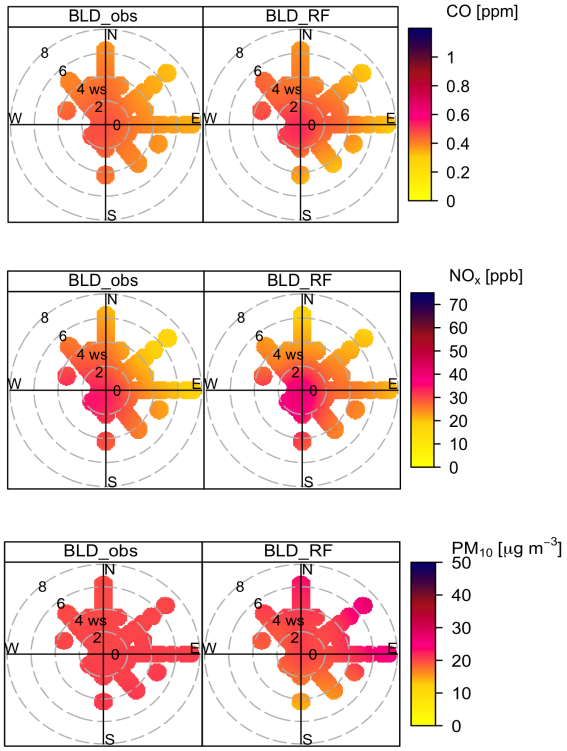

Figure S7. Bivariate Polar plots for testing period (BLD) for Centenario site.