Elemental composition of atmospheric aerosol particles in the GoAmazon experiment
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Sampling Sites
Figure 1 shows the locations of the sites 2F–T0 (green flag, about 60 km upwind of Manaus), TIWA-T2 (dark blue flag, 8 km downwind of Manaus) and Manacapuru-T3 (red flag, 60 km downwind of Manaus). The aerosol samples were collected from the beginning of 2014 until the end of 2015.

Figure 1: Sampling sites at Central Amazonia

Results and Discussion

Figure 4 – mean equivalent black carbon (eBC) (fine mode) concentrations at T0, T2 and T3 for the GoAmazon14/15.

Figure 5 – mean equivalent black carbon (eBC) (coarse mode) concentrations at T0, T2 and T3 for the GoAmazon14/15.

Figure 6 – mean concentration of trace elements (fine mode) measured by X-ray fluorescence at the sites T0, T2 and T3. Please note the logarithmic scale.

Figure 7 – absorption coefficient measured by aethalometers versus eBC obtained by reflectance on Nuclepore filters for T0/2 (left) and T0/3 (right).

Figure 8 – factor fingerprints extracted by PMF5.0 for at T0, T1/2 and T3 fine mode aerosol. General results of FPM extracted per factor for each site is present on d)

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