

Measurement summary and intercomparisons, and Model Comparisons for the MSY and BCN sites

5th DAURE Mtg - 26-May-2009

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University of Colorado

(with PRELIMINARY data from all participant groups)

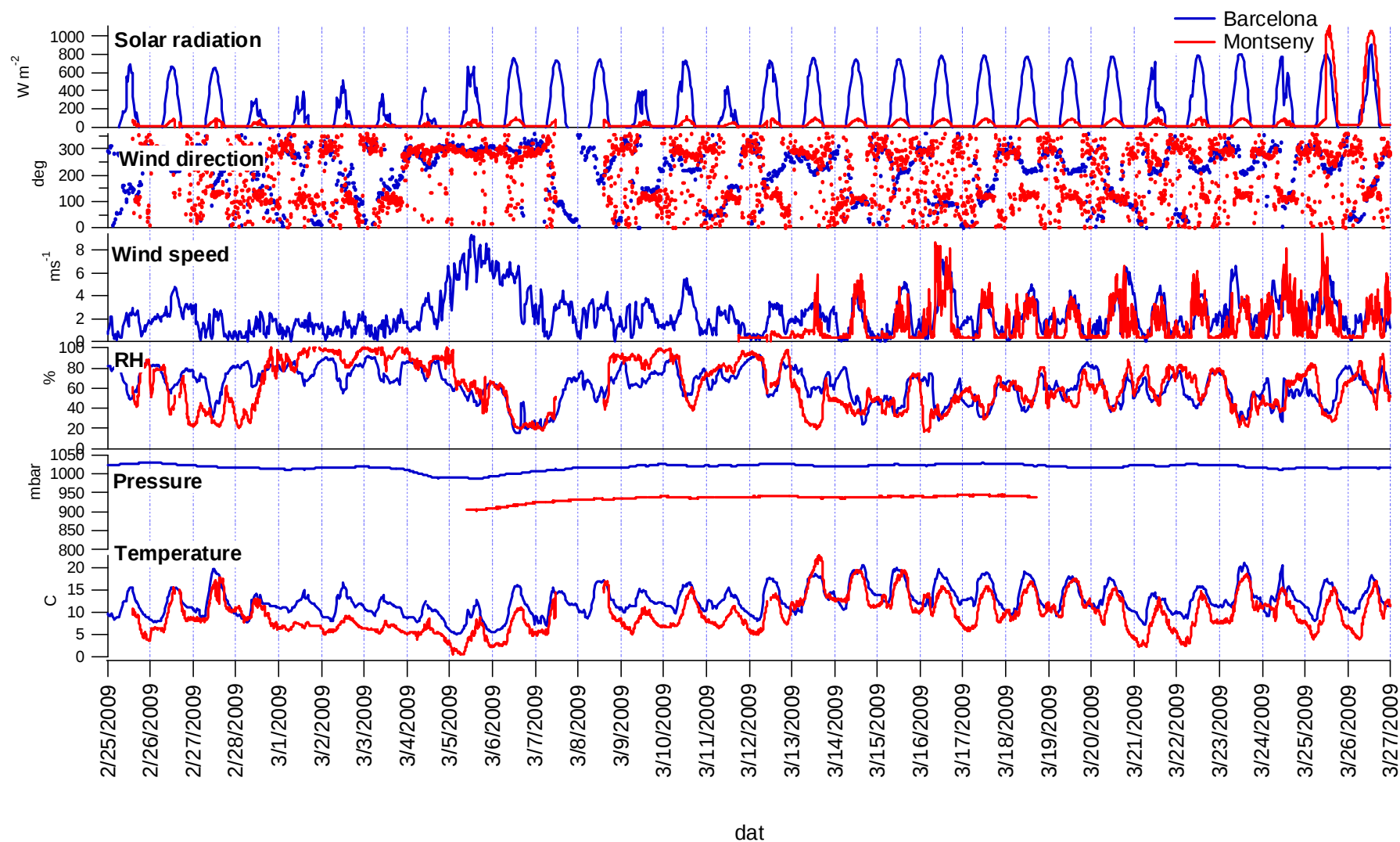
PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

COMPARISON of DATA between BARCELONA and MONTSENY sites

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5th Meeting, 26-May-2009

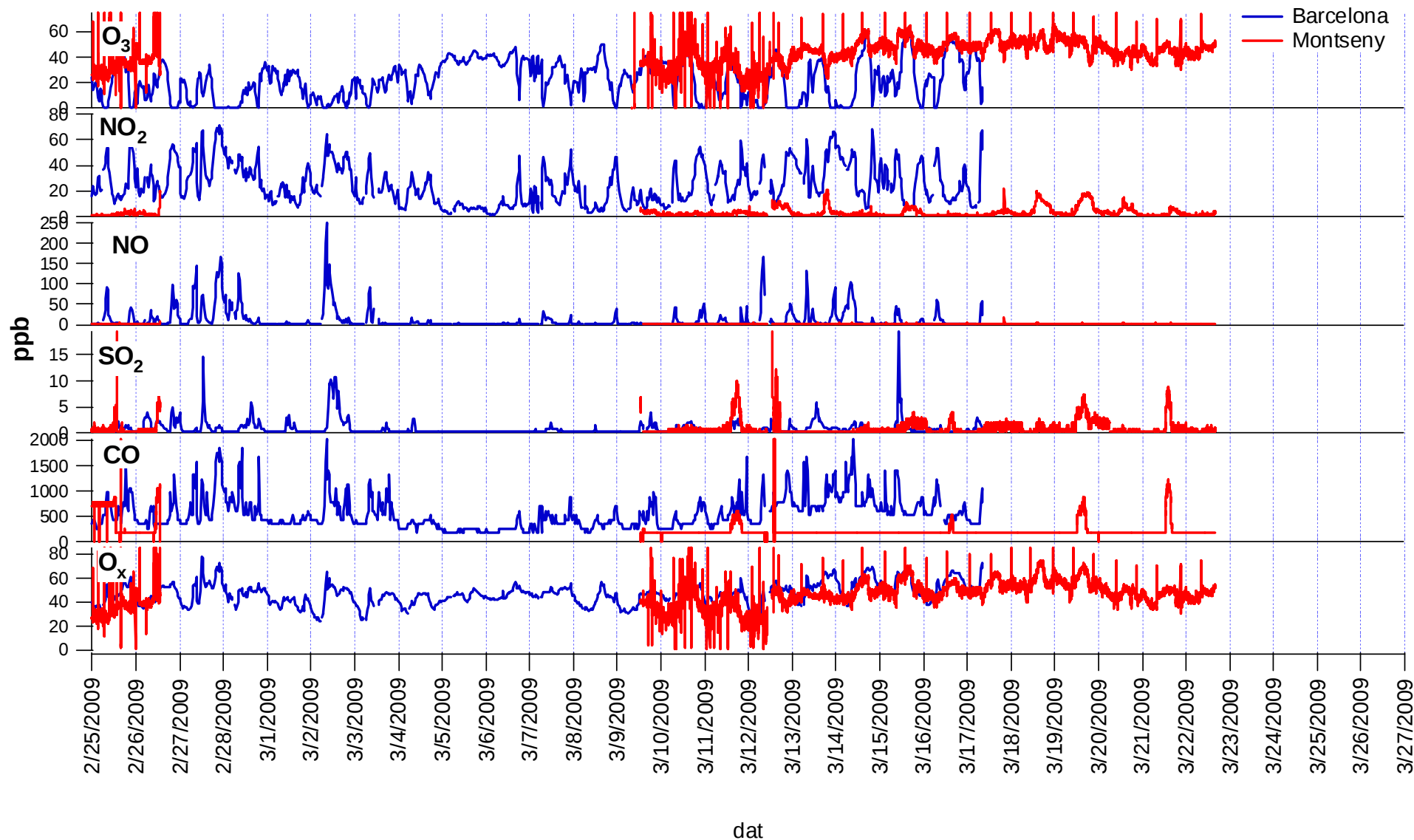
PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

DATA: Meteorology Barcelona vs Montseny



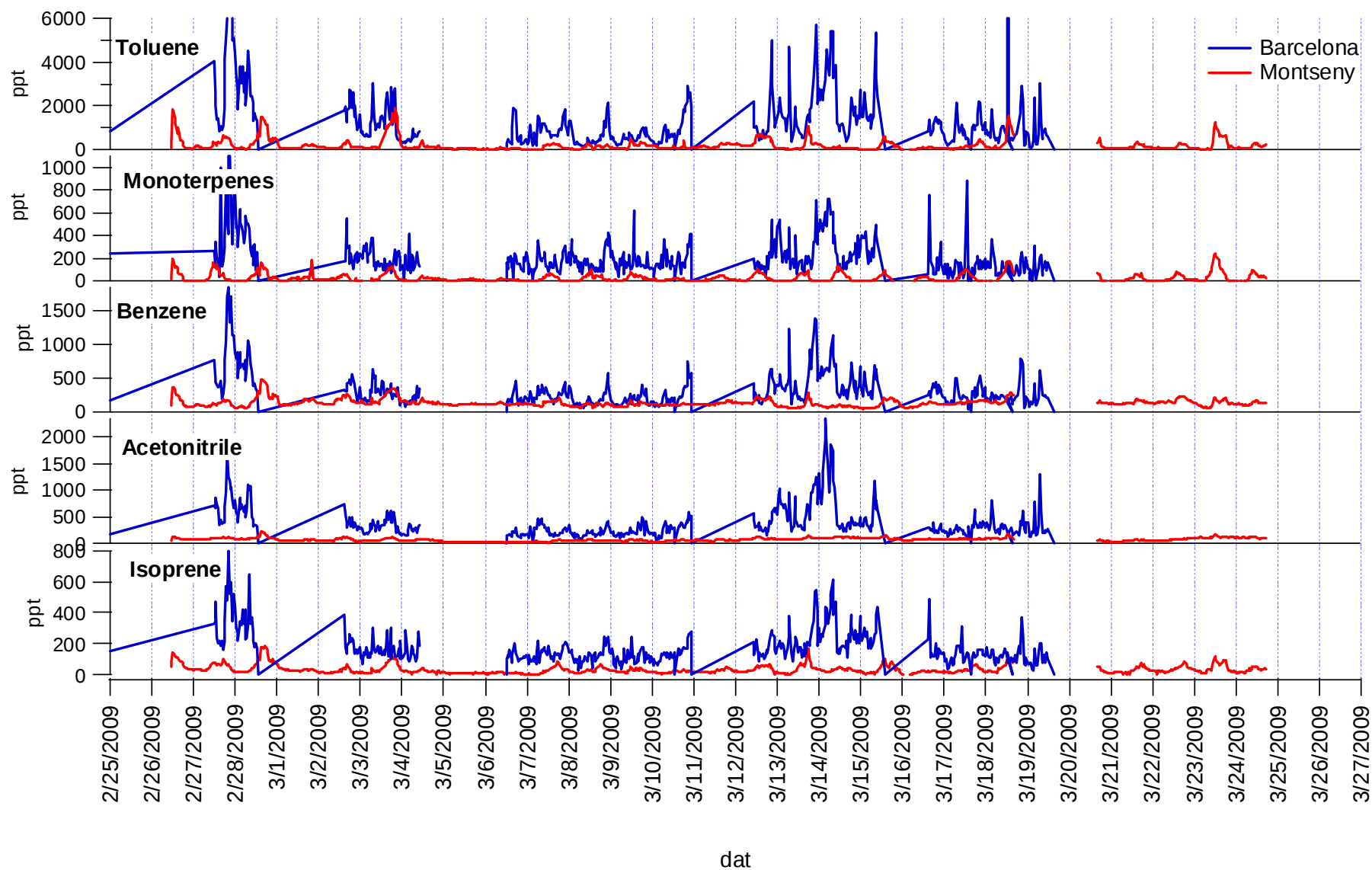
PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

DATA: Gases Barcelona vs Montseny



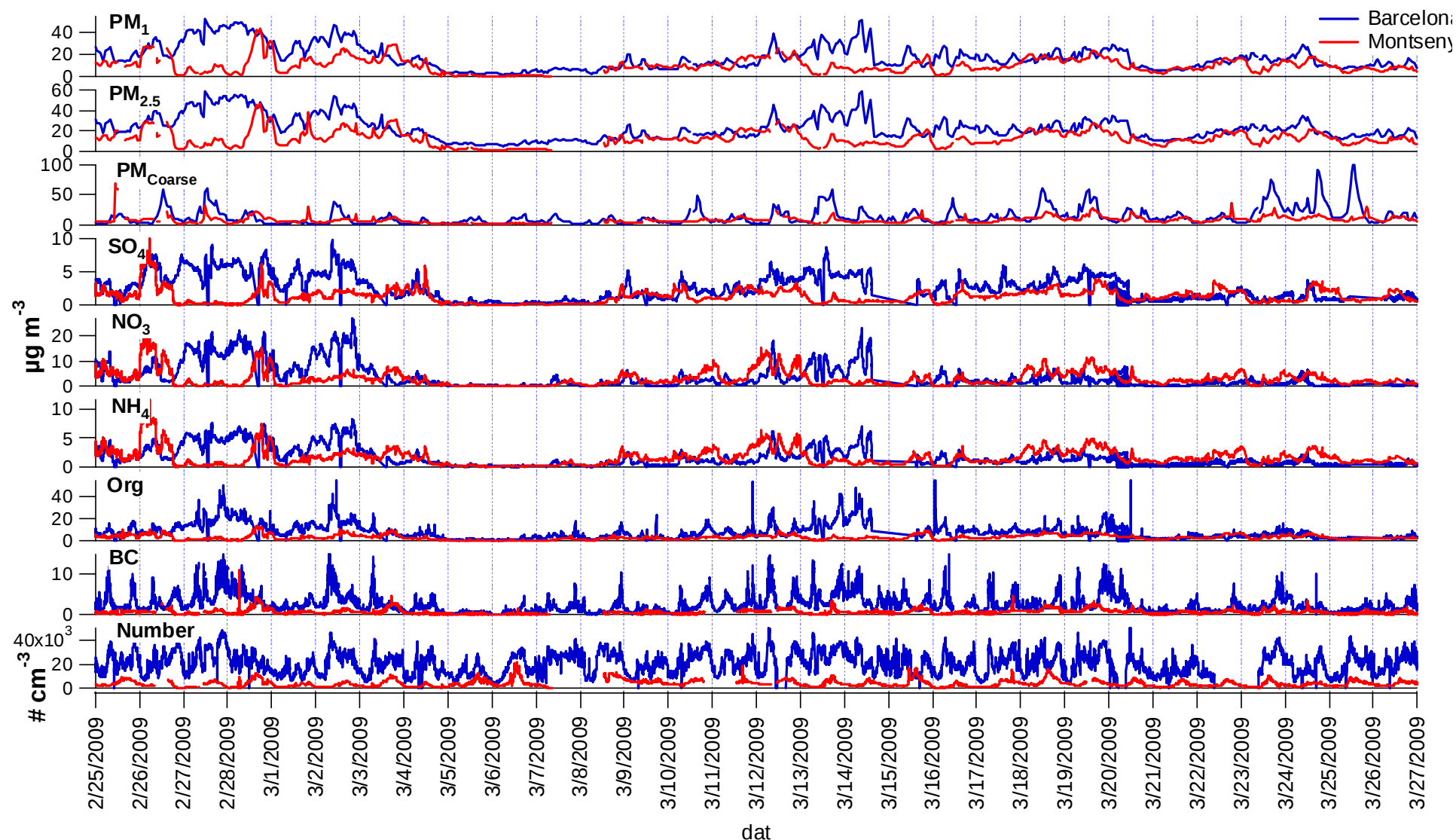
PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

DATA: PTRMS Barcelona vs Montseny



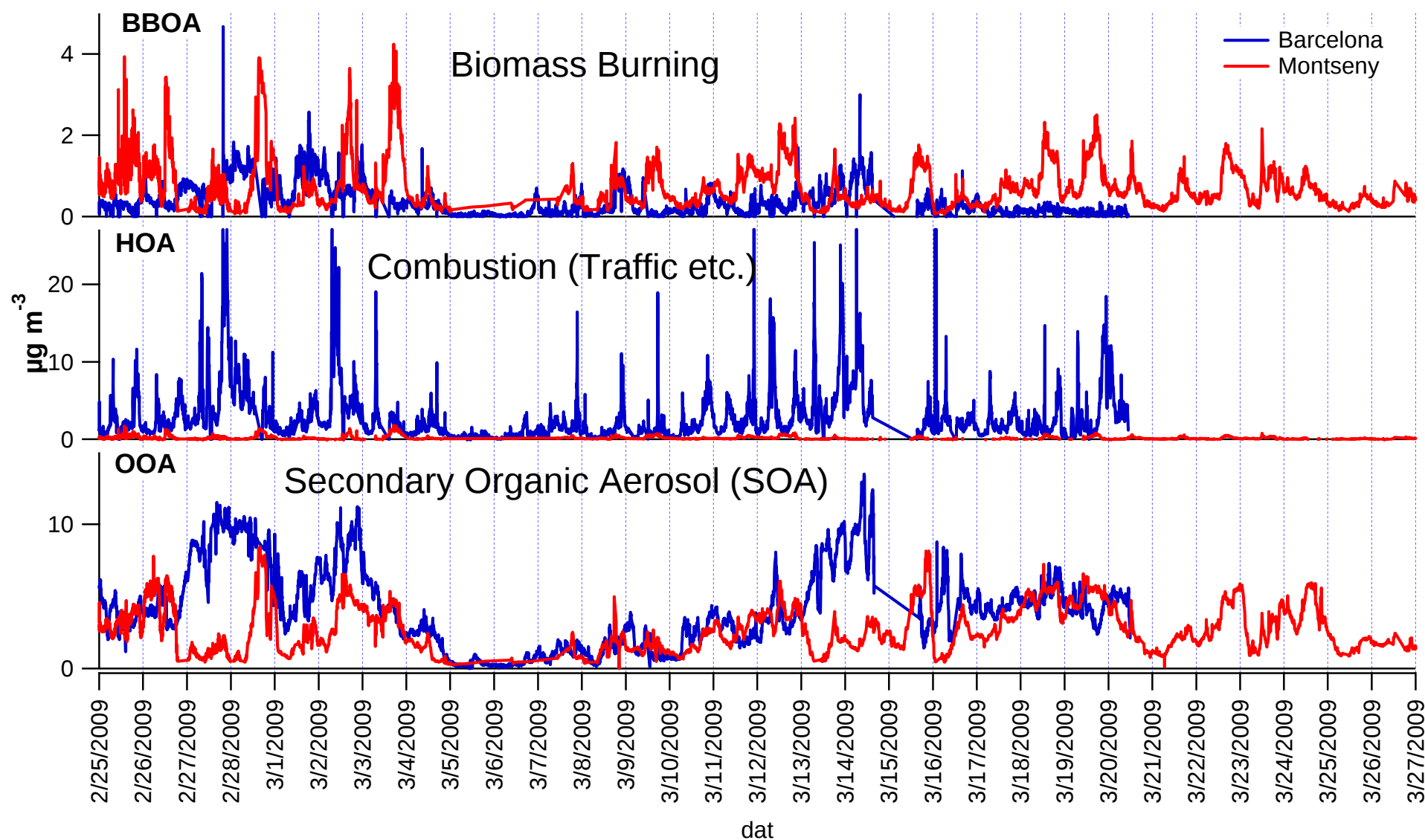
PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

DATA: Aerosol Barcelona vs Montseny



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

DATA: Organic Aerosol Components Barcelona vs Montseny



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

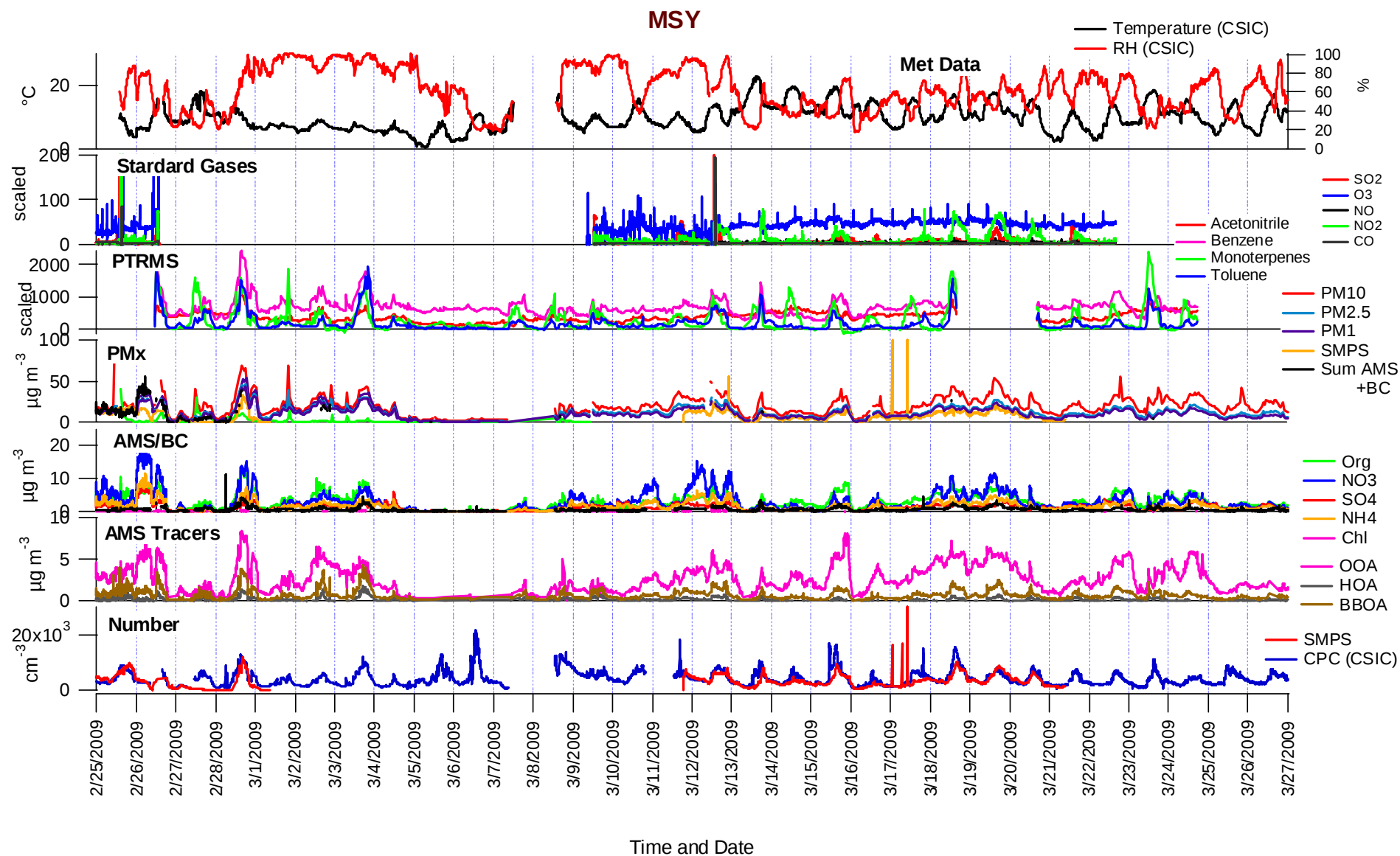
SUMMARY OF DATA AND COMPARISON of DATA vs MODEL for MONTSENY site

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PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

MASTER PLOT

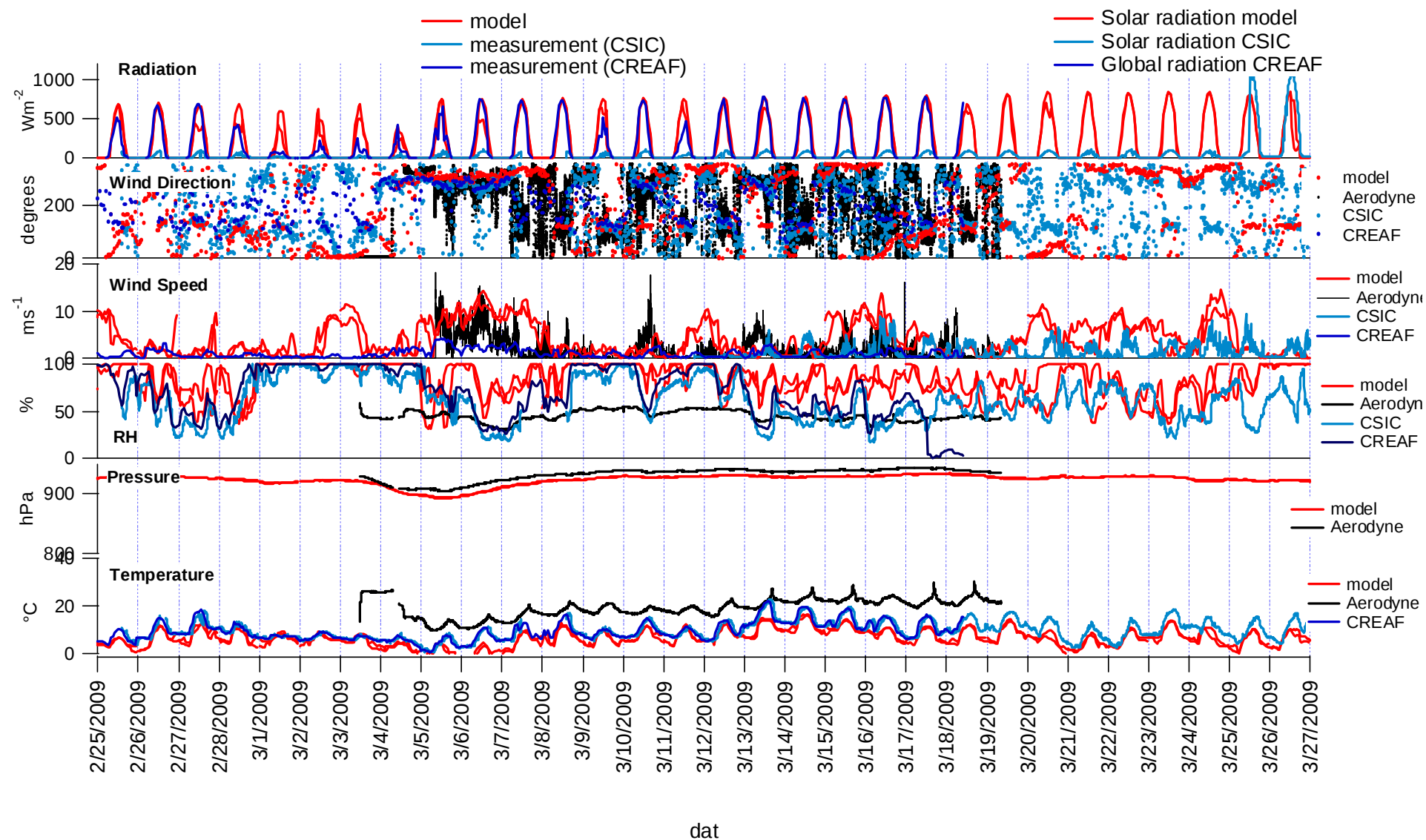
Montseny (MSY)



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

MET DATA COMPARISON

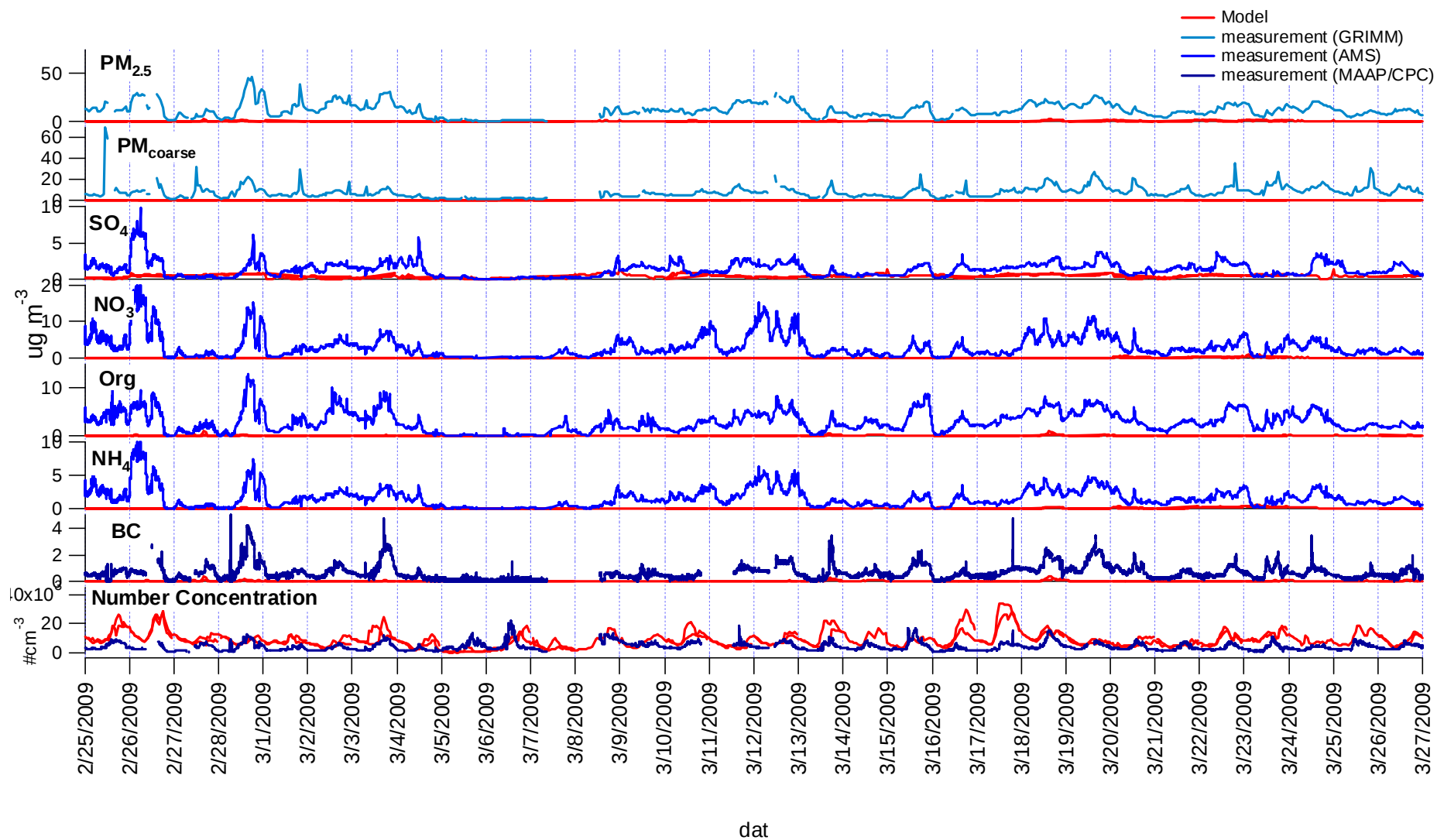
Montseny (MSY)



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

AEROSOL MODEL COMPARISON

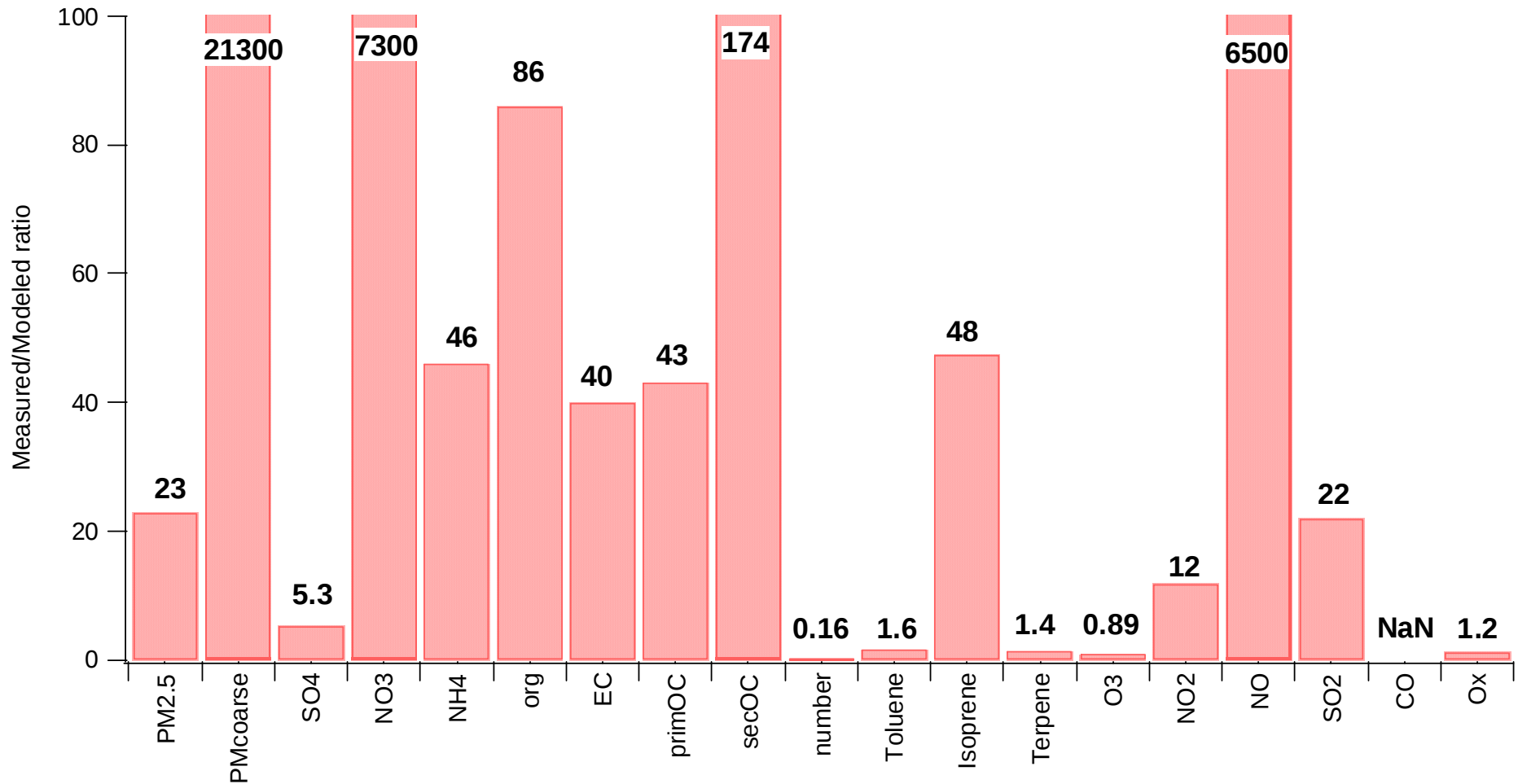
Montseny (MSY)



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

MEASUREMENT VS. MODEL COMPARISON SUMMARY

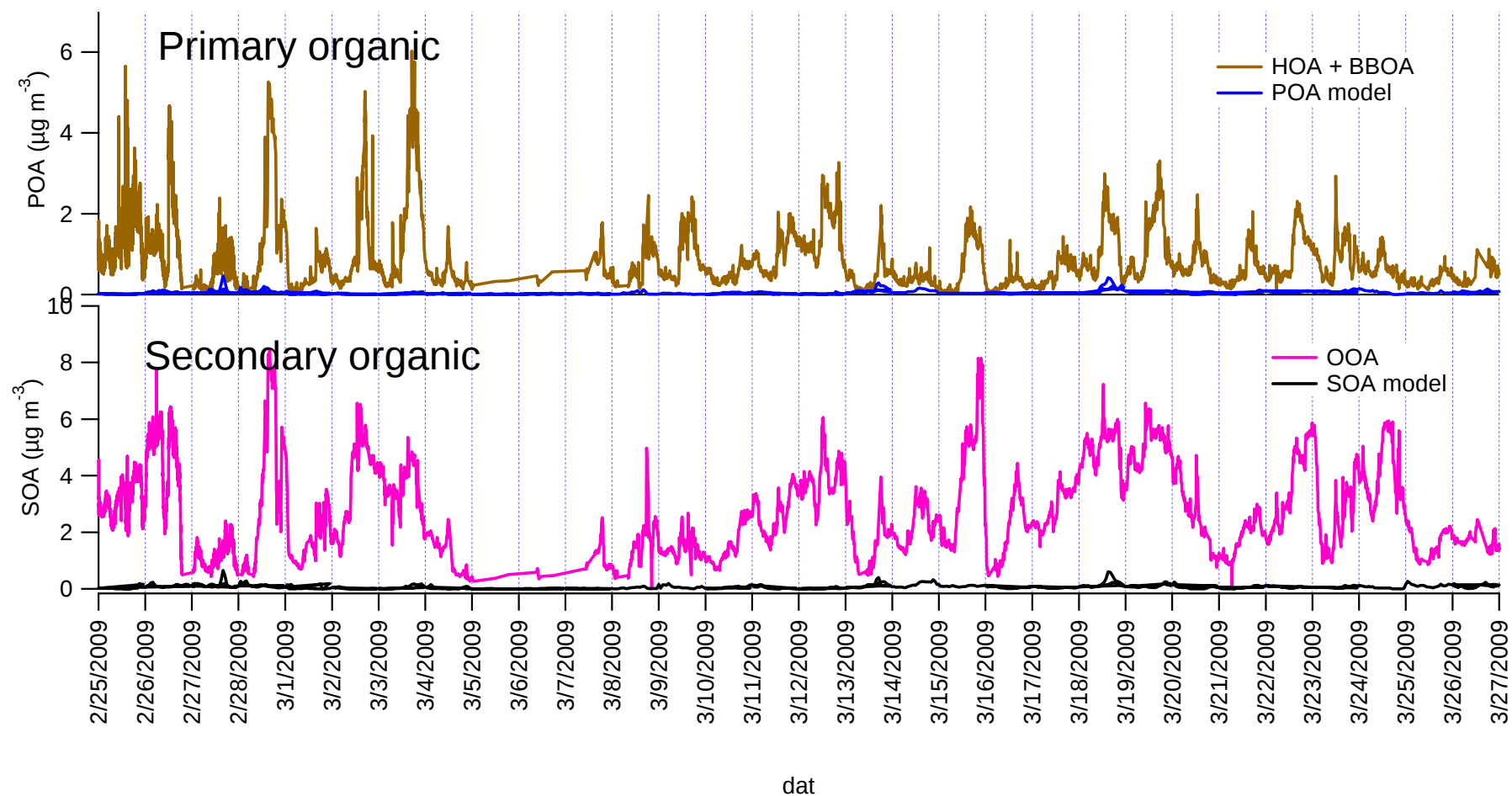
Montseny (MSY)



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

ORGANIC AEROSOL COMPARISON

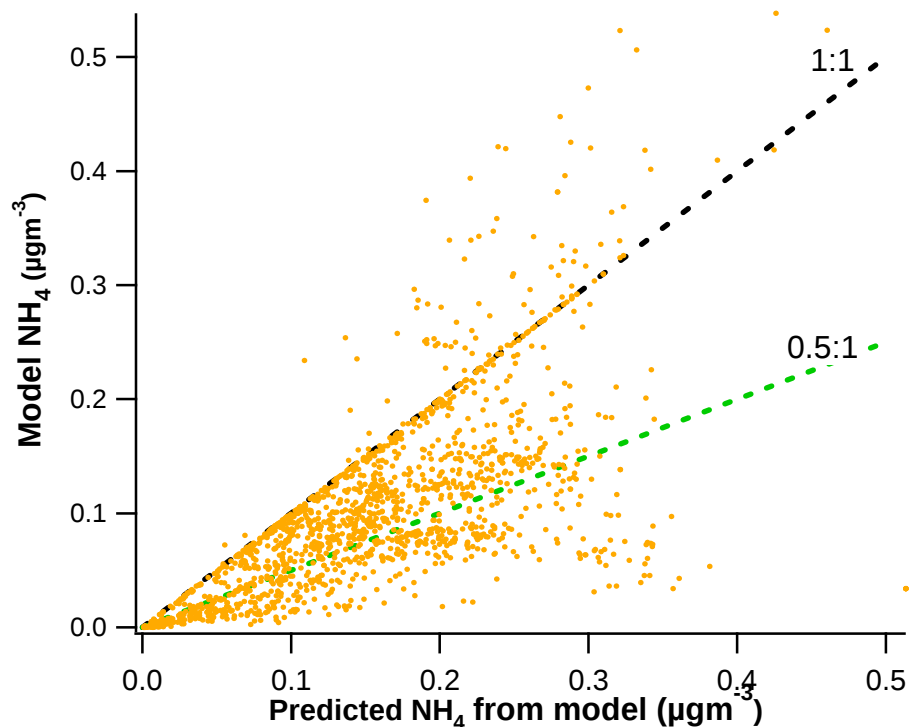
Montseny (MSY)



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

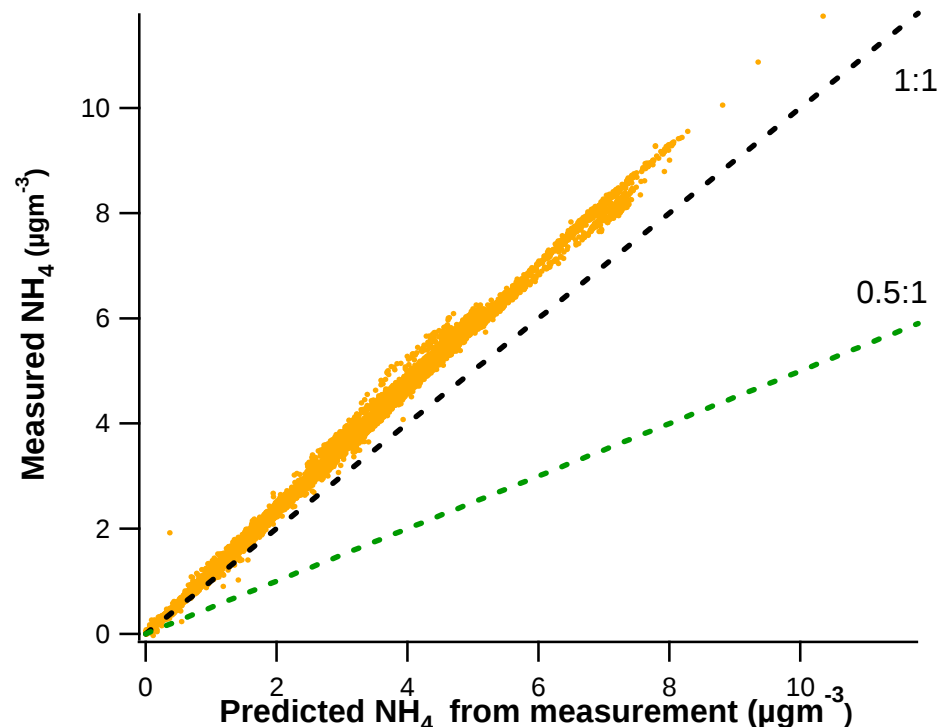
Montseny (MSY)

AEROSOL ACIDITY IN MODEL



Model appears to be too acidic, on average containing ammonium bisulfate only (NH_4HSO_4)...

AEROSOL ACIDITY IN MEASUREMENTS

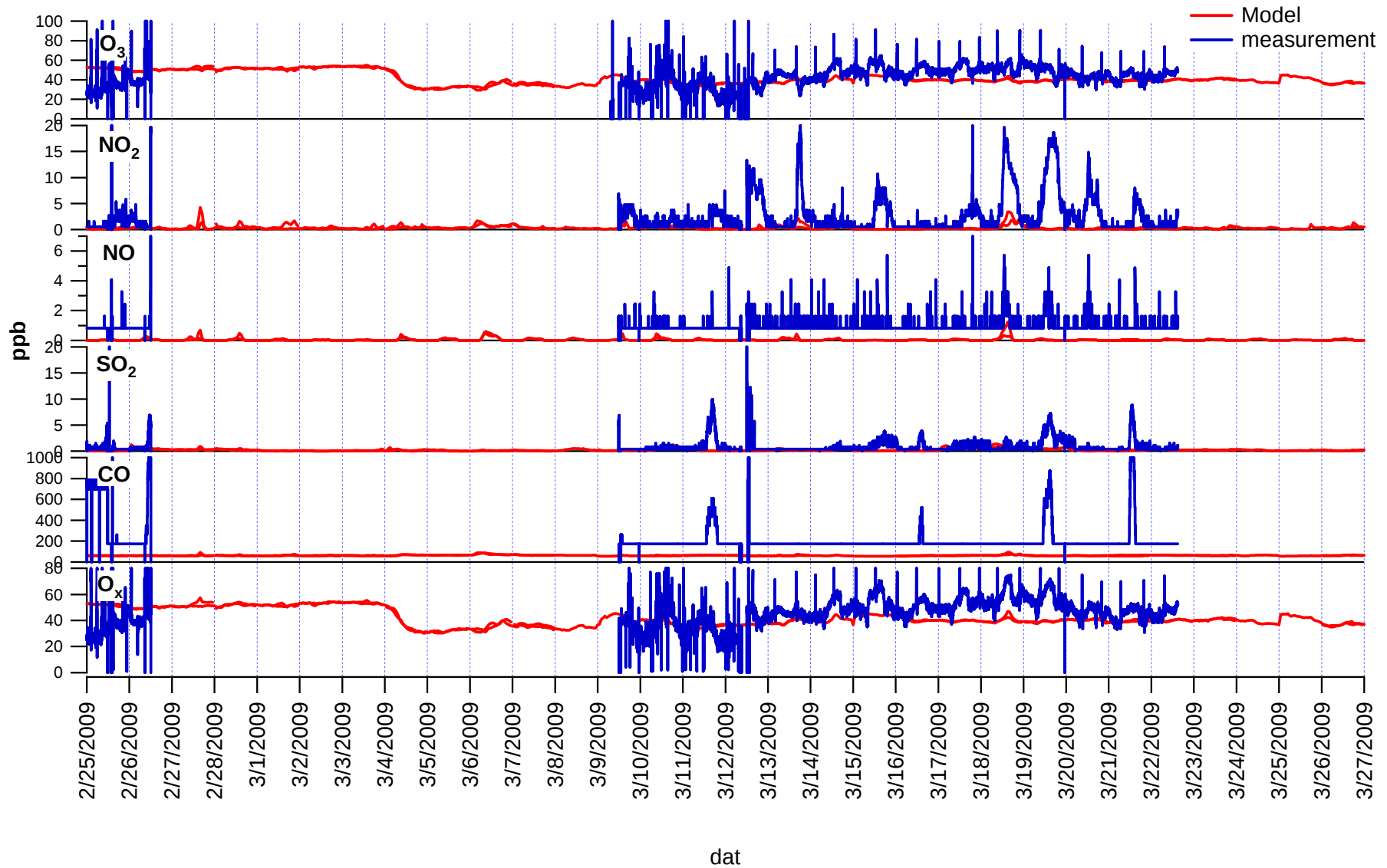


Data appears fully neutralized by NH_4 within the precision of the preliminary calibrations

PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

Montseny (MSY)

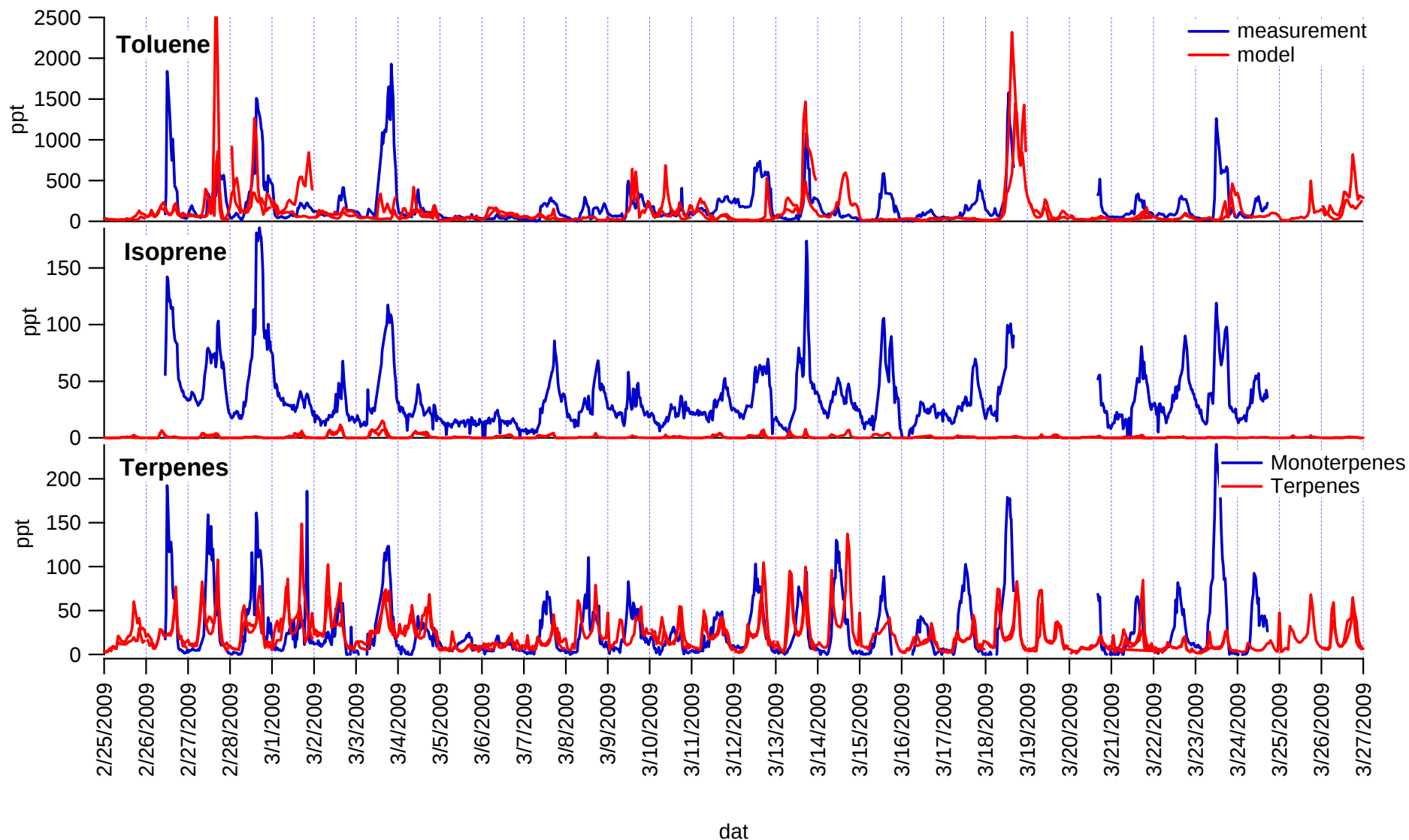
GAS COMPARISON TO MODEL



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

Montseny (MSY)

ORGANIC GAS COMPARISON TO MODEL



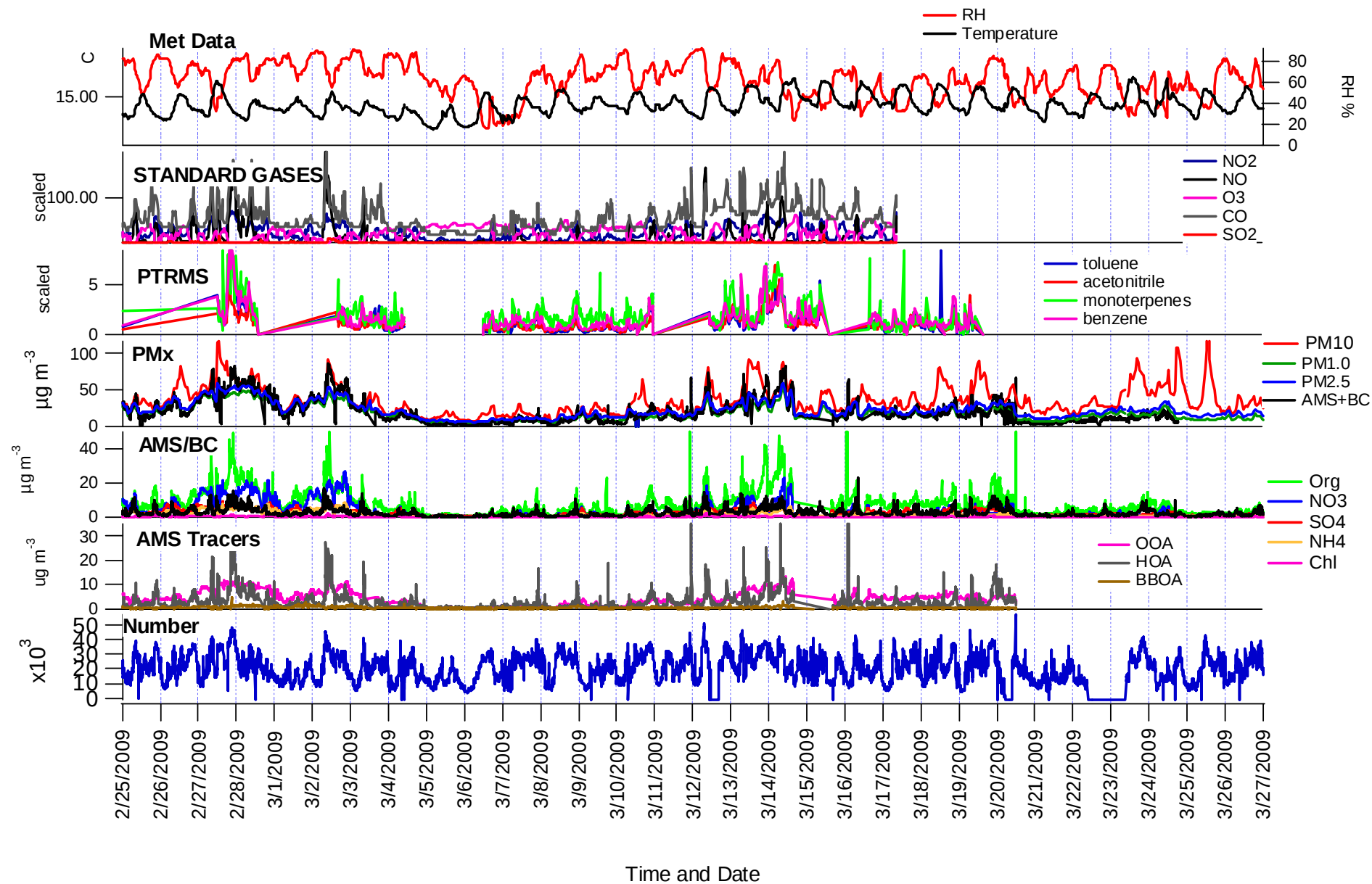
PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

SUMMARY OF DATA AND COMPARISON of DATA vs MODEL for BARCELONA site

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PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

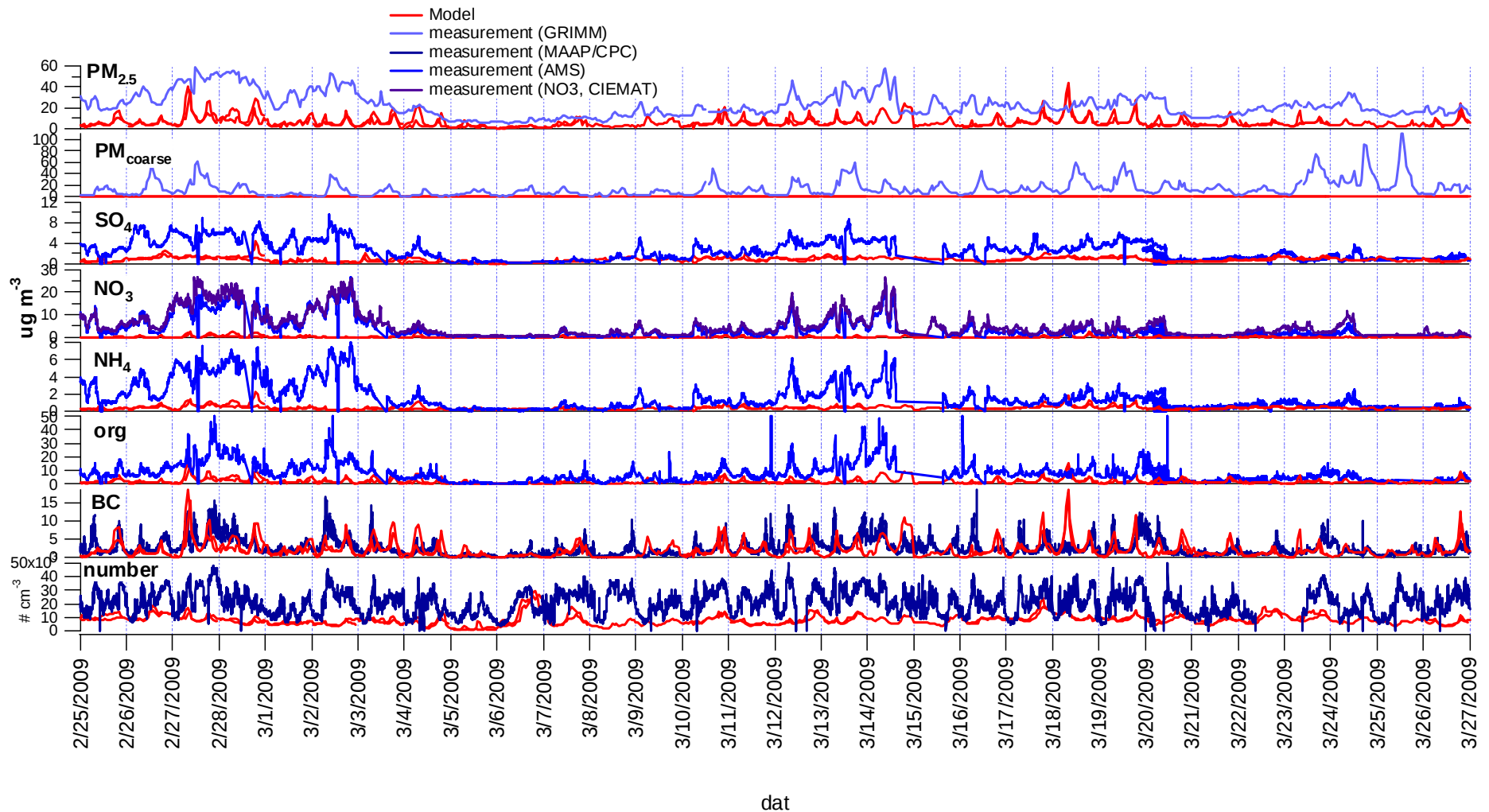
Barcelona Site



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

Barcelona Site

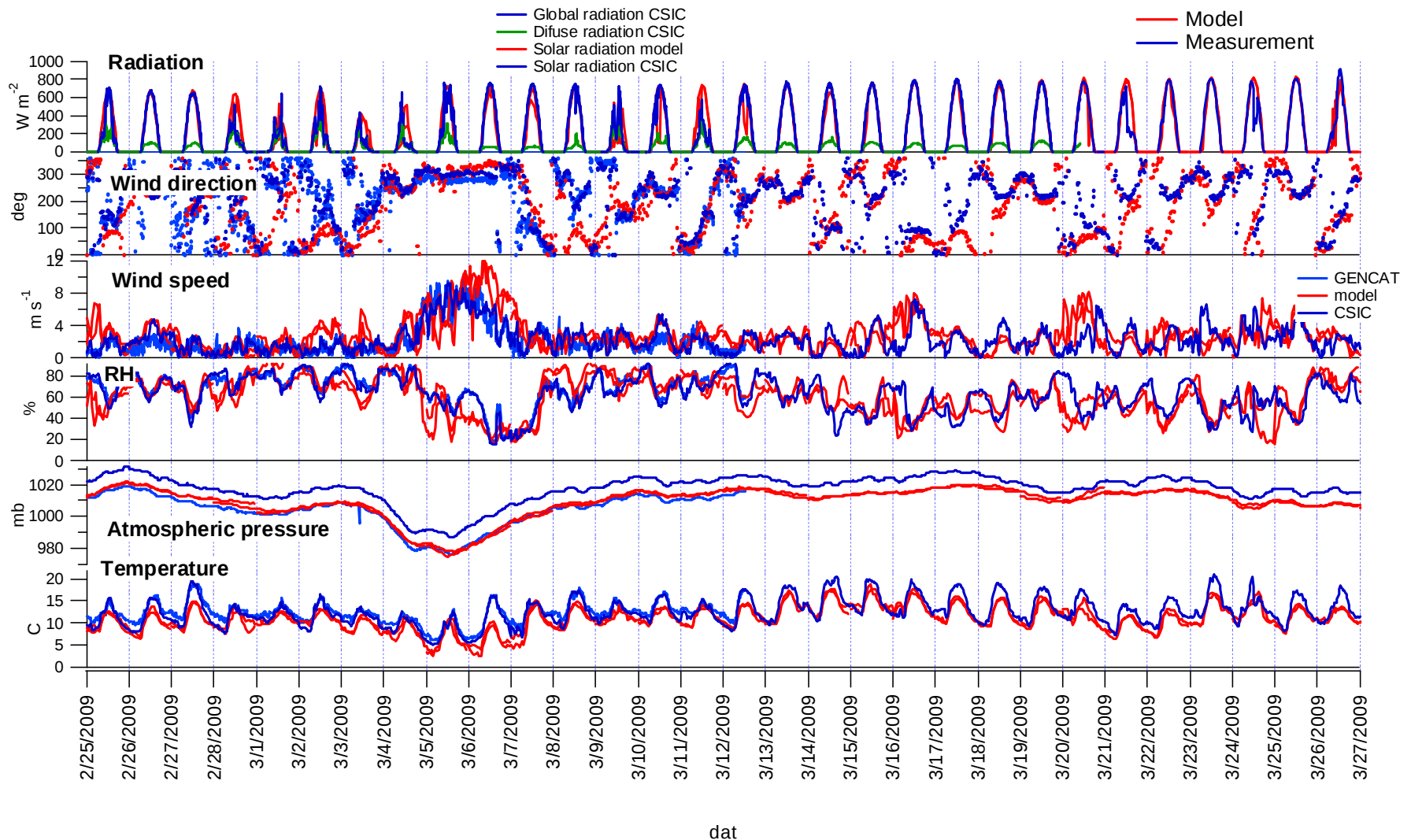
Aerosol modeling comparison detail



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

Barcelona Site

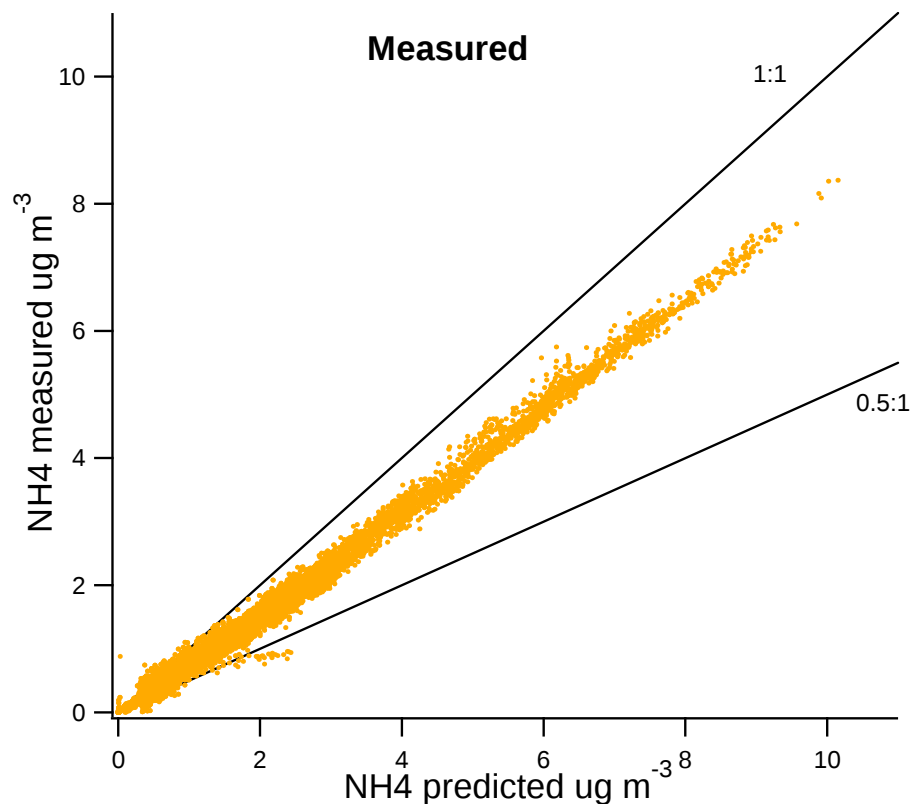
Meteorological data comparison with model



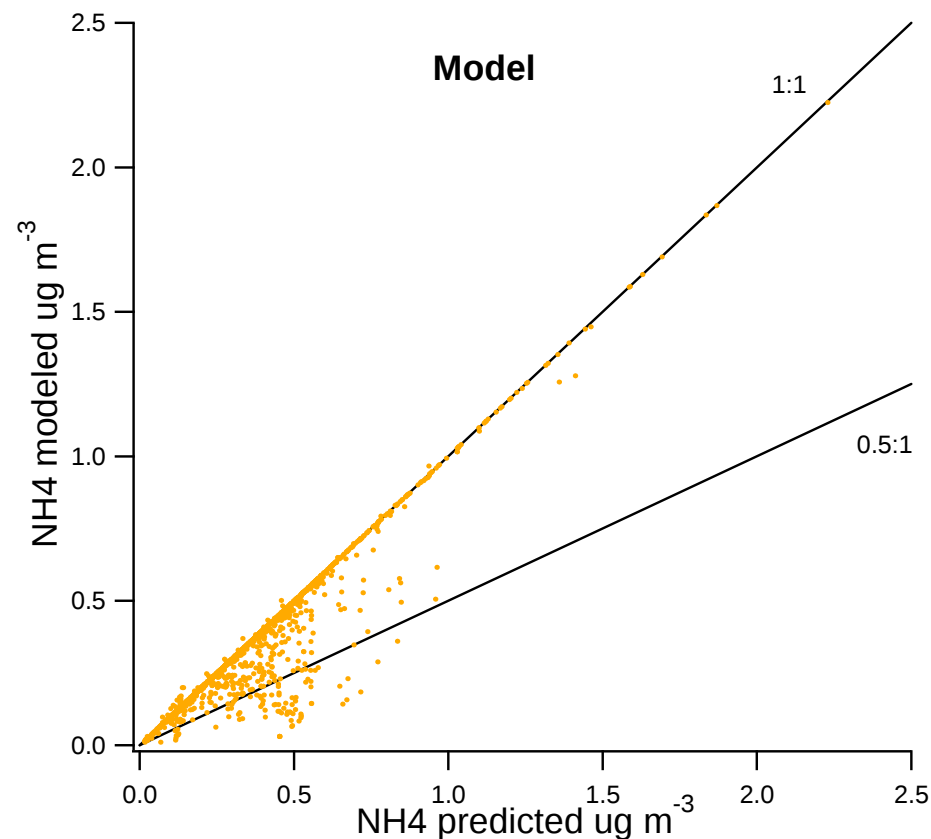
PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

Barcelona Site

Aerosol acidity comparison to model



Neutralized with experimental uncertainty

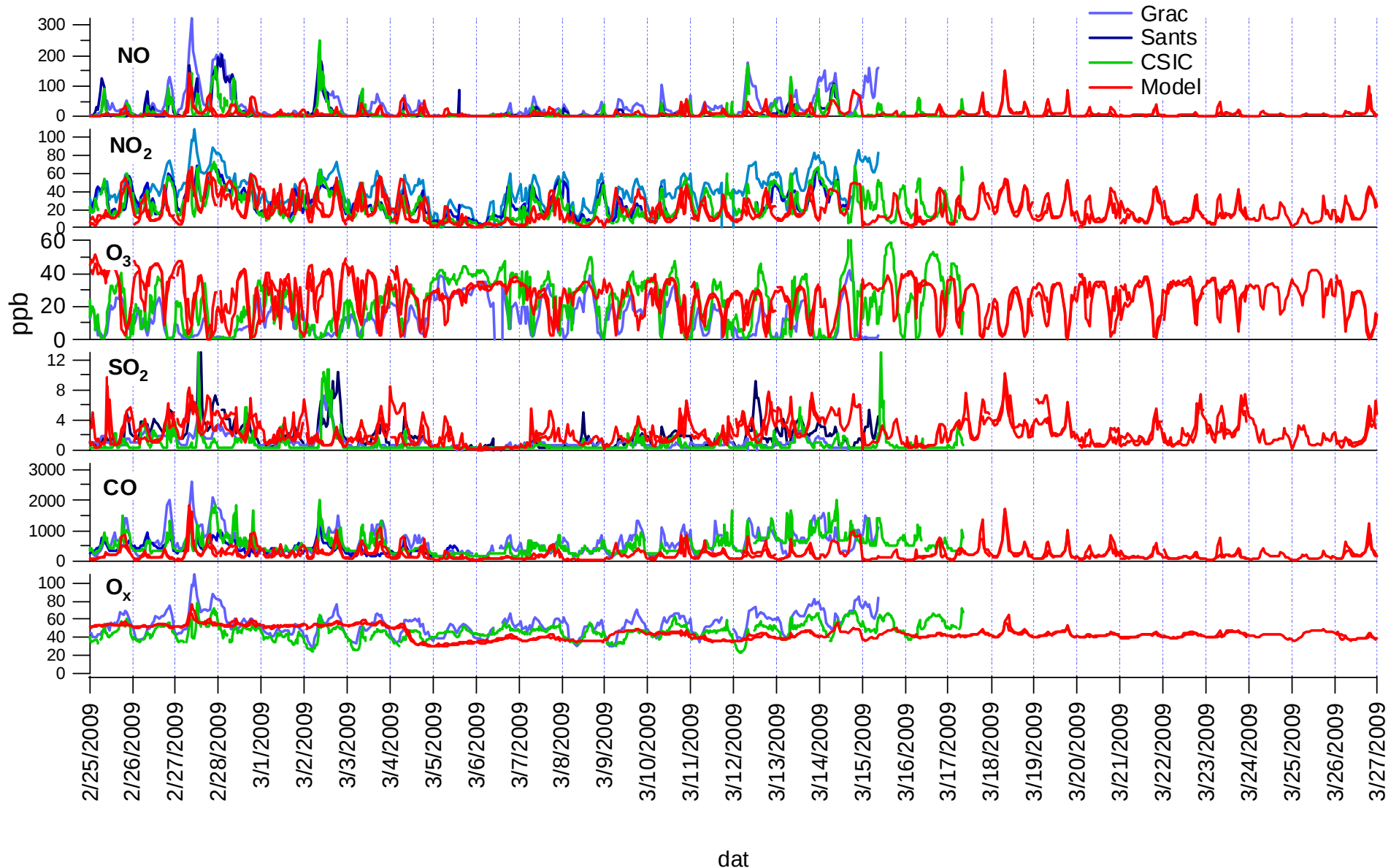


Sometimes neutralized and sometimes acidic

PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

Barcelona Site

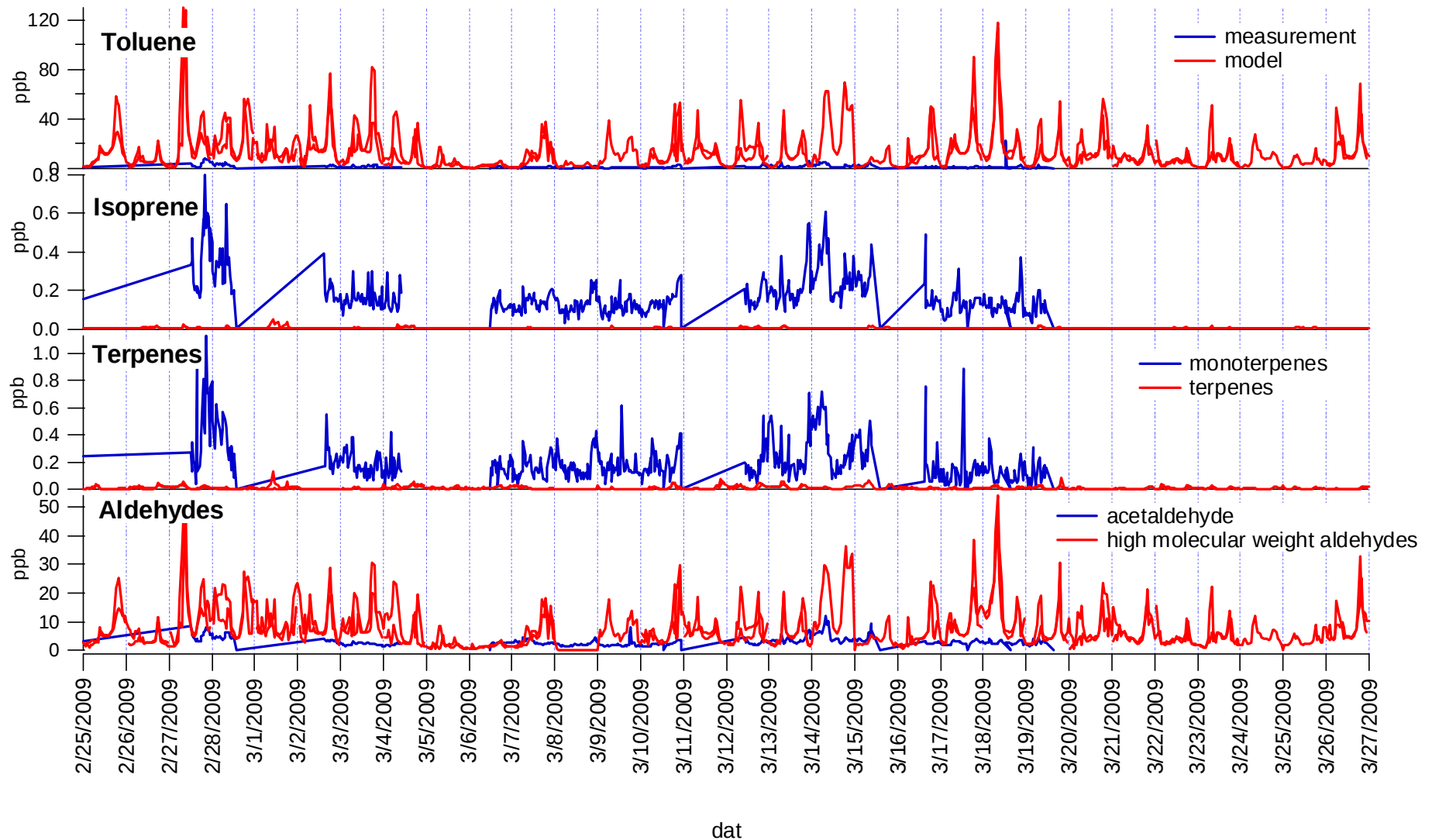
Gases comparison to model



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

Barcelona Site

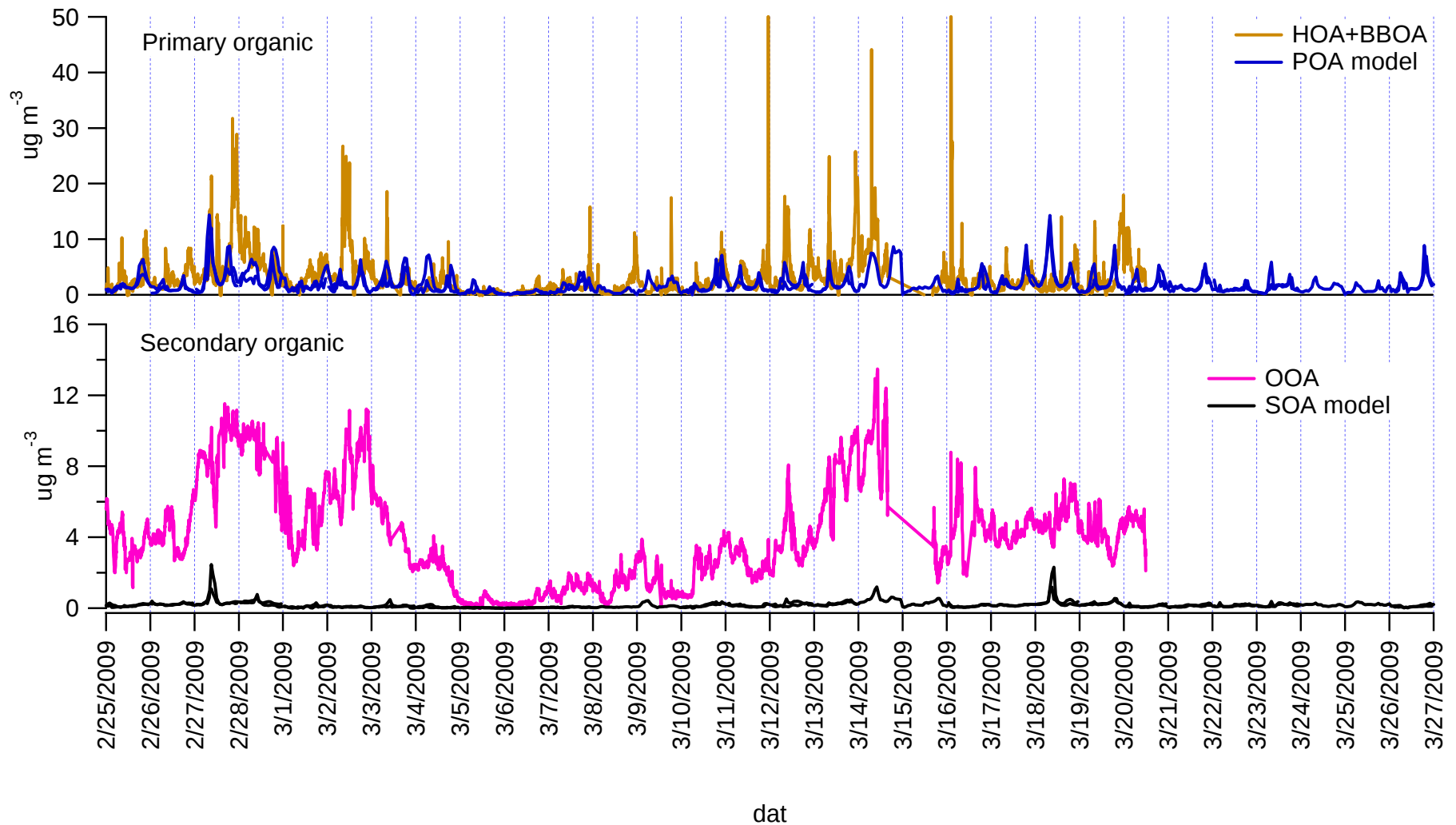
Organic gases comparison to model



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

Barcelona Site

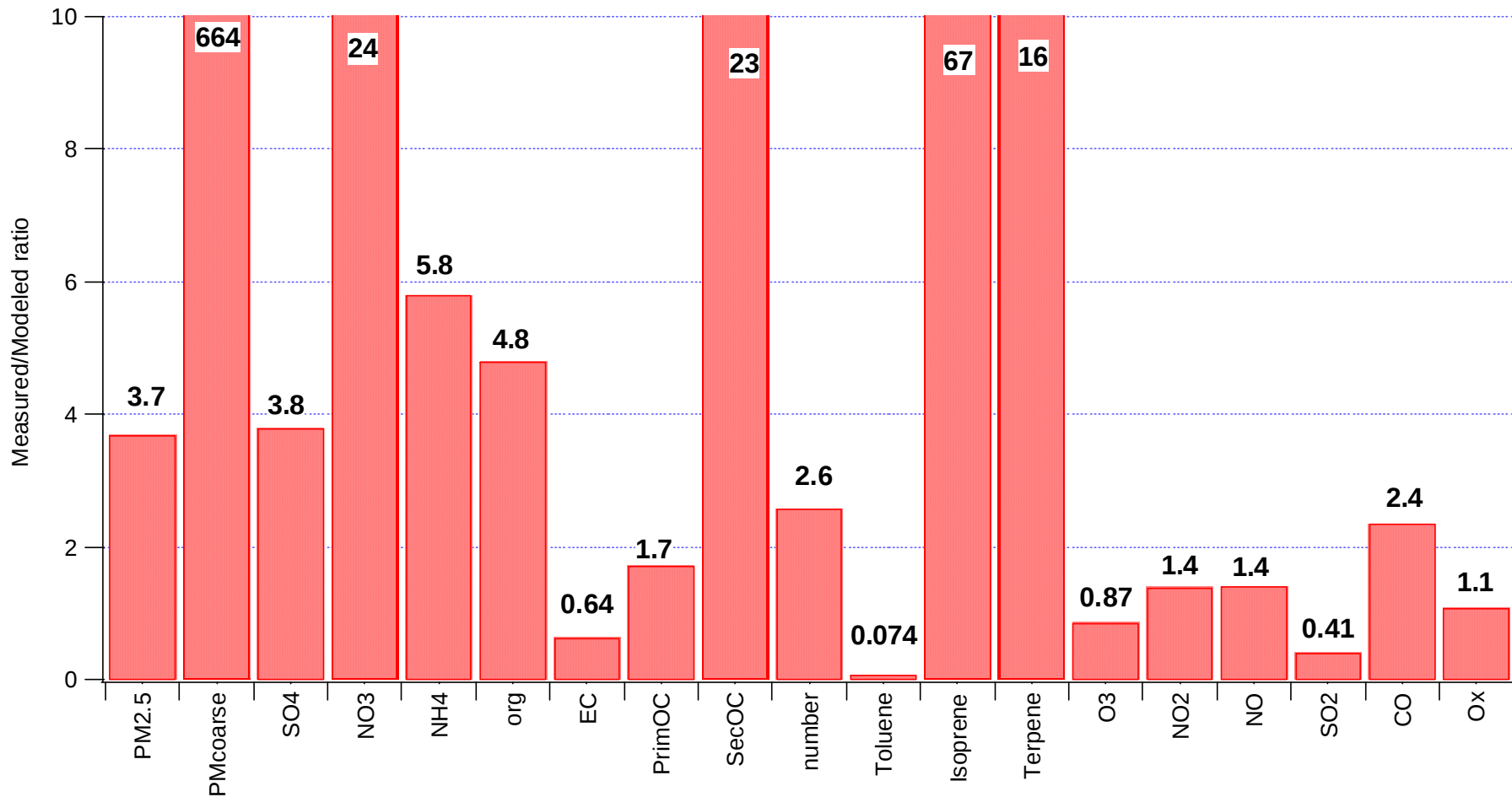
Organic aerosol comparison detail



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

Barcelona Site

MEASUREMENT VS. MODEL COMPARISON SUMMARY



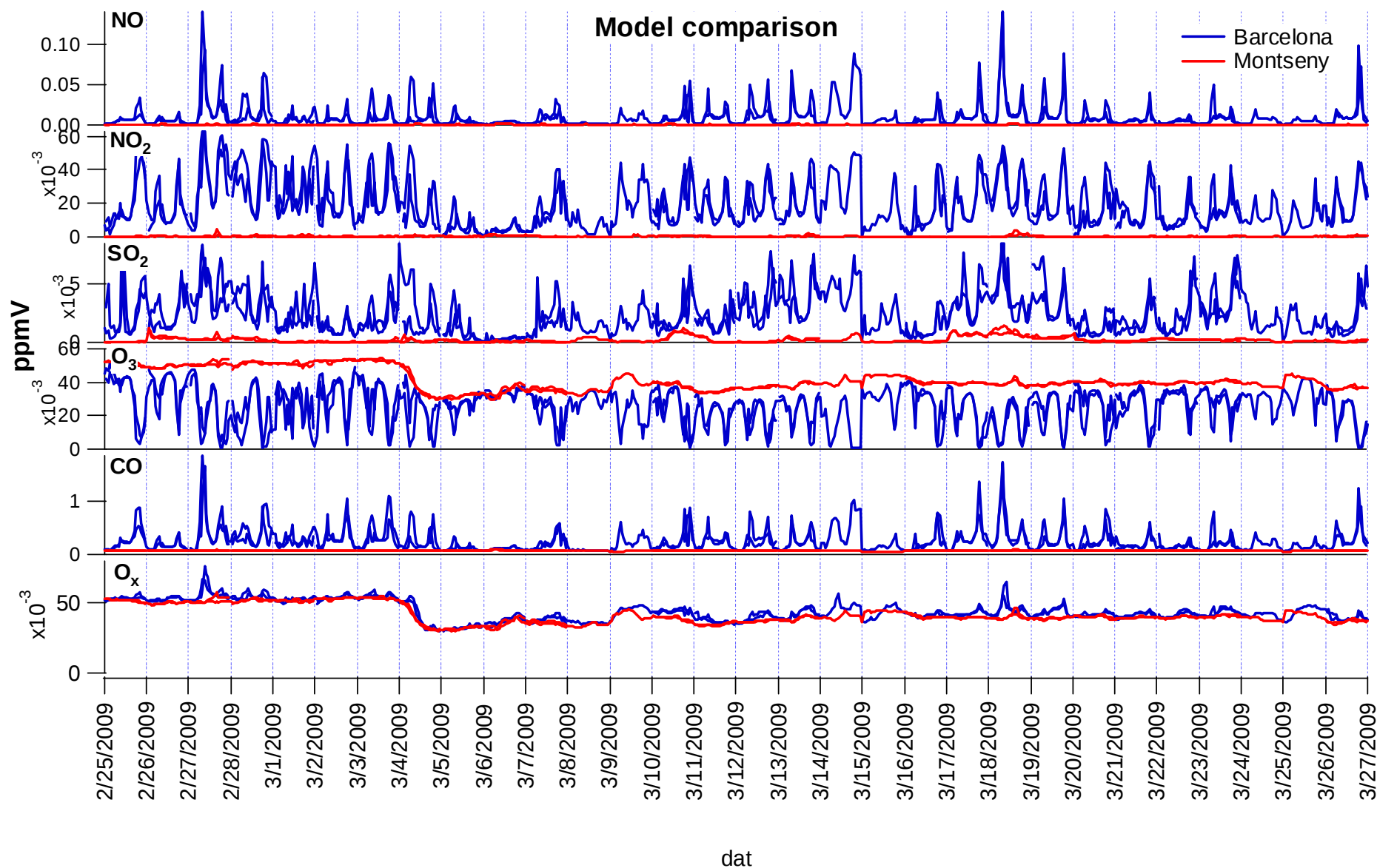
PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

COMPARISON of **MODEL RESULTS** between BARCELONA and MONTSENY sites

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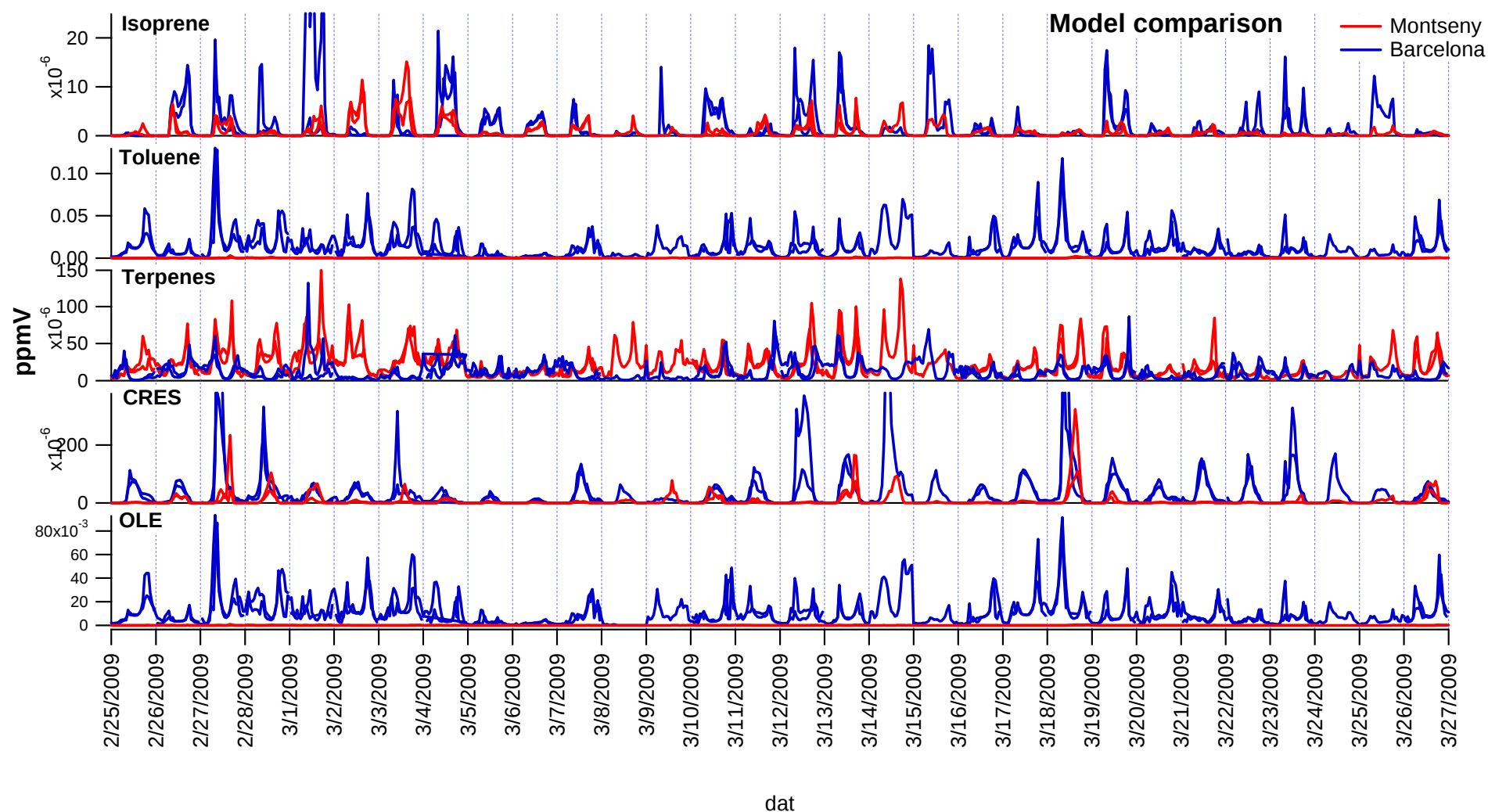
PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

MODEL: Gases Barcelona vs Montseny



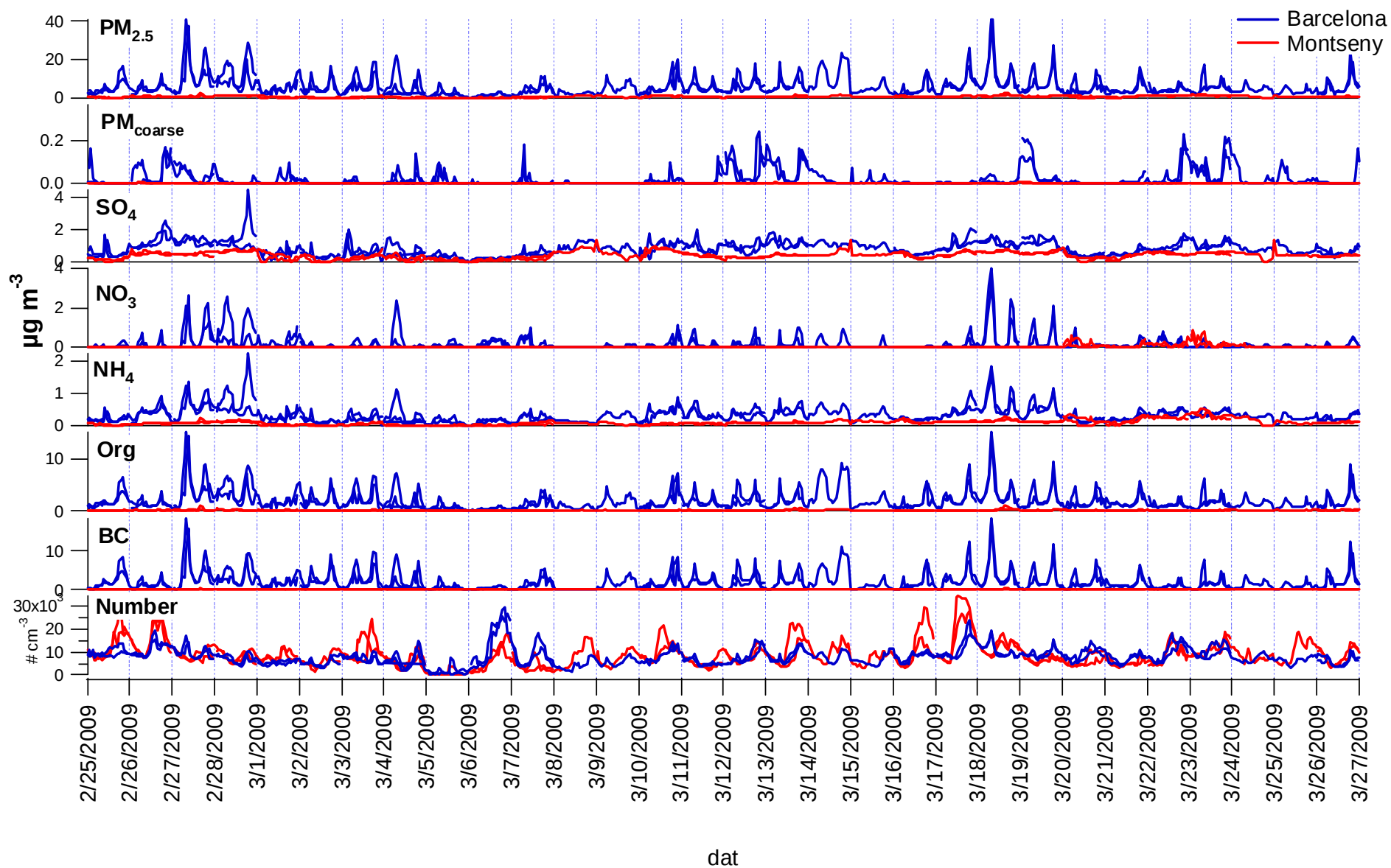
PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

MODEL: Organic Gases Barcelona vs Montseny



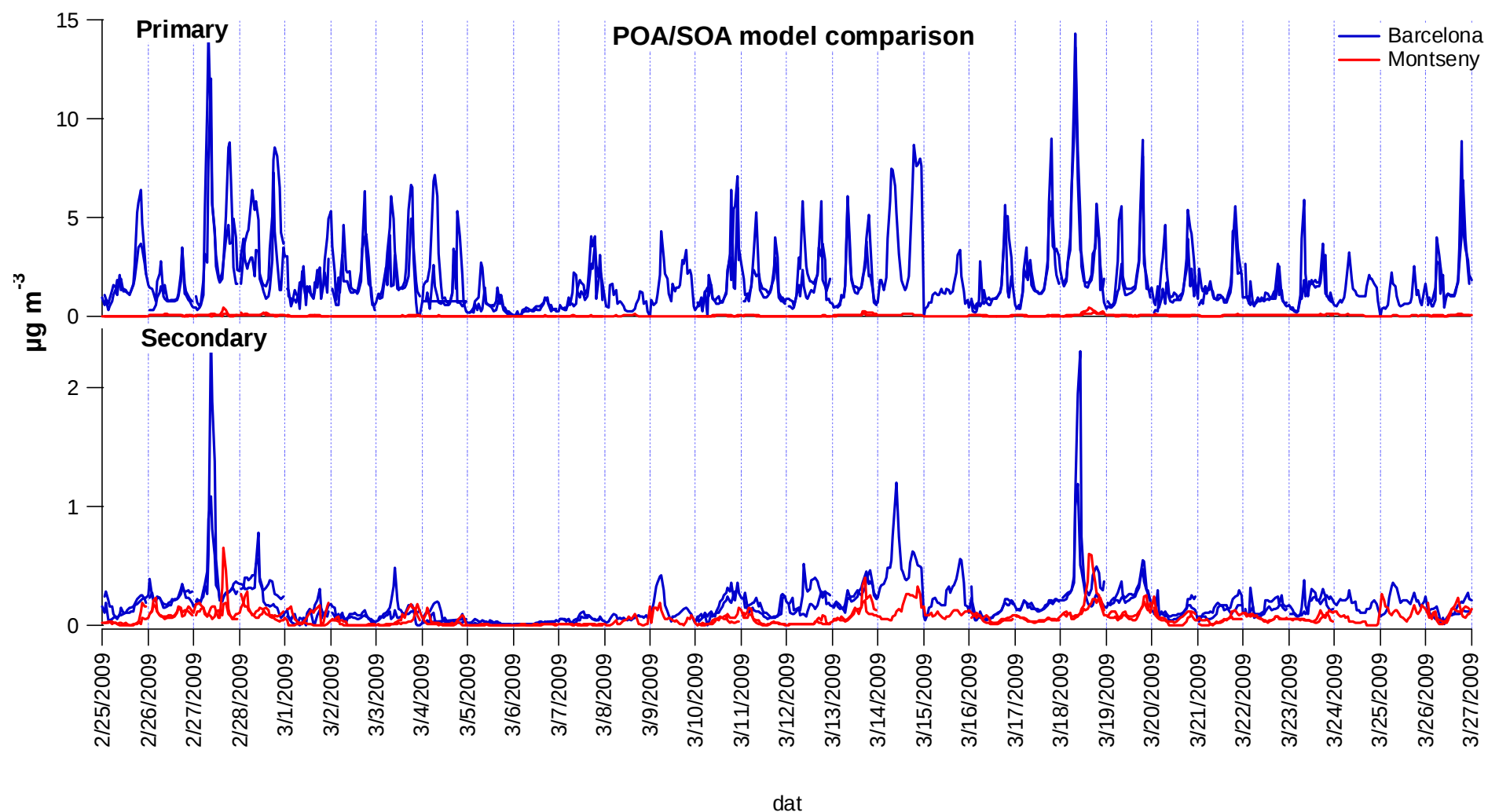
PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

MODEL: Aerosol Barcelona vs Montseny



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

MODEL: Organic Aerosol Sources Barcelona vs Montseny



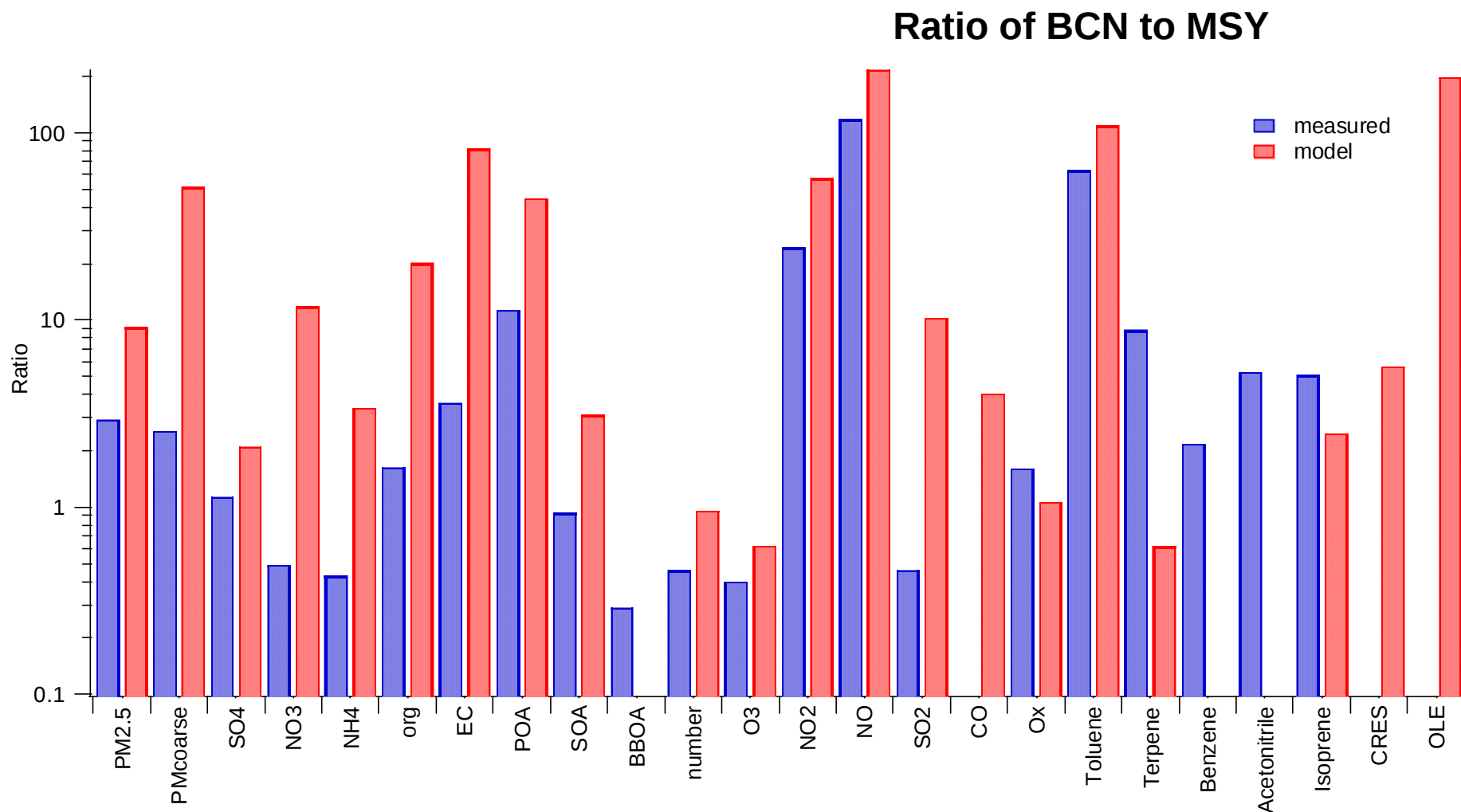
PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

RATIOS OF AVERAGES (BARCELONA divided by MONTSENY) for **DATA** and **MODEL**

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PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE

DATA and MODEL: Ratio of Barcelona to Montseny



PRELIMINARY DATA FROM DAURE PARTICIPANTS – SUBJECT TO UPDATE