

Interactive comment on “Multi-species inversion of CH₄, CO and H₂ emissions from surface measurements” by I. Pison et al.

I. Pison et al.

Received and published: 18 March 2009

Technical comments

Here is a list of comments as a guideline for the authors to improve the presentation of their study.

P20689, L20: Place 'HCHO' between brackets or write '(CH₄, CO, HCHO (formaldehyde), and H₂)'

P20690, L17: Replace 'space' by 'spatial'.

P20690, L18: Write out '3-D' at first occurrence.

P20691, L10: 'LMDZ' is sometimes written with lowercase 'z' and sometimes with capital 'Z'. Be consistent.

P20692, L16-18: 'Wet lands' should be 'Wetlands'. Also, remove 'the' before the source

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names. Also, anaerobic processes do not take place in all of those sources.

P20692, L25-27: What is 'combustion of fossil energies'?

P20693, L10: Remove 'de'.

P20694, L27: Replace 'location' by 'locations'.

P20695, L6: What is 'or the NOAA'?

P20695, L9: 'data' should be 'datum' (or 'measurement').

P20696, L4: Add 'much' between 'accumulate' and 'in'.

P20697, L11: Remove comma after 'inversion'.

P20698, L19 and 22: Replace 'increase of' by 'increase by'.

P20700, L10: Replace 'After the mono-species inversion' by something like 'In the CO mono-species inversion'.

All these changes will be made in the text.

P20700, L19-21: What are 'points'?

They are 'percentage points', this will be modified.

P20702, L5-6: 'tri' should be 'three'. Or use '3-D', once this abbreviation has been introduced earlier in the text.

P20702, L21-22: Replace 'RMS' by 'RMSs' or 'RMS values'.

P20702, L26: Start new sentence at 'we'.

P20704, L6: Replace 'lay' by 'lie'.

P20704, L11: Replace 'measures' by 'measurements'.

Table 1: Add semicolons between different emission sources on one line.

Table 2: Use consistently two digits for correlations.

Table 3: Don't remove the last digit if it is a zero (3 cases).

Table 4: Bousquet et al. was published in 2006 instead of 2005.

Table 4: Again, don't remove the last digit if it is a zero.

Fig. 4, caption: Replace 'as functions of' by 'compared with'.

Fig. 4, caption: Replace last sentence by: 'Slopes a and correlation coefficients r of linear regressions $[mod]=a[obs]+b$ are also indicated'.

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Fig. 5c: Do not use grey in the color scale.

Fig. 5, caption: Add 'for CO and CH₄' in first sentence.

All these changes will be made in the text.

Fig. 9, figure and caption: 'rms' should be capitalized.

This Figure has been modified.

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 20687, 2008.

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