

Interactive comment on “Optical properties, morphology and elemental chemical composition of atmospheric particles at T1 supersite on MILAGRO campaign” by G. Carabali et al.

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We would like to thank the reviewer for the scrutiny of our paper, the attention to detail, and constructive comments. The clarity and quality of our manuscript is greatly improved as a result of referee's diligence. We know that comments will become in a better and more complete manuscript. We would like to address the questions, comments and suggestions with the same order presented by the reviewer on his comments:

General comments: 1) We have changed the resolution on figures 1, 3, 5, and 6. Especially on figure 1 we have modified the marks to make the data points more clear. 2) We have corrected the spelling and grammar in the text, and we have tried to improve

C8433

the English language. We hope to achieve that.

Specific comments: 1) In the manuscript we have included a new section describing (section 2.3) the fractal dimension calculation. 2) We have included a clearer picture of wind patterns for the days studied. The referee certainly remarks the asseveration on wind patterns, so we have changed some of the content of section 3.1. 3) The values on table 1 are general averages, which are calculated with all the data collected at each site. Also, we have replaced σ_{abs} from Mexico City, with the value obtained at T0, during MILAGRO. We have remarked that on the manuscript. 4) We have included in section 3.3 a description of the fractal dimension patterns in histograms corresponding to 16:00 - 19:00 and 21:00 - 24:00. 5) We have corrected the table of elements detected by EDS. 6) We have changed the sentence to remark that high or low values are based on comparison among the particles analyzed. 7) We have included the appropriate references to support the information presented in the Conclusions section.

Technical corrections: 1) We have replaced noon, evening, etc. for the exactly hour to avoid time confusions. 2) We have corrected the sentence replacing “can” with “may”. 3) We have corrected the sentence on page 4, line 10. 4) We have included the complete sampling date. 5) MM5 stands for meso meteorological model, version 5. The MM5 name is included in the manuscript. 6) Section 3.2 has a better description about the SSA and other the optical properties 7) We have corrected the sentence on page 8, line 23 8) We have deleted “that” and corrected the sentence. 9) We have corrected “dimension bins”. 10) We have change the sentence to improve the language 11) We have corrected the style on lines 4-6, page 11 12) We have replaced Calcium 13) We have delete “Fig. 3” 14) We have included “the” to the last two elements. We have also corrected other grammar errors and revised the language style, so we apologize for those mistakes written involuntarily.

Please also note the supplement to this comment:

<http://www.atmos-chem-phys-discuss.net/11/C8433/2011/acpd-11-C8433-2011->

C8434

