Response to Associate Editor

L118-122: Insert dunet points, the reviewer means and a dunet point like below, which makes
the text better to be understood
□ CO2, CH4, and H2O - G2301-m operating based on the technology of cavity ring-down
spectroscopy (CRDS, Picarro Inc.,
\Box USA);
\square O3 – Model 49C UV photometric gas analyzer (Thermo Environmental Instruments 120 Inc.
USA);
□ CO – Model 48C non-dispersive infrared (NDIR) correlation gas-filter analyzer (Thermo
Electron Corp., USA);
□ NO and NO2 (NOX) – Model 42i-TL chemiluminescence gas analyzer (Thermo Fisher
Scientific Inc, USA).
Response: Markers inserted. In the corrected version of line 103-108

L181: black carbon not in capital letters

Please check, it seems that they are still in capital letters in title of section 2.2.2 Equipment for measurement of Black Carbon and aerosol scattering

Response: Fixed: In the corrected version of line 168.

F9: revise this figure, make it easier to read, include flight pattern or interested region. The reviewer suggested an update of the figure (not referred to the reduction of total number of the figures in the paper), please make update. The numbers in current figure are not readable (font too small), and the important patters are not highlighted.

Response: Fig. 9, in the corrected version, Figure 6 represents fragments of standard synoptic maps. We cannot increase the size of the numbers on it. We propose to reduce the number of cards and increase the drawing itself.

F10: adjust margin and size of the panels

The reviewer suggested an update of the figure, by reducing the margin of each figure and increasing the font size in each figure, thus better for reading, please update accordingly Response: Fig. 10, in the corrected version of Figure 7, corrected.

Also corrected Fig. 11 (Fig. 8) as they are similar.