

Size distributions AeroCom ExpA

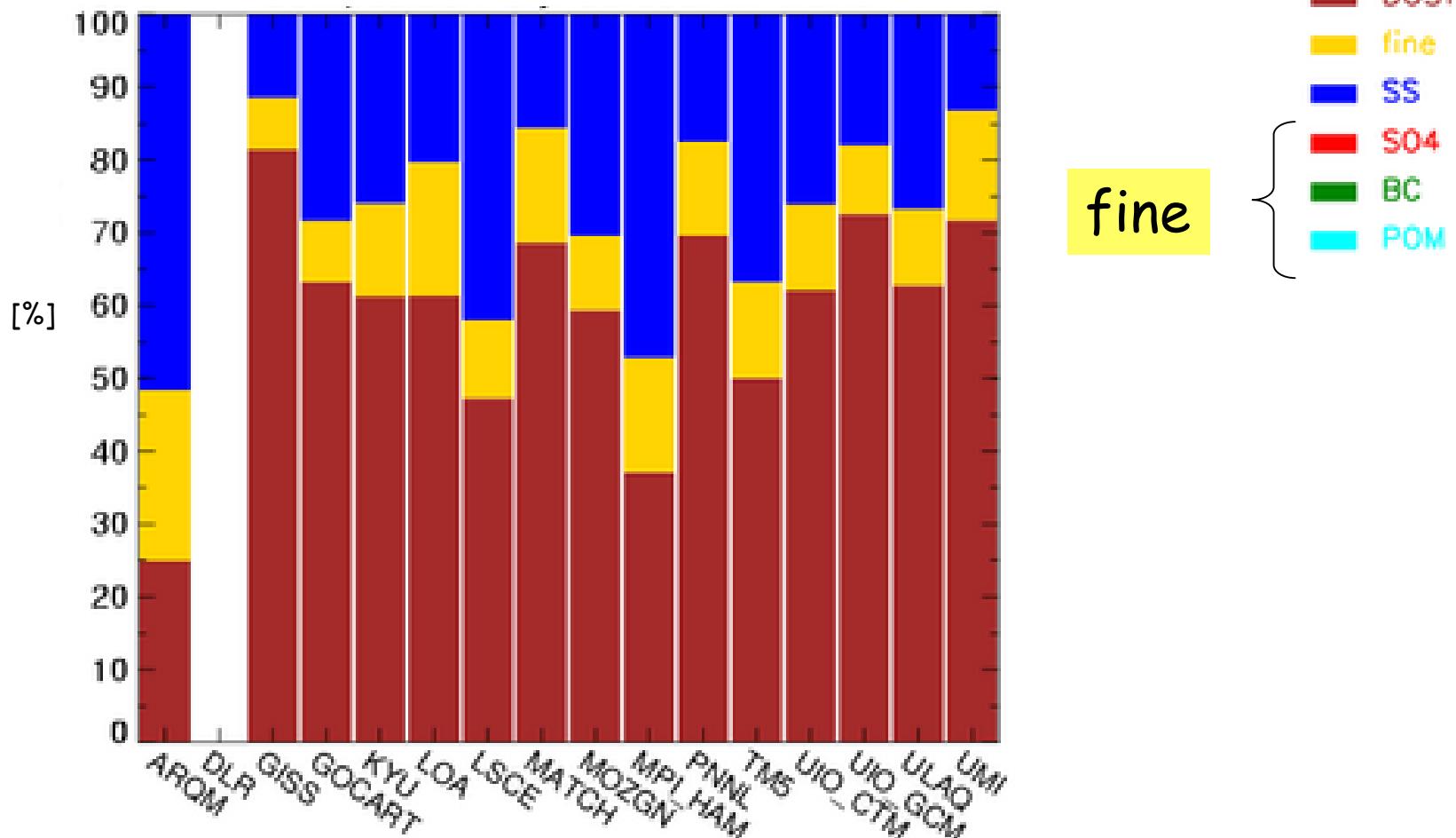
Christiane Textor

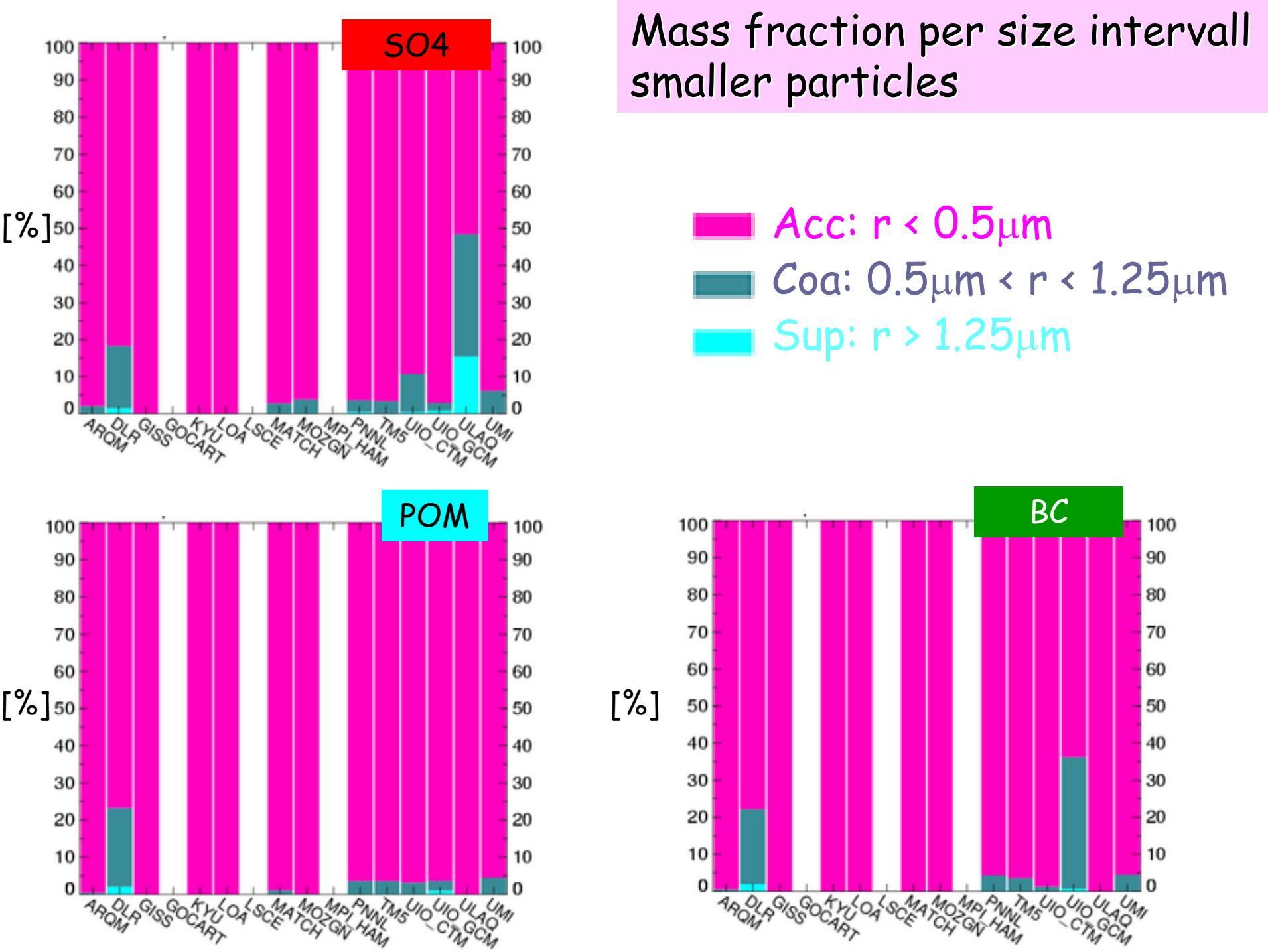
Michael Schulz

Sarah Guibert

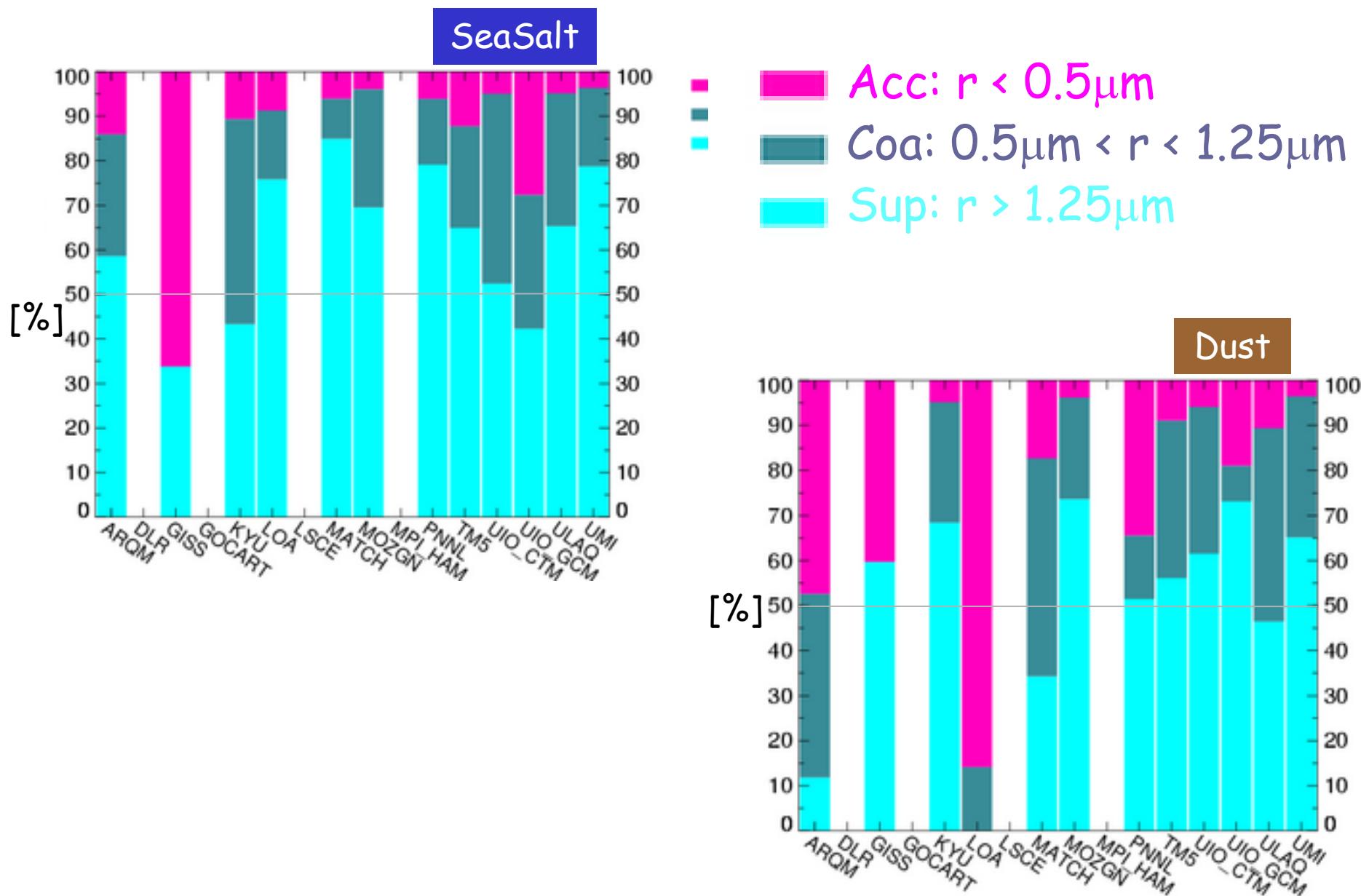
Stefan Kinne

Mass fraction of total aerosol



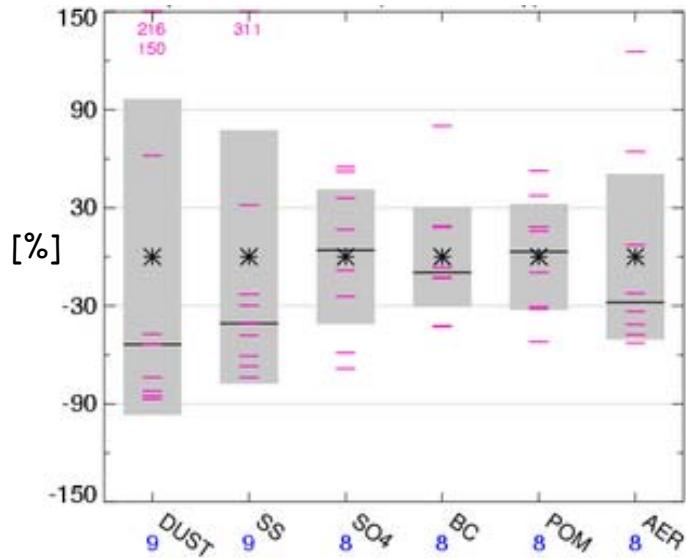


Mass fraction per size intervall larger particles

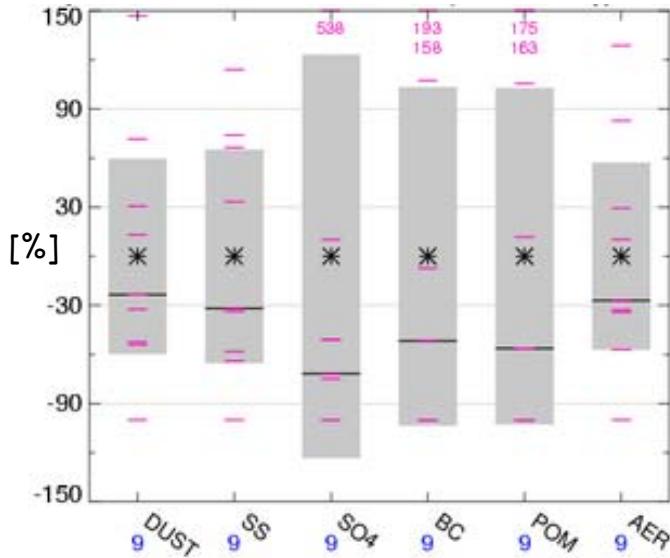


Uncertainty for mass per size intervall

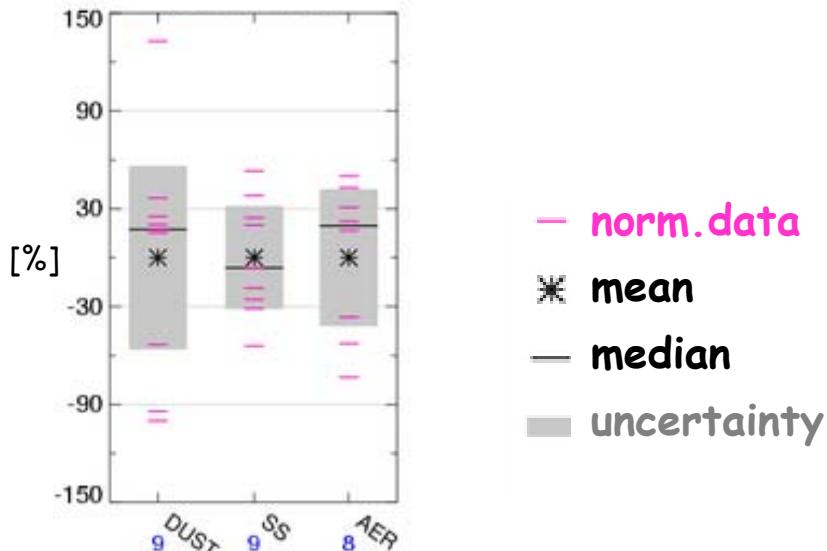
Acc: $r < 0.5\mu\text{m}$



Coa: $0.5\mu\text{m} < r < 1.25\mu\text{m}$



Sup: $r > 1.25\mu\text{m}$

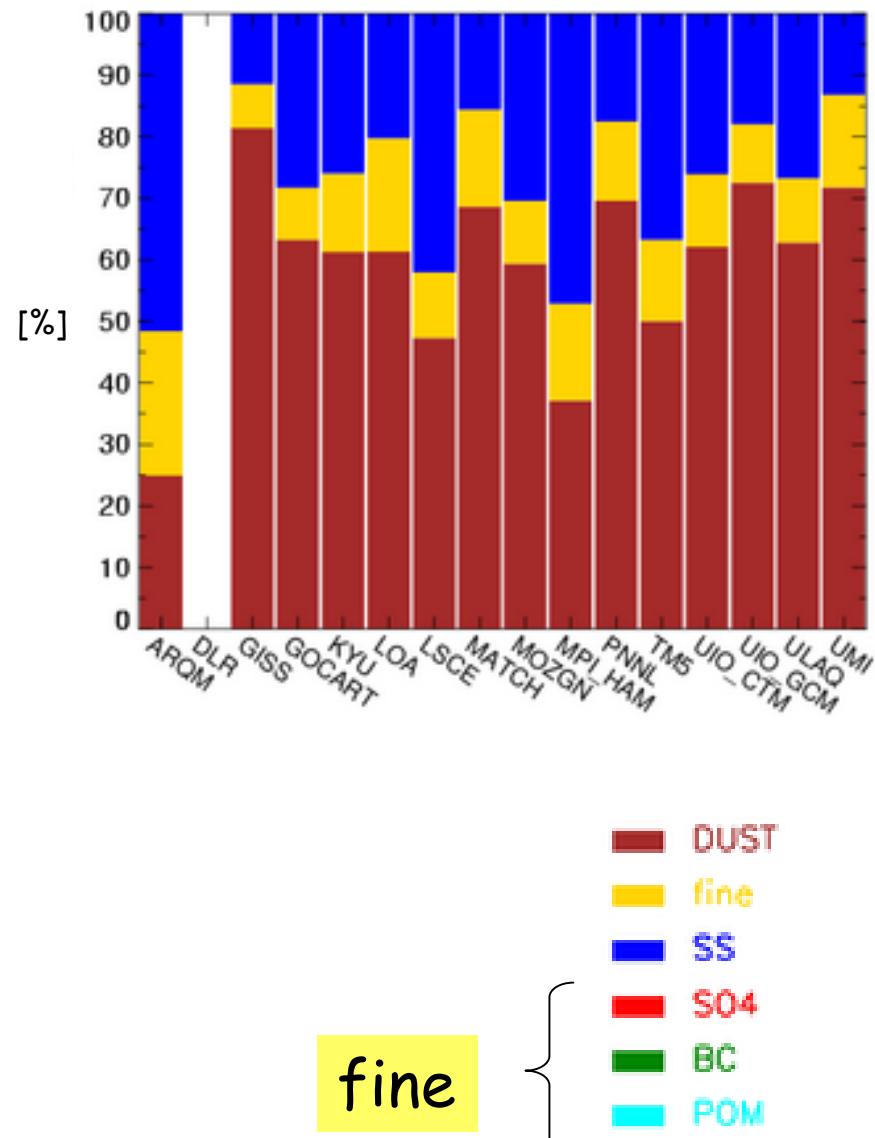


Uncertainty U:
twice the average absolute deviation from the all-models-mean of the normalized data

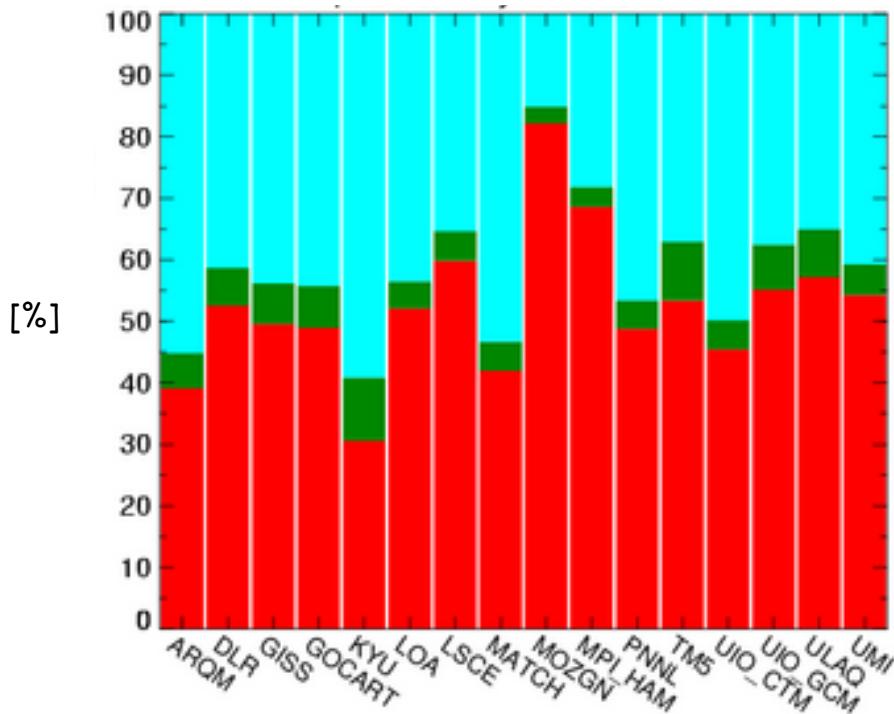
$$U = \frac{2}{N} \sum_{i=1}^N |\text{data}|$$

Fine fraction: SO₄, BC, POM

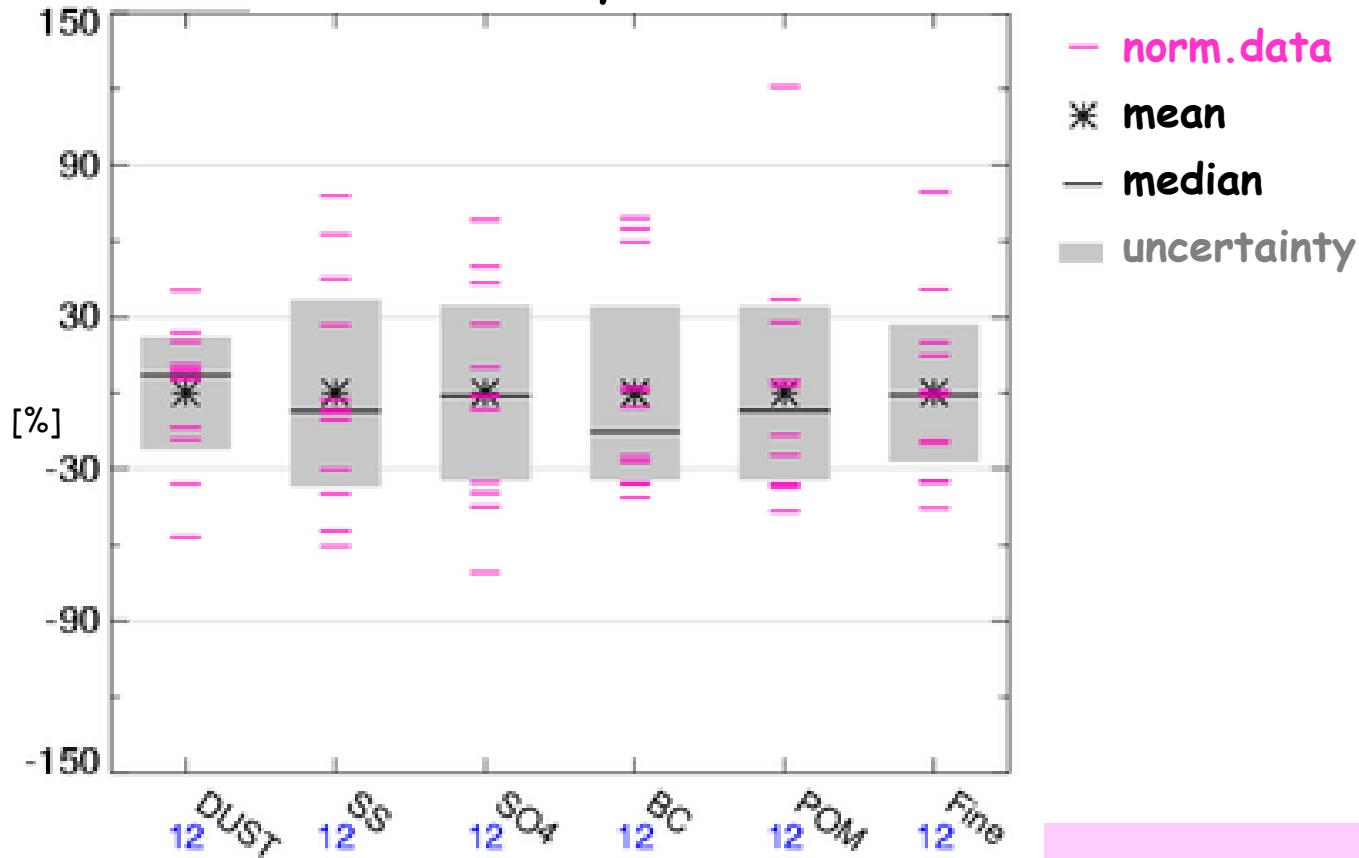
Mass fraction of fine aerosol



Composition of 'fine' aerosol



Uncertainty



Uncertainty U:
twice the average absolute deviation from the all-models-mean of the normalized data

$$U = \frac{2}{N} \sum_{i=1}^N |\text{data}|$$