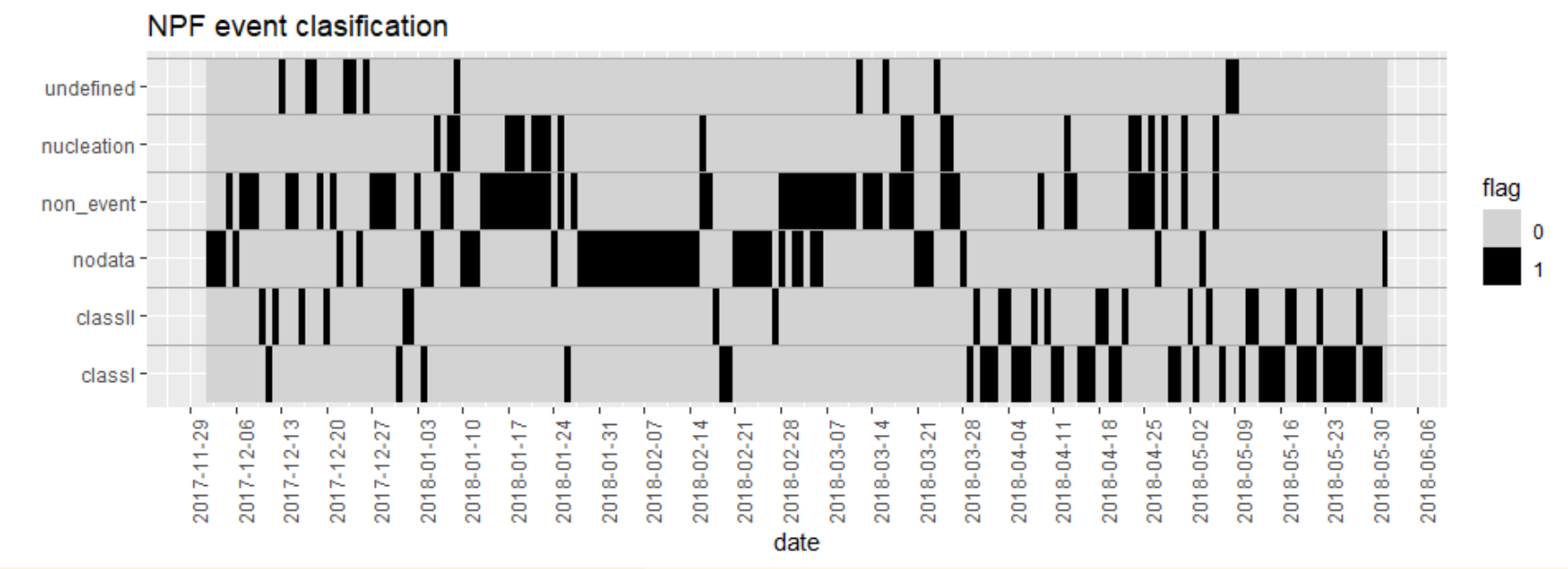
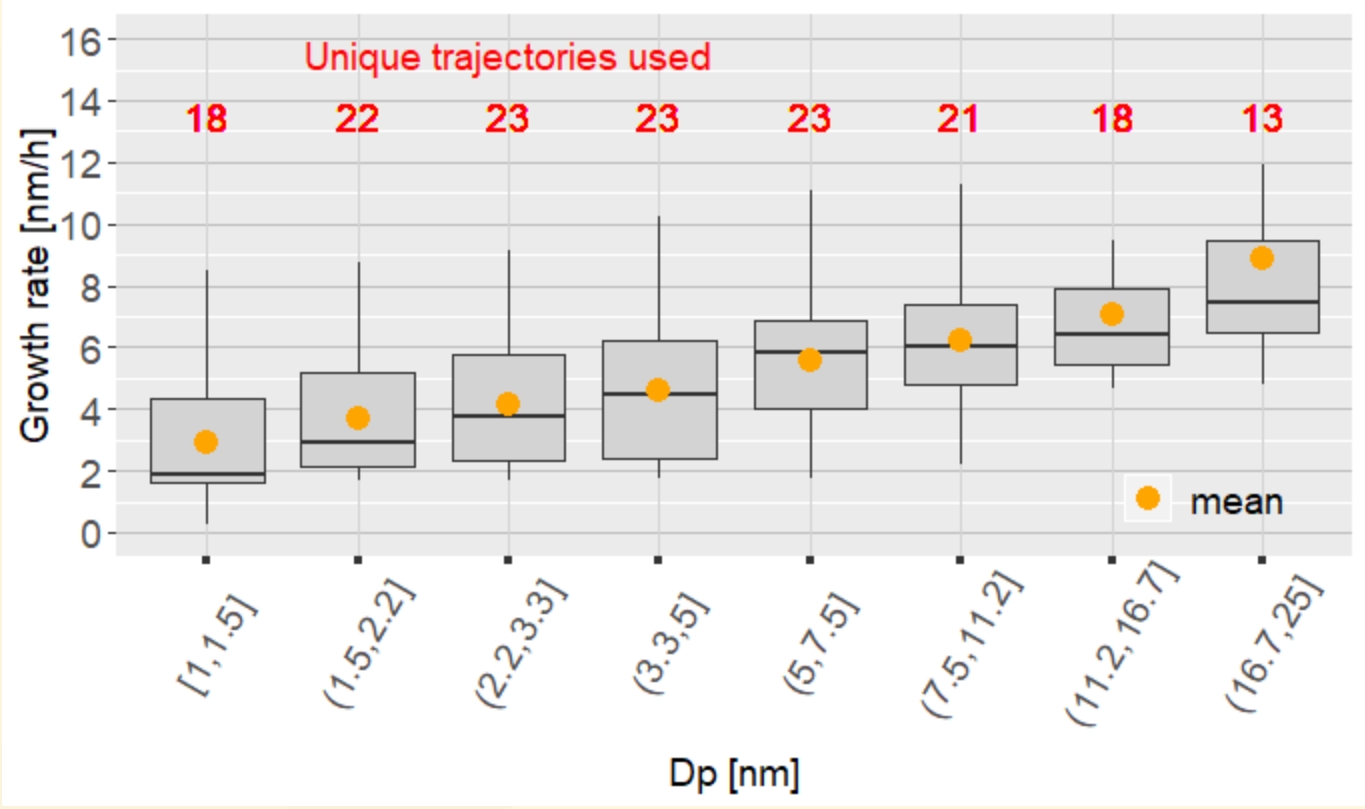
Growth Rates at CHC

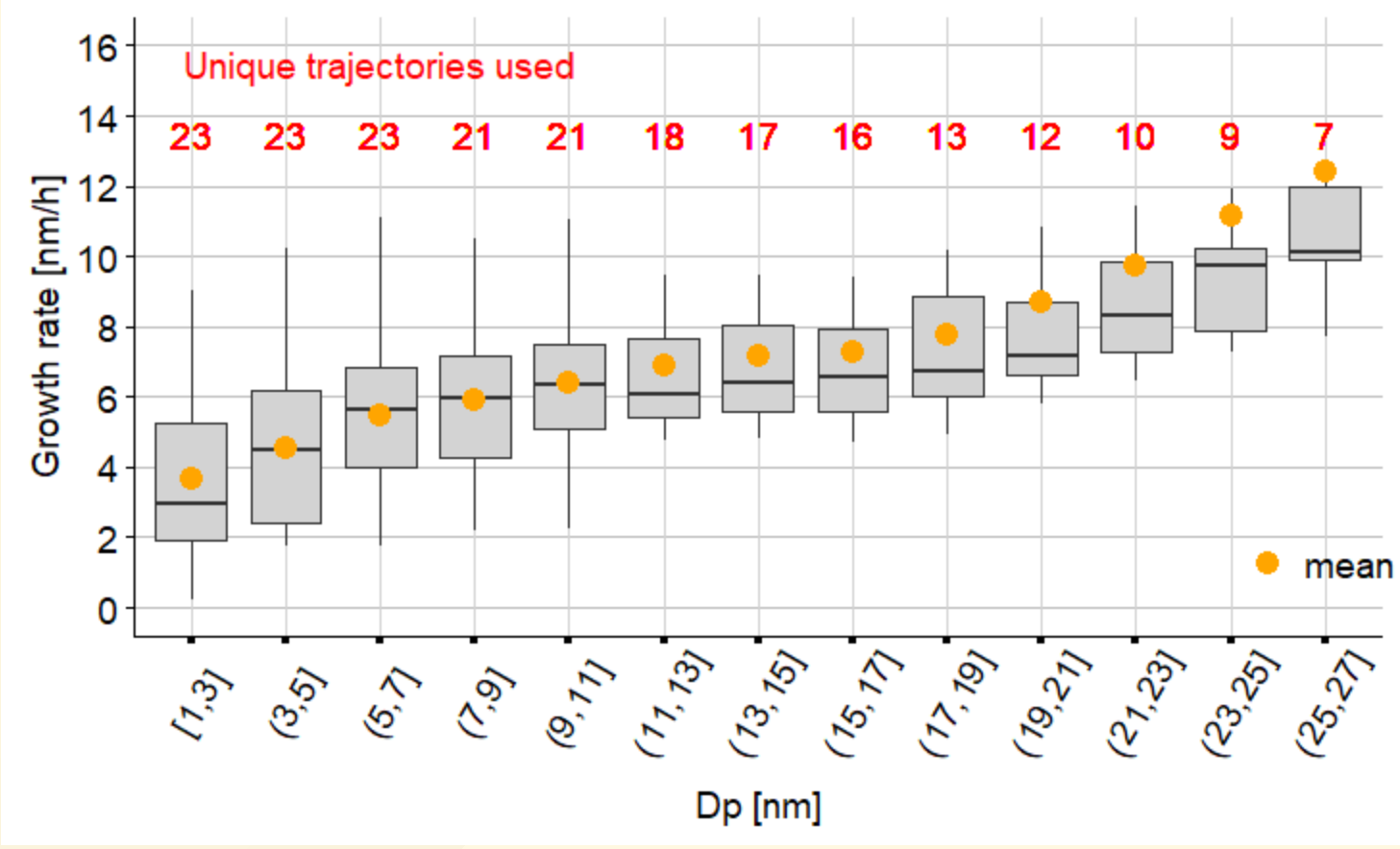
- Alkuin Koenig (Max)
- Diego Aliaga
  - data, results and further information at: https://github.com/daliagachc/GR_chc/

NPF event clasification

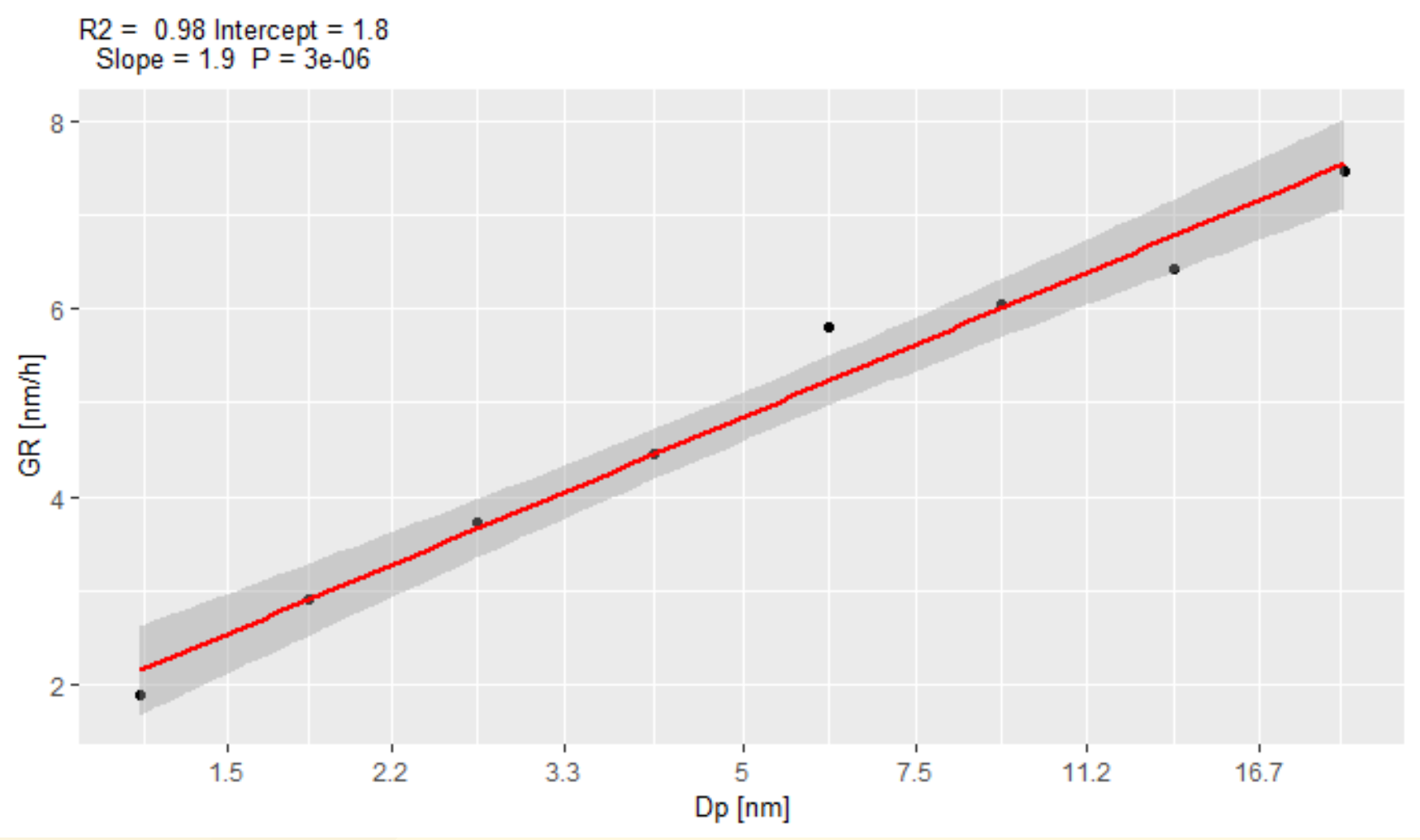


based on Maso, M. D. et al. Formation and growth of fresh atmospheric aerosols: eight years of aerosol size distribution data from SMEAR II, Hyytiala, Finland. 10, 15

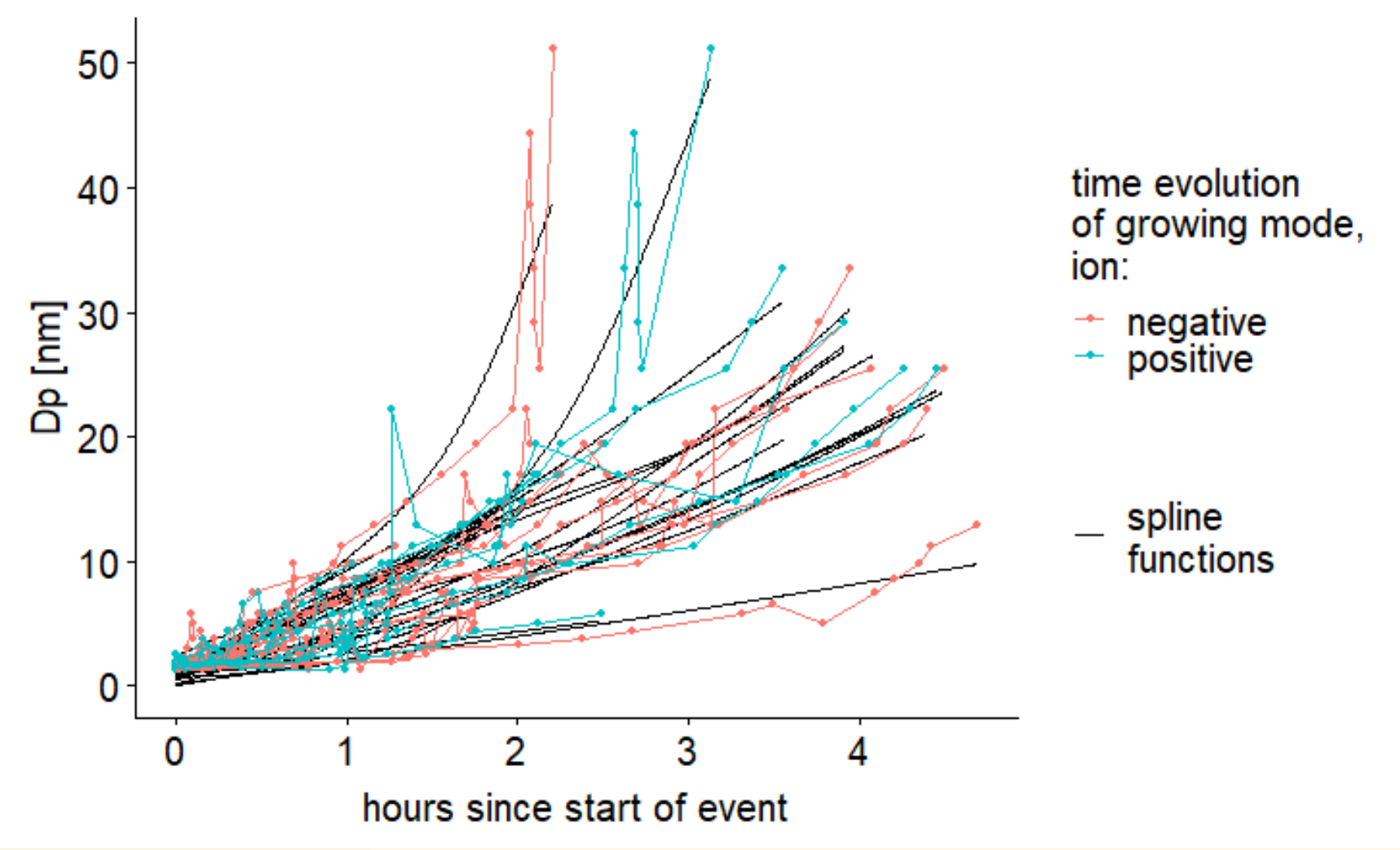

Unique trajectories used
18
22
23
23
23
21
18
13
Growth rate [nm/h]
0
2
4
6
8
10
12
14
16
mean
[1,1.5]
(1.5,2.2]
(2.2,3.3]
(3.3,5]
(5,7.5]
(7.5,11.2]
(11.2,16.7]
(16.7,25]
Dp [nm]



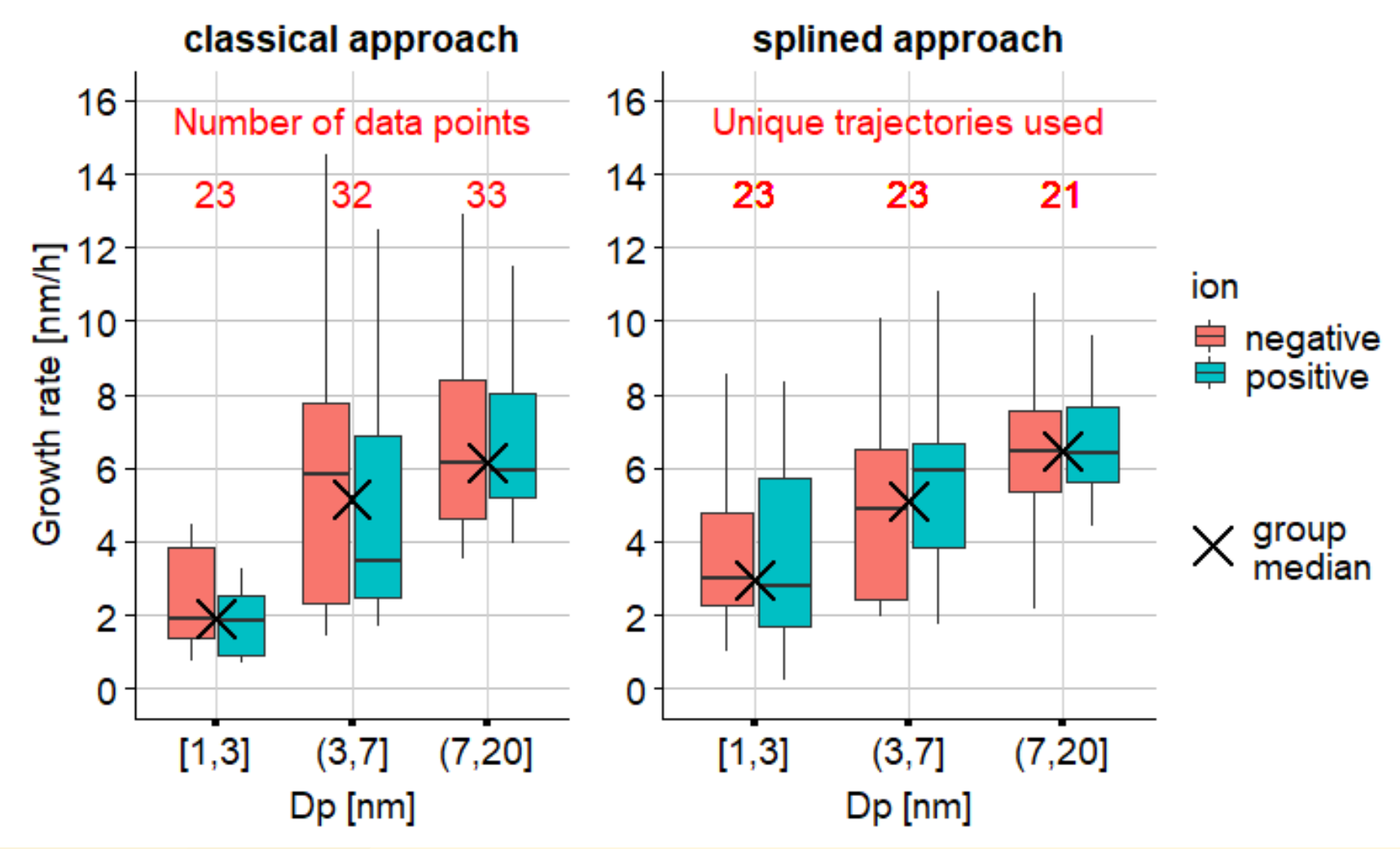
https://github.com/daliagachc/GR_chc/blob/master/Rproject/results/files/GR_CHC_splined_approach_all_events.csv



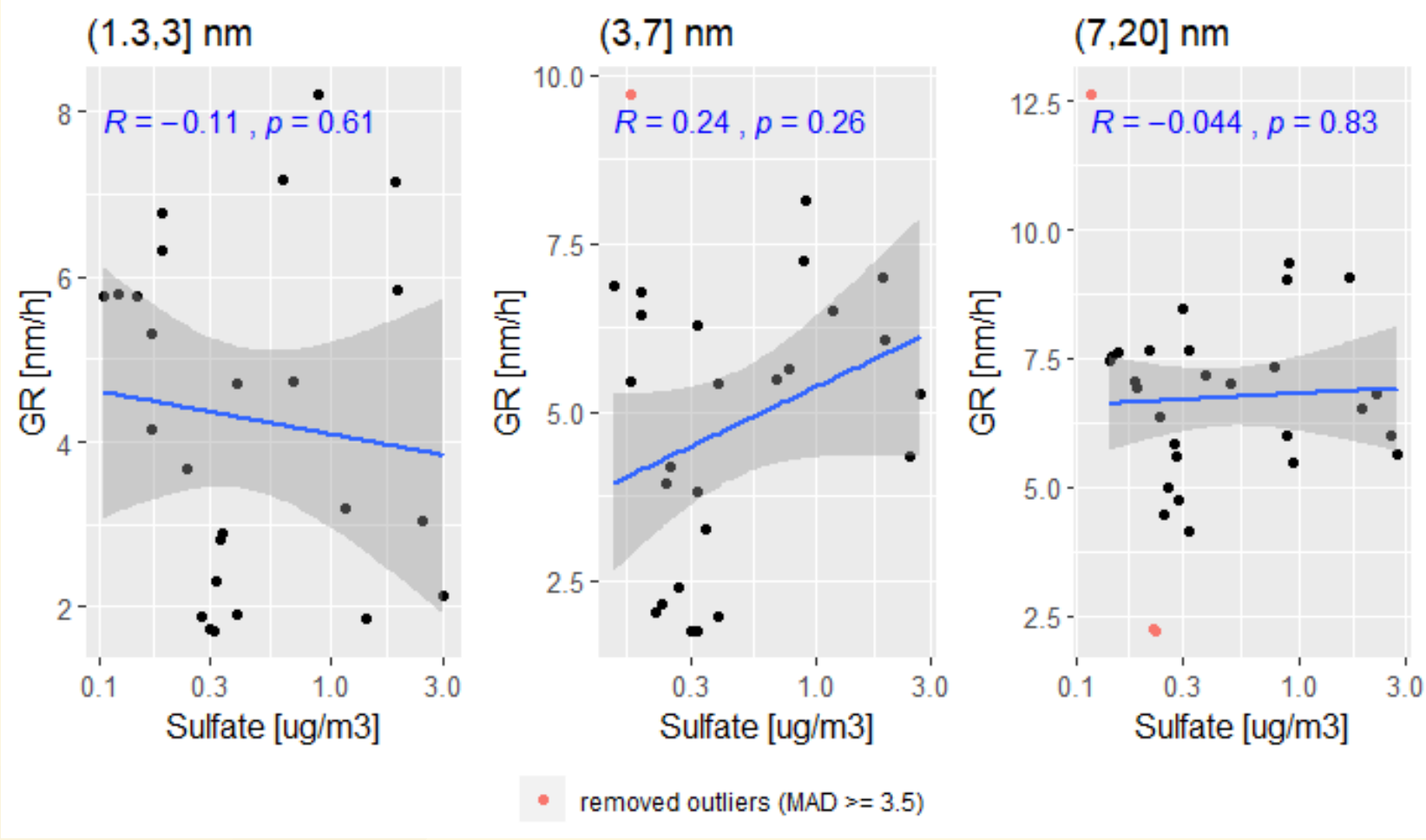
Linear correlation bewteen GR and D_p [nm]



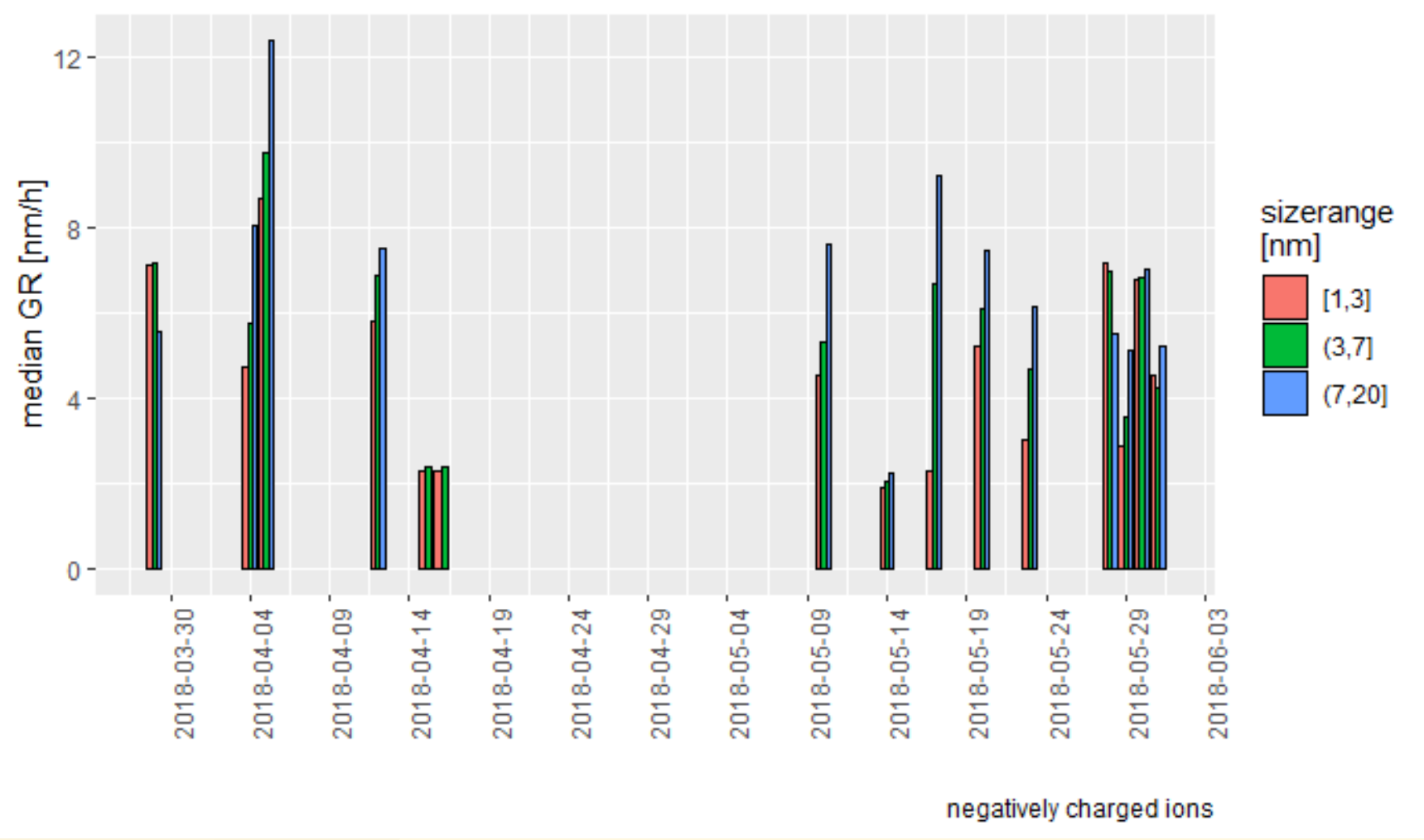
- methodology used to derive the growth rate using splines



- comparison between the classical approach and the splined approach



- no correlation with sulfates



- GR values for event days divided in bin sizes 1-3, 3-7, 7-20 nm