



OH and H₂SO₄ observations during the GOAmazon field campaign

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The first ever field observation of OH and H₂SO₄ using a chemical ionization mass spectrometer was conducted during GOAmazon field campaign both IOP 1 and IOP 2 at the DOE T-3 site in Manacapuru, Amazonas Brazil. The CIMS OH observations will be presented to address a controversy about unaccounted high level of observed OH in high isoprene-low NO environments specifically reported by the LIF technique. In addition, H₂SO₄ observations will be presented in the perspectives of 1) whether low H₂SO₄ is a critical reason for the lack of new particle formation in the region and 2) the relative importance of newly highlighted the stabilized Criegee radical channel for H₂SO₄ production. Comparisons between wet and dry seasons will be presented along with contrasts between clean and transported local pollution episodes. We expect that collaborative data analysis efforts can be initiated through extensive discussion during the science conference.