

New particle formation in the upper troposphere and its role for climate

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Conclusions

Massive New Particle Formation (NPF) every day in the UT above Amazon

Isoprene is the key precursor

Strong diurnal cycle, >8 km altitude, over large areas

CLOUD: nucleation and growth rates at 50°C w/ and w/o NO_x

CAFE PACIFIC: NPF also in UT over Northern QLD and Papua New Guinea

Strong source for free tropospheric aerosol and CCN

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