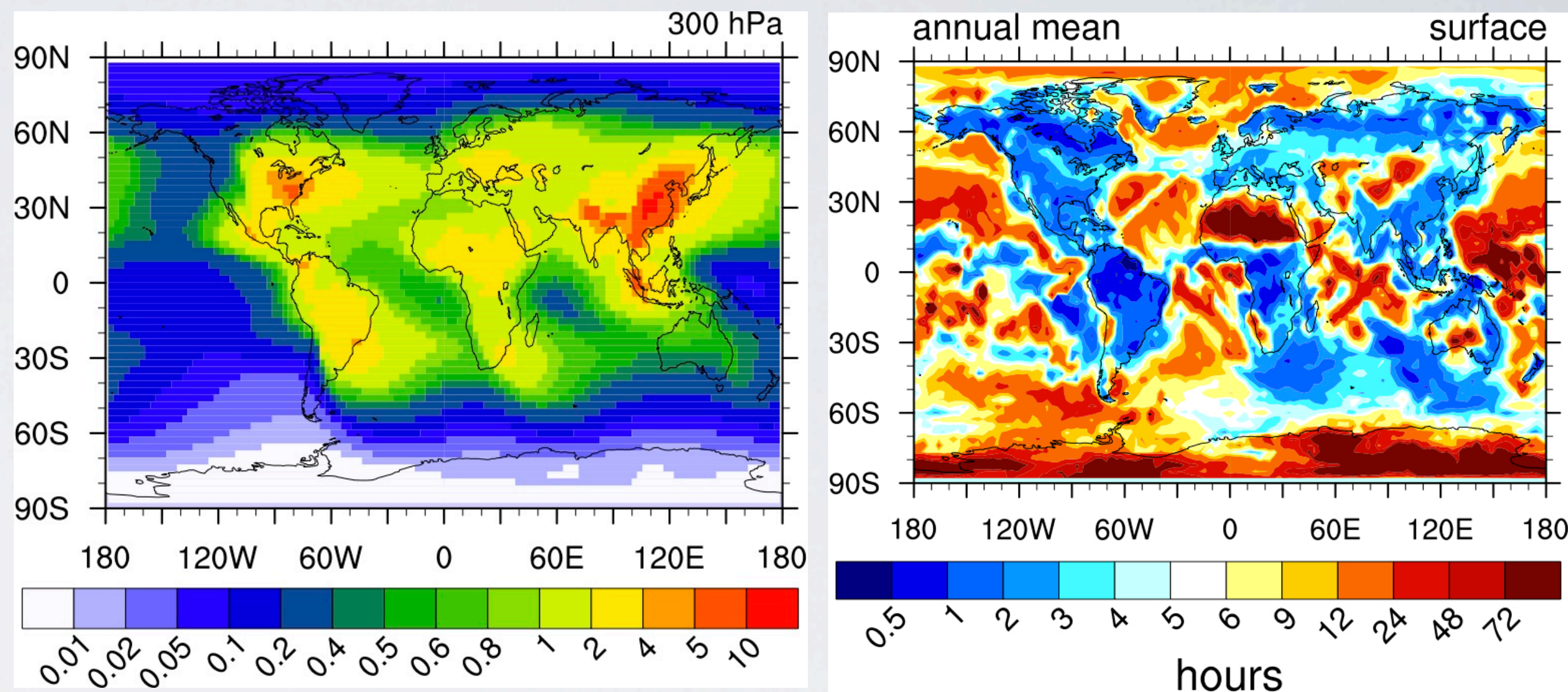


RESOLVING THE MIXING STATE OF ICE NUCLEI WITH EMAC/MADE-IN

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MADE-IN is a new aerosol microphysics sub-model for simulation of aerosol mass and number and of the mixing state of ice nuclei, i.e. BC and dust particles. MADE-IN simulates the ageing of BC and dust by condensation, coagulation and cloud processing.



#/cm³ of ice nuclei

ageing time of BC

MADE-IN is implemented in the global climate model ECHAM/MESSy (EMAC). We show results of EMAC/MADE-IN simulations about the number concentration of ice nuclei and their mixing state, and about the ageing of externally mixed BC particles (ageing time and efficacy of ageing processes).

