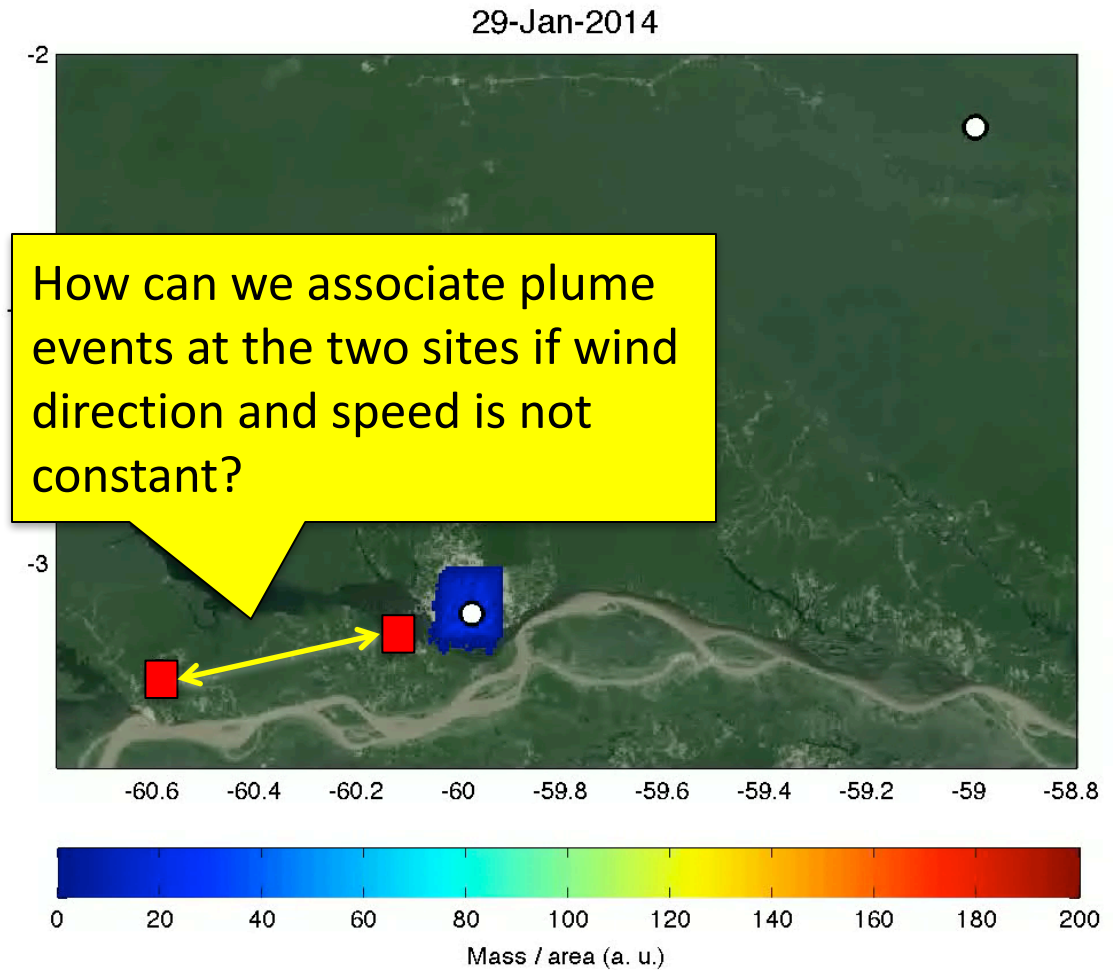


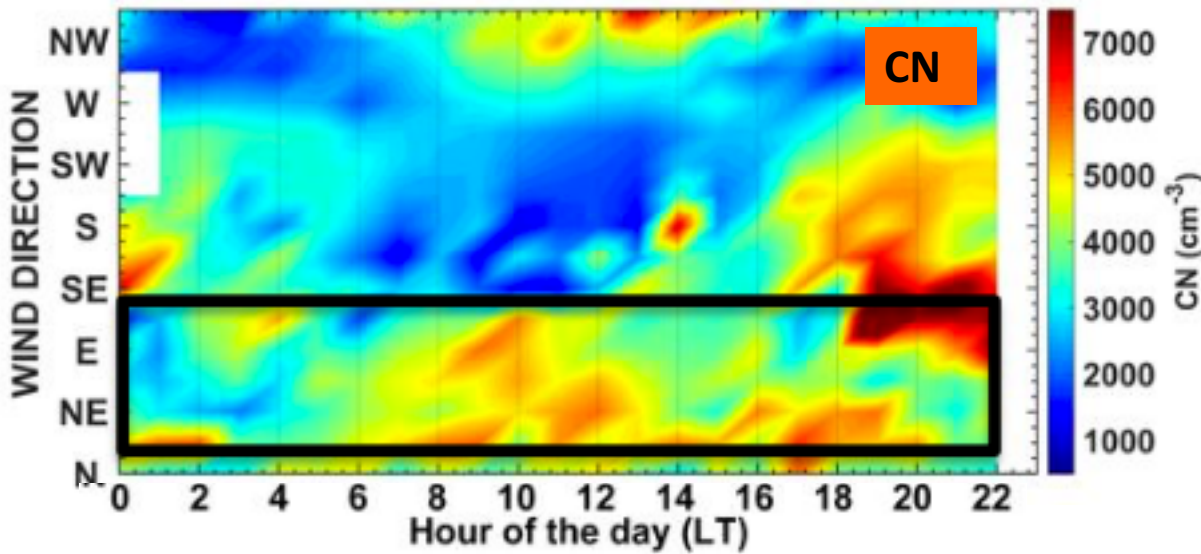


Henrique Barbosa
for GoAmazon Team
University of Sao Paulo

WRF @ USP, Grid d04, Resol. 0.7 km
flexpart/continuous/fwd/d04/



- 1) How do anthropogenic emissions change natural aerosol population?
- 2) How do aerosol properties change with the ageing of the Manaus' pollution plume?

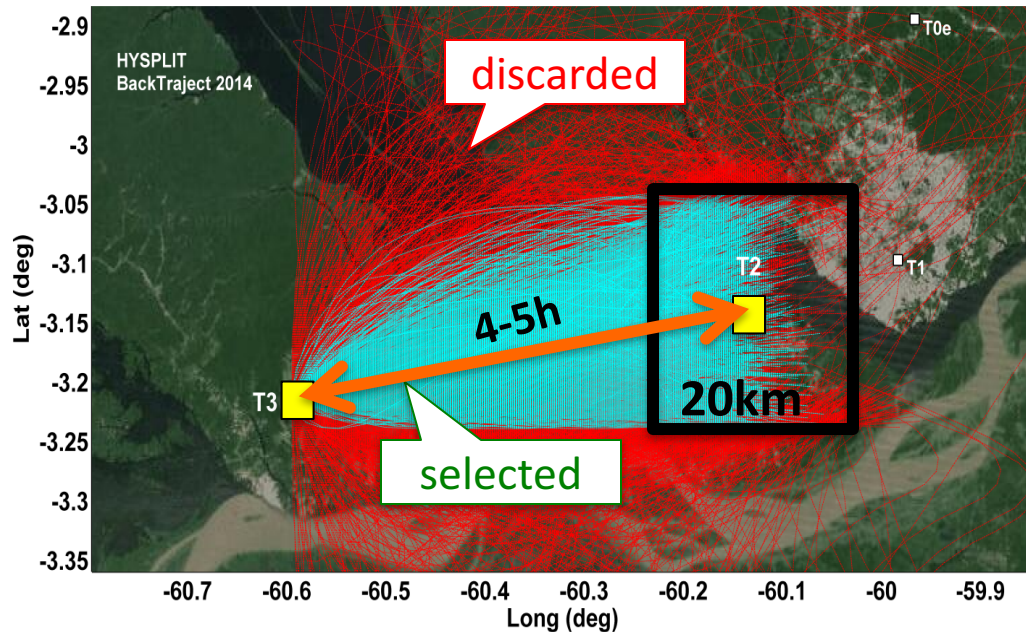


Tracers:
 CN, SO₂, SO₄, CO, BC,
 f60, etc...

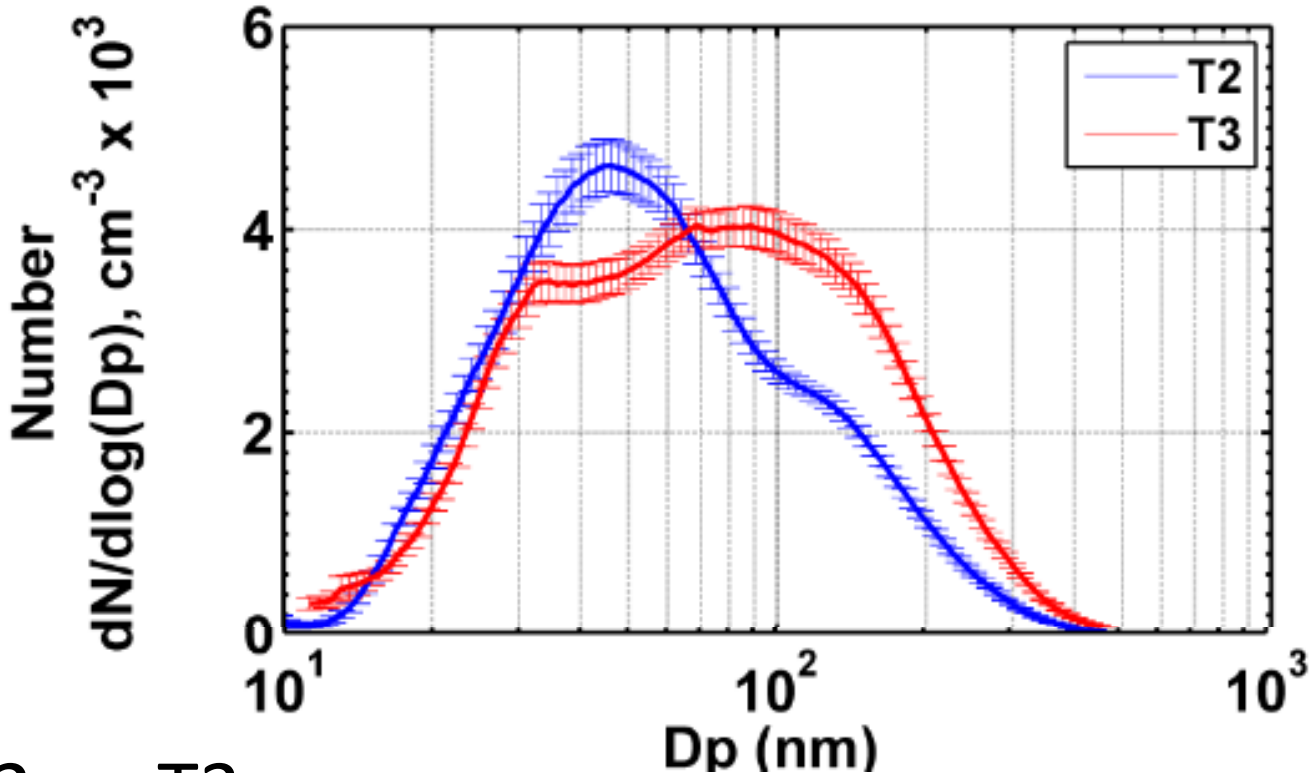
Hysplit

1) GDAS 0.5°, Back/For,
 14days, 100m above all sites,
 every 30min in 2014

2) Only Back T3 every 12min
 2014/5 (radar precip)



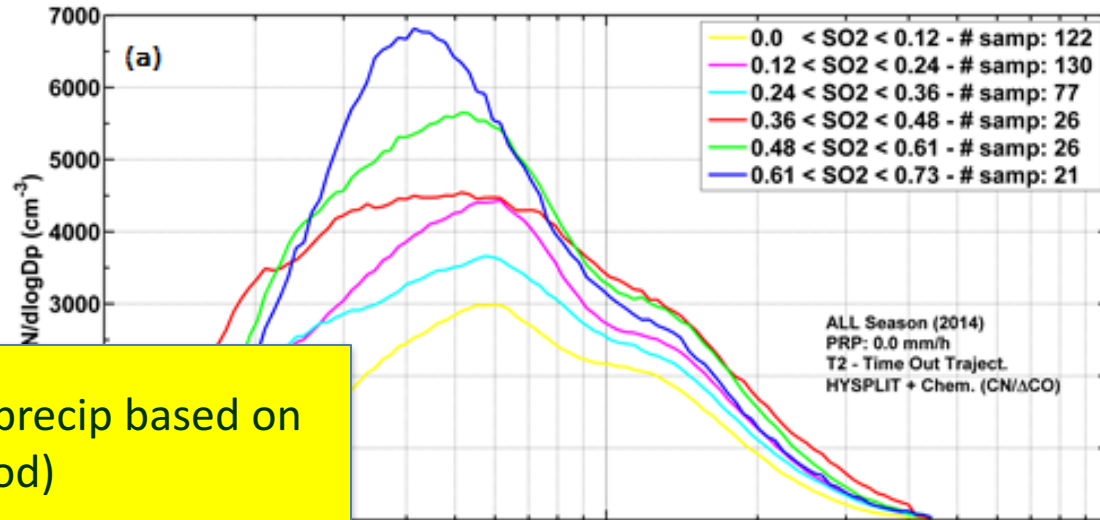
How different is Size distribution? T3(t) and T2(t- Δt)



- $T_2 \Rightarrow T_3$

Particle growth, mode at 50nm \Rightarrow 100nm

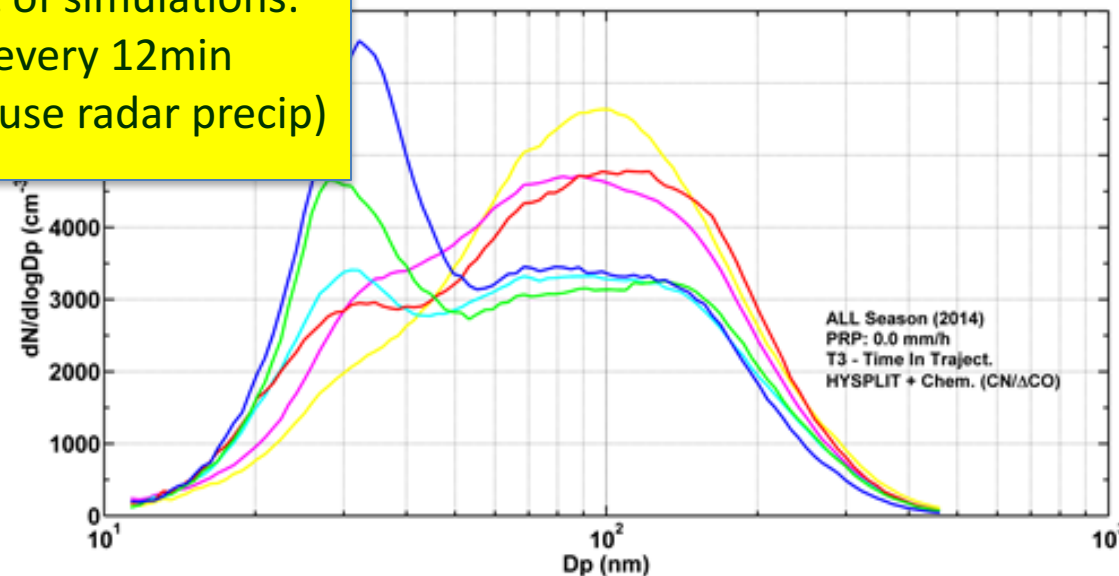
Size distribution, T3(t) and T2(t- Δt)



T2 x SO₂ at T2

We removed precip based on GDAS (not good)










2nd Hysplit set of simulations:
Only Back T3 every 12min
2014 and 15 (use radar precip)



T3 x SO₂ at T2

http://lfa.if.usp.br

Index of /ftp/public/LFA_Processed_Data

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
 Parent Directory			
 GoAmazon USP Data processing.pdf	2015-09-02 17:55	594K	
 T0a ATTO/	2015-02-25 18:46	-	
 T0e EMBRAPA/	2014-11-18 13:11	-	
 T0z ZF2 TT34 K34/			
 T2 Tiwa/			
 T3 Manacapuru/	2015-06-29 20:51	-	
 ZF2 2016/	2017-01-25 09:24	-	
 hysplit/	2017-03-01 00:10	-	

Levels 1, 2 and 3: QC, corrections, etc..

T2 Aerosol Data
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Hysplit Trajectories
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