

Interactive comment on “New insights in the global cycle of acetonitrile: release from the ocean and dry deposition in the tropical savanna of Venezuela” by E. Sanhueza et al.

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The authors present an interesting averaged daily cycle of acetonitrile data measured in the savannah of Venezuela. It is a pity that not the whole time series is shown to get an own impression on the drawn conclusions. It seems there is a lack of accompanying meteorological measurements. Why they don't present instead other data of VOCs measured with the PTR-MS. Especially the hypothesis of dry deposition of acetonitrile during the night could be compared with the behaviour of other compounds like acetone, methanol or for example acetaldehyde. I think these data exist. There is no special reason given why especially acetonitrile should be deposited. From the whole time series of acetonitrile data may be some events of mixing of acetonitrile from the

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free troposphere can be invented. This might happen by strong winds above the stable boundary layer which I think often build up during the night in such regions like the savannah. After midnight often a turbulent mixing is activated from above and than an increase in the acetonitrile concentration cold be observed like it is known for other depositing gases like ozone. Regarding the speculation on the acetonitrile release from the ocean it would be interesting whether some other marker for oceanic air like for example DMS were measured. Otherwise may be long range transport may lead to enhanced acetonitrile concentrations in the free troposphere and can be entrained into the boundary layer during the day like it is mentioned by one referee. I admit that more data are needed to evaluate the acetonitrile budget.

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