GoAmazon2014/5: 1 Jan 2014 to 31 Dec 2015 IOP1: wet season 2014 (1 Feb – 31 Mar), IOP2: dry season 2014 (15 Aug – 15 Oct)



Amazon Basin has strong coupling between terrestrial ecosystem and the hydrologic cycle: The linkages among carbon cycle, aerosol life cycle, and cloud life cycle need to be understood and quantified.







Density of Wind Trajectories

IOP1



IOP2



500 m 11 AM local 13 March 2014





CCN

Rain

CDNC

500 m 11 AM local 13 March 2014



500 m 11 AM local 13 March 2014



Rain

CDNC

CCN



500 m 11 AM local 13 March 2014



Rain

CDNC

CCN

Z

500 m 11 AM local 13 March 2014



Aerosol size distributions in Manaus plume



March 19 and March 21

Analysis prepared by Jiwen Fan and Jennifer Comstock



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A few stories out of students and postdocs from my group...

nature geoscience

Sub-micrometre particulate matter is primarily in liquid form over Amazon rainforest

Rahul A. Zaveri⁸ and Scot T. Martin^{1,9*} Paulo Artaxo⁴, Allan K. Bertram⁵, Antonio O. Manzi³, Luciana V. Rizzo⁶, Rodrigo A. F. Souza⁷ Adam P. Bateman¹, Zhaoheng Gong¹, Pengfei Liu¹, Bruno Sato², Glauber Cirino³, Yue Zhang



Liquid Organic Particulate Matter

Adam Bateman



Yingjun Liu



Yingjun Liu

NO as a modulator of IEPOX-SOA



IOP1, afternoon data (12:00-16:00 local time) Suzane de Sá



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Thanks for listening