



*Supplement of*

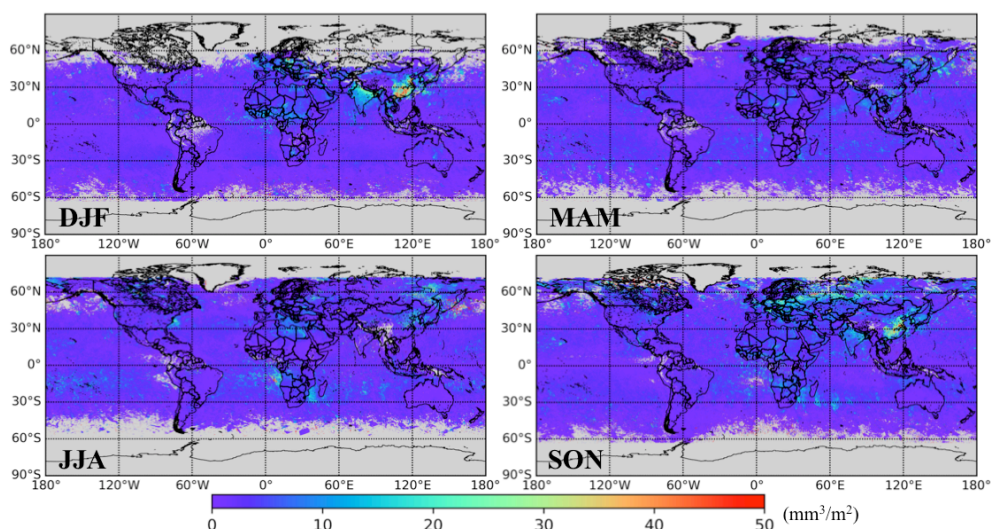
## **Retrieval of aerosol components directly from satellite and ground-based measurements**

**Lei Li et al.**

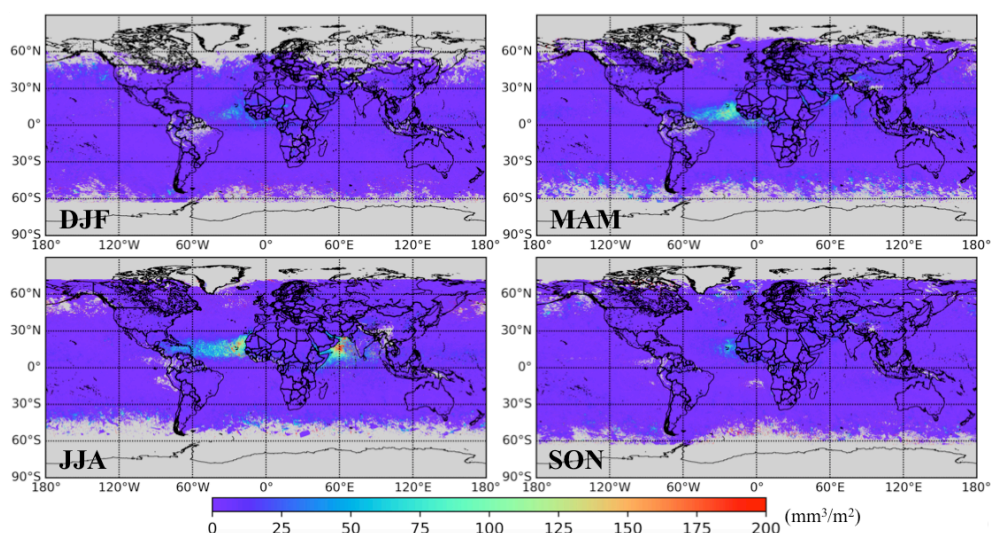
*Correspondence to:* Oleg Dubovik ([oleg.dubovik@univ-lille.fr](mailto:oleg.dubovik@univ-lille.fr)) and Yevgeny Derimian ([yevgeny.derimian@univ-lille.fr](mailto:yevgeny.derimian@univ-lille.fr))

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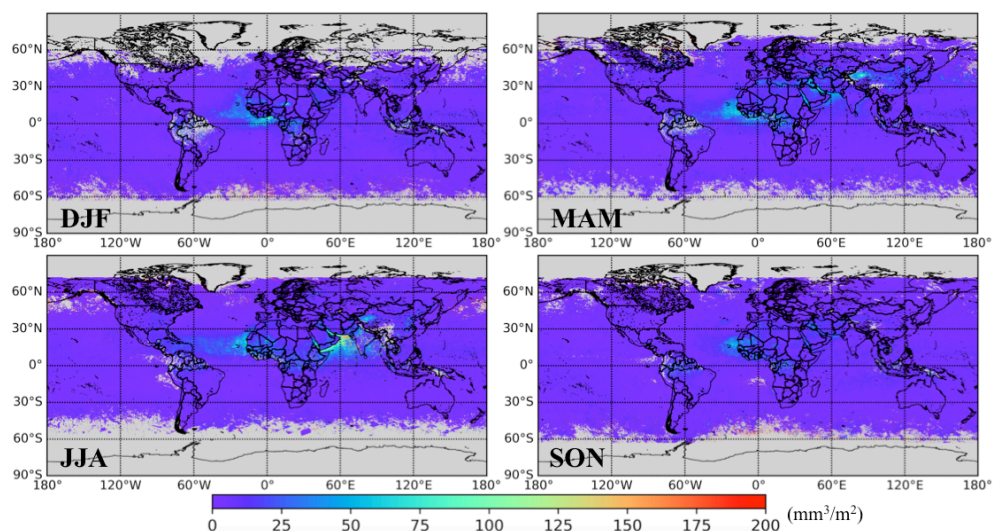
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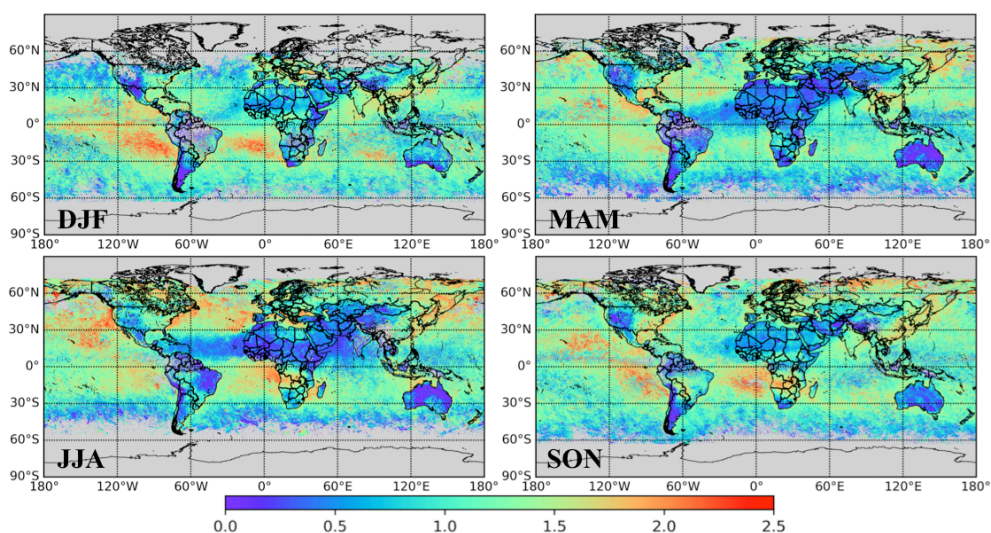
**Figure S1.** Seasonal variability of fine mode aerosol water content (FAWC) volume concentration ( $\text{mm}^3/\text{m}^2$ ) over the globe in 2008 as retrieved by GRASP/Composition algorithm from POLDER/PARASOL satellite observations.



**Figure S2.** Same as Fig. S1, but for coarse mode aerosol water content (CAWC)



**Figure S3.** Same as Fig. S1, but for coarse mode non-absorbing soluble (CNAS)



**Figure S4.** Same as Fig. S1, but for Ångström Exponent