

Interactive  
Comment

## ***Interactive comment on “A meteorological overview of the ARCTAS 2008 mission” by H. E. Fuelberg et al.***

**H. E. Fuelberg et al.**

[fuelberg@met.fsu.edu](mailto:fuelberg@met.fsu.edu)

Received and published: 6 December 2009

Responses to Referee 2

General Comments

We are glad that the referee found the manuscript useful. We have strived to improve the presentation as described in the specific responses below.

Specific Comments

1) We now mention POLARCAT in the Introduction, state how ARCTAS relates to it, and give a reference for POLARCAT. We also make further, brief mention to POLARCAT in the results sections. That is about all we can do, because as the reviewer mentions in

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the second comment, the manuscript already is very lengthy.

2) We agree that CARB is not relevant to Arctic studies. However, the ARCTAS mission overview manuscript by Jacob et al. discusses CARB, and we were asked to include CARB here for the sake of consistency and completeness.

We have shortened the manuscript by combining the transport sections, removing panels from four of the figures, and streamlining the text.

#### Other Comments

Throughout We have added hyphens to the compound adjectives.

P 18433 We have corrected the Stohl 2005 reference to become Stohl et al., 2005

P18438 L5 The section number has been corrected.

P18438 L2 I did an author search in ACP for Paris et al. (2009) for the years 2001-2009 and could not find this paper listed. Therefore, I do not know how to reference it.

P18439 L15-20 We have merged Sections 3.2 with 3.3 and 4.2 with 4.3. We also deleted some of the panels in the figures of these sections. The result is more streamlined sections with much less wording. Material such as you indicated has been removed.

P18439 L27 We have re-phrased this sentence as suggested. Once again, this section has been extensively revised.

P18439 L29 The revised version has been modified as suggested.

P 18440 L1 and16 We are referring to our own web site. That is made clear in the revision.

P18440 L18 We have rephrased this sentence.

P18440 L25 This sentence has been re-phrased.

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P18440 after L26â€”As noted above, we have merged Sections 3.3 with 3.4 and 4.3 with its un-numbered counterpart.

P18443 L14â€”The comma has been inserted.

Table 2â€”Table 2 has been corrected.

Figure 1 and throughoutâ€”We capitalized Spring when used before a year, e.g., Spring 2008, but used lower case if spring was used without a year. Therefore, in Figure 1, we modified the caption to become “. . .during a) Spring 2008 and b) Summer 2008.”

The figures have been improved and enlarged.

Figure 12â€”We added the word “burning” to the caption.

Figure 13â€”We have removed two of the panels, thereby making the remaining panels larger and easier to view.

Figure 20 (and 7, 8, and 21)â€”The captions have been changed to indicate that the values (color dots) are given at intervals of 5 deg. longitude. We have transformed all of the panel b)s into color density plots as requested. We agree that this provides more information.

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Interactive comment on Atmos. Chem. Phys. Discuss., 9, 18417, 2009.

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