



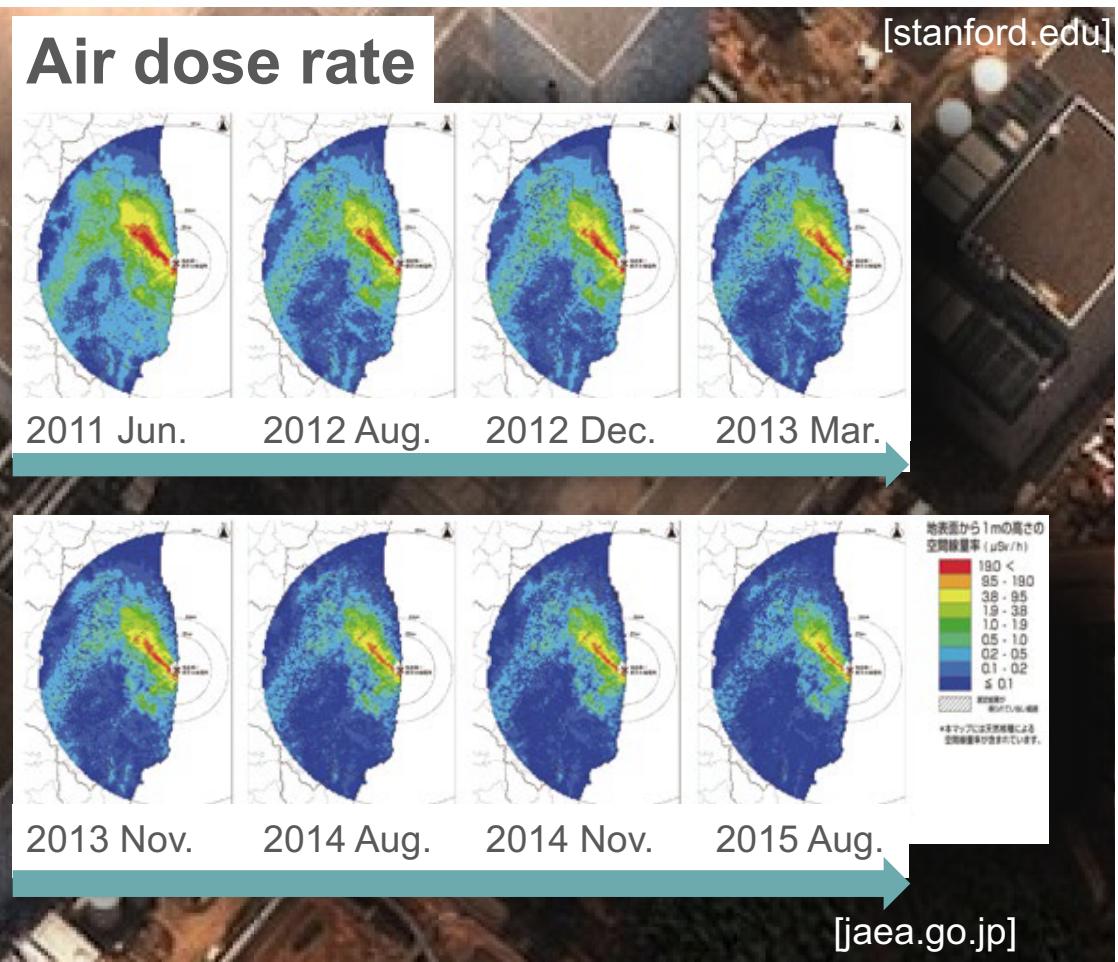
Bivariate Data Analysis with TTK

Daisuke Sakurai, Zuse Institute Berlin

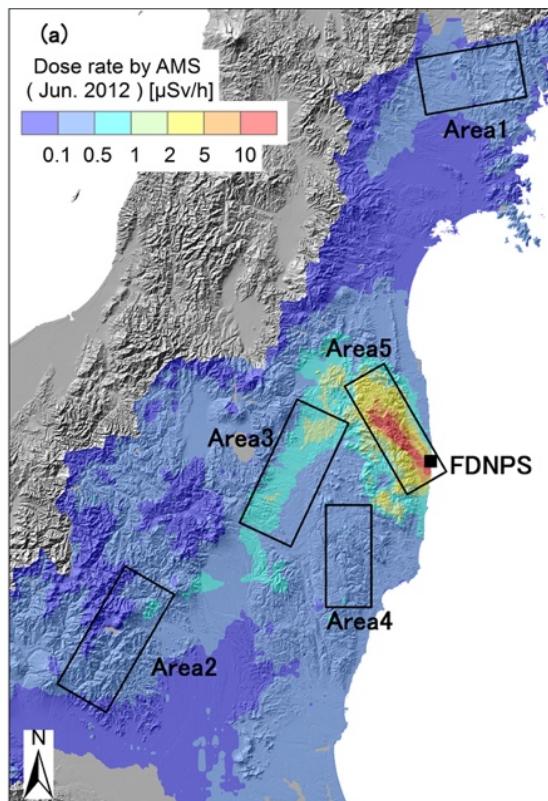
Fukushima Under Control



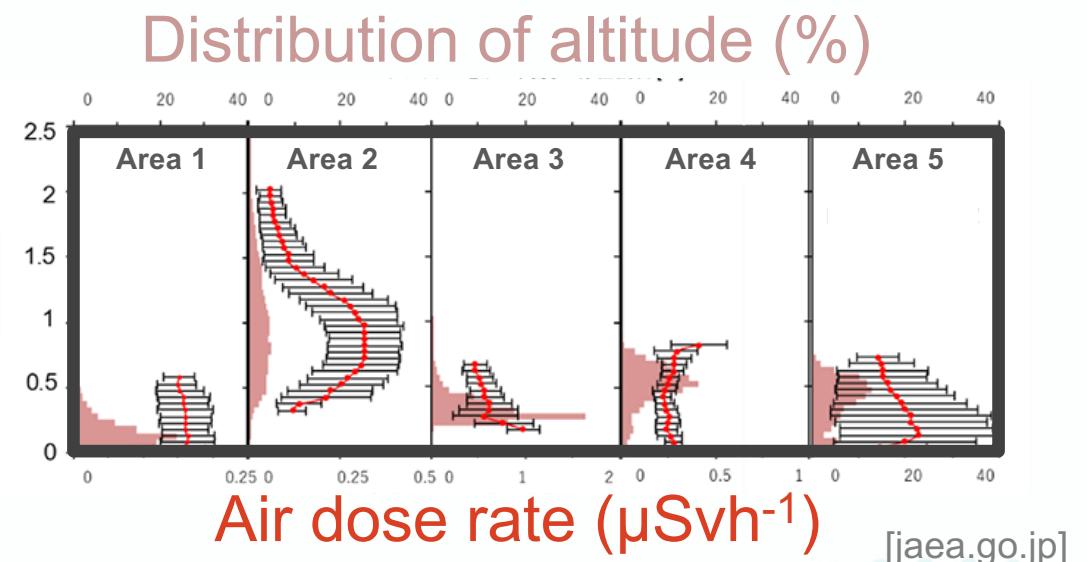
[Topics Fukushima, 2013.5.24]



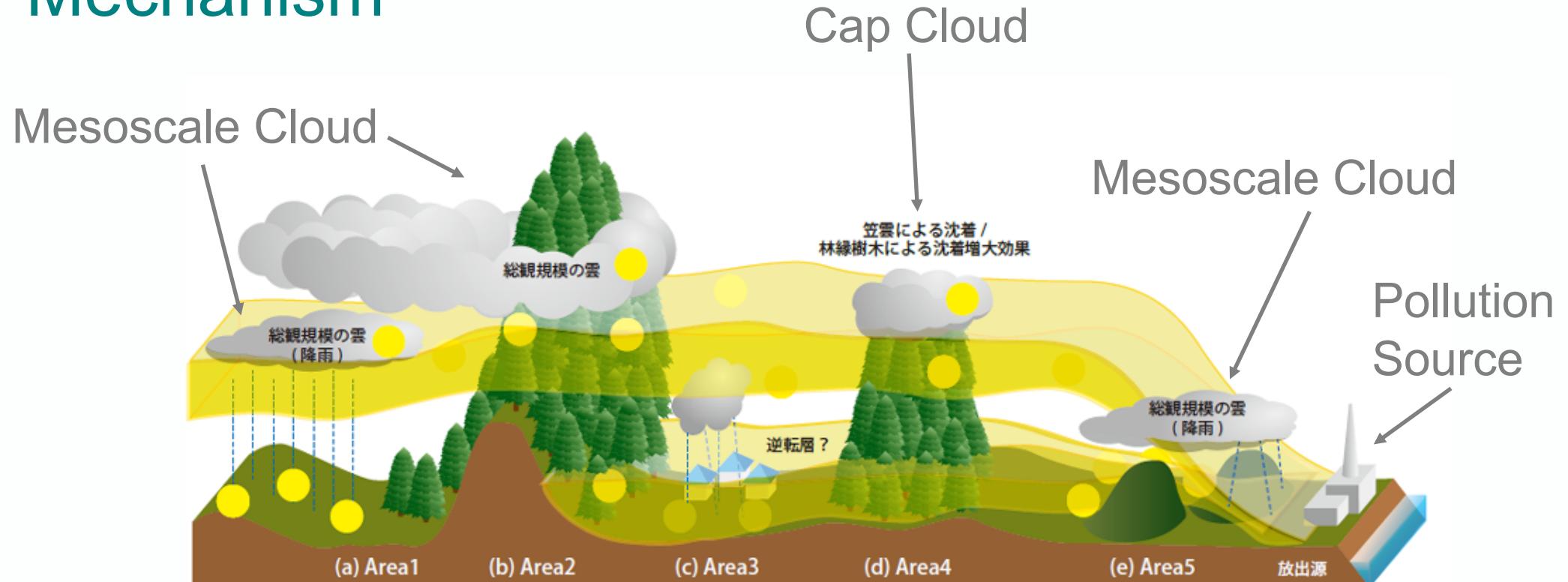
Weird Concentration of Pollution



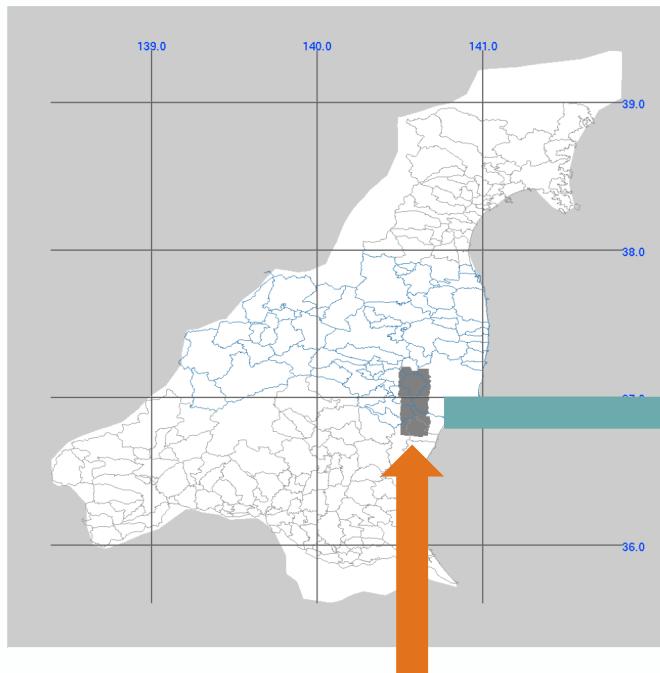
[Sanada et al. 2018]



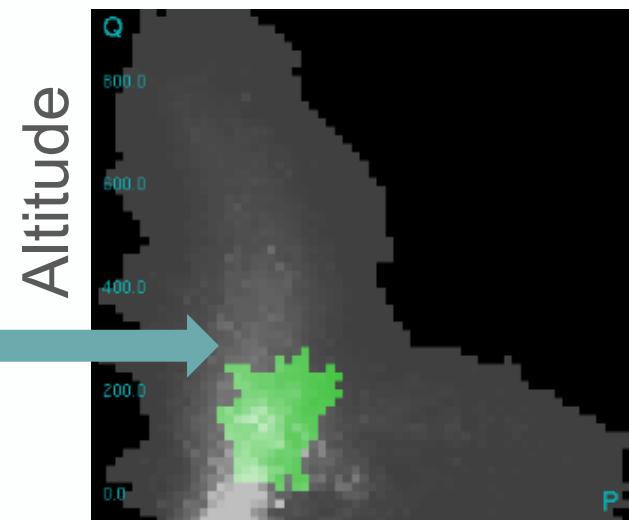
Mechanism



Verify Correlation Hypothesis



Plot
Data Values

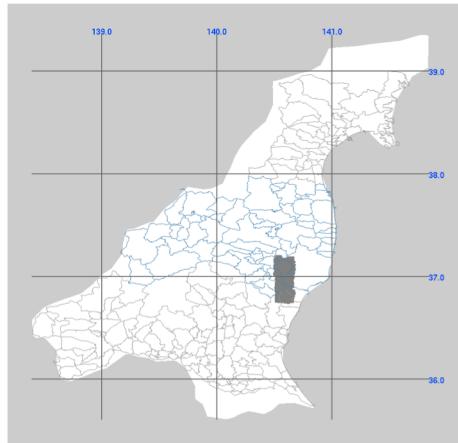


Air Dose Rate

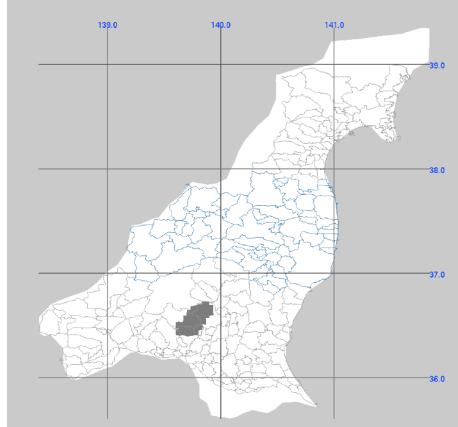
"Area 4"
Dose Known To Be Dry

Types of Air Dose

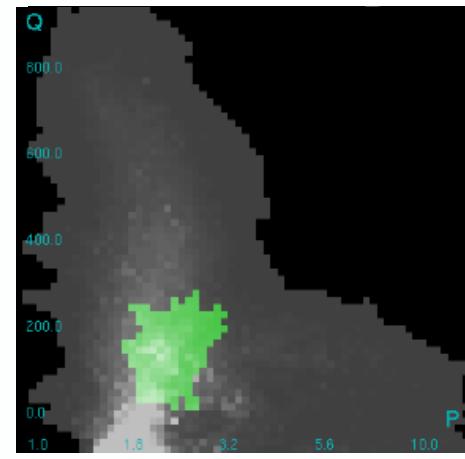
"Area 4": Dry



"Area 2": Wet



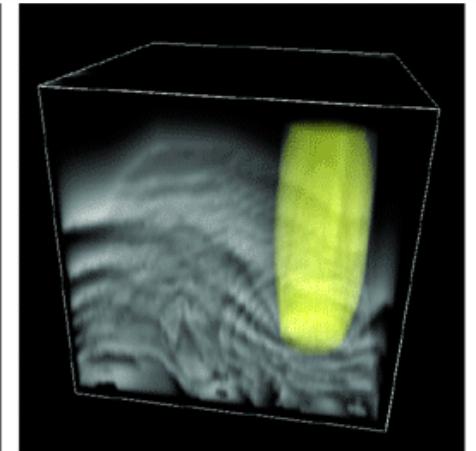
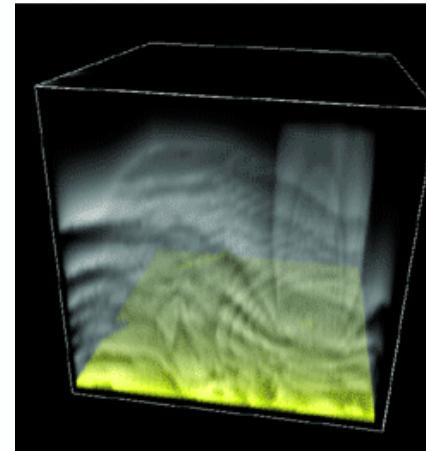
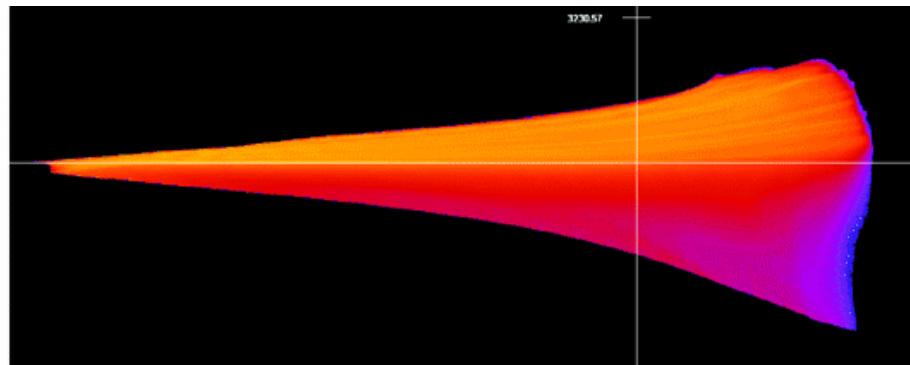
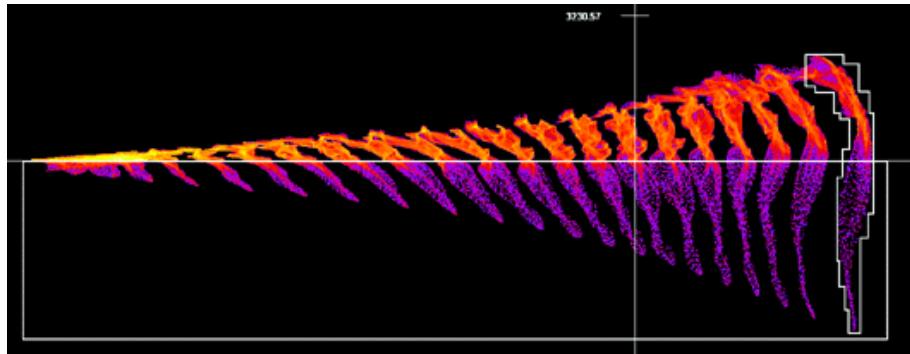
Air Dose Rate



Altitude

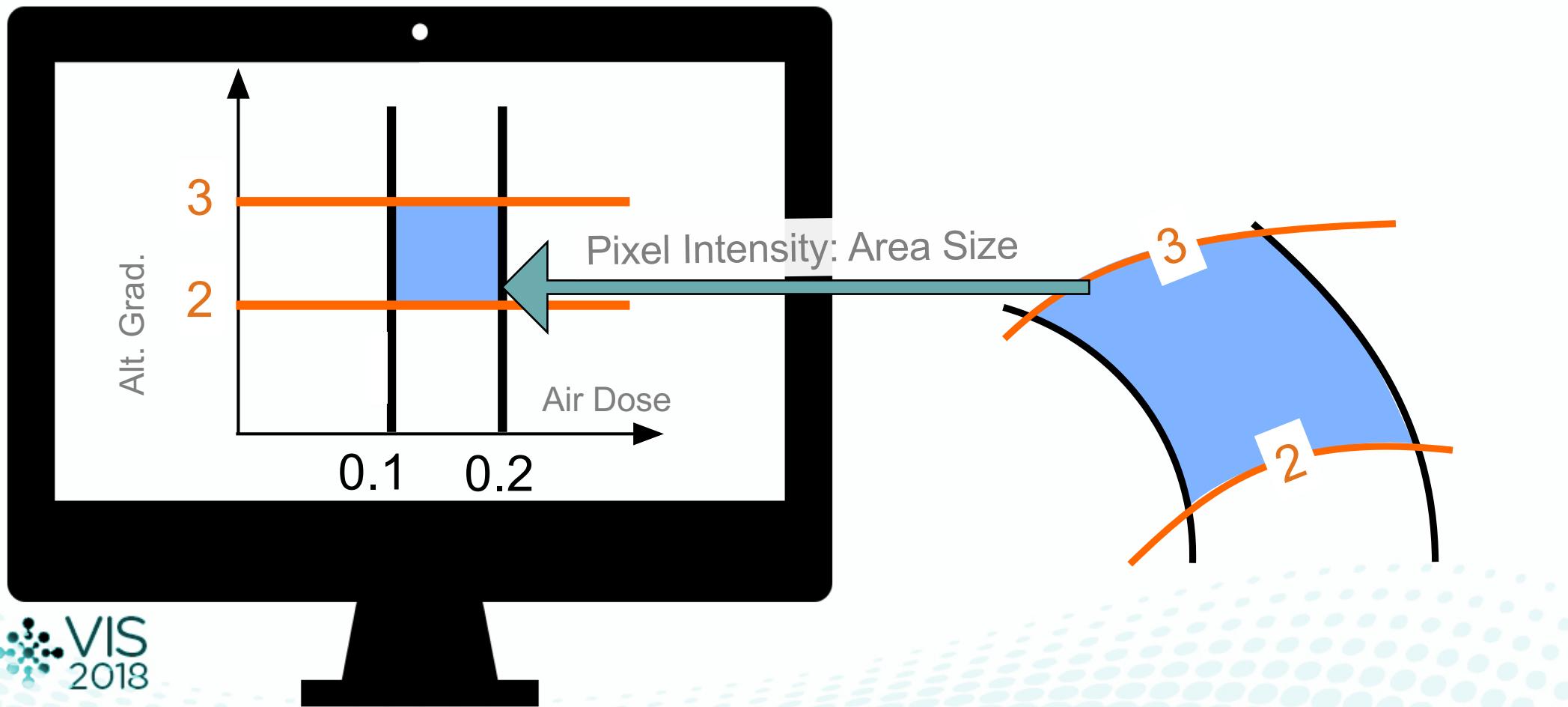
Inverse Problem:
Can we find regions
with wet air dose
from a scatterplot?

Remark: Continuous Scatterplot

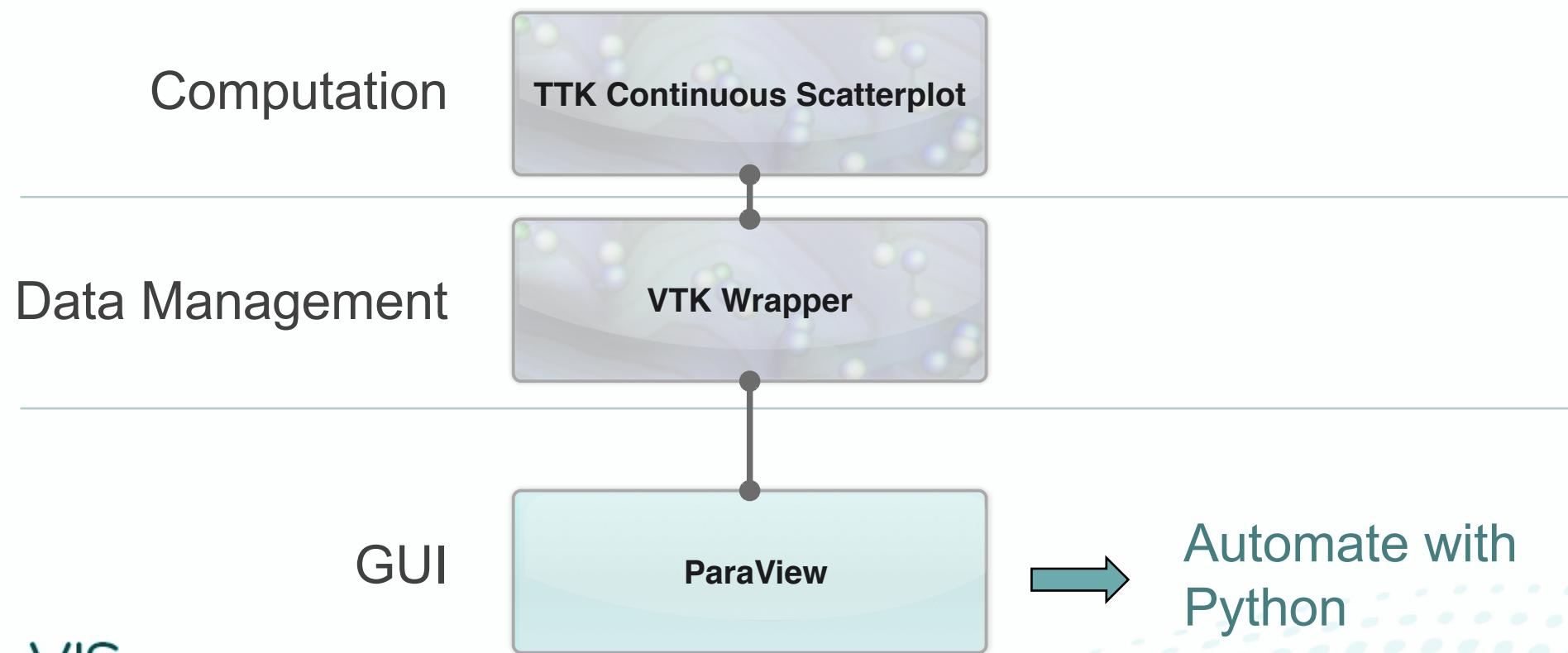


[Bachthaler & Weiskopf 2008]

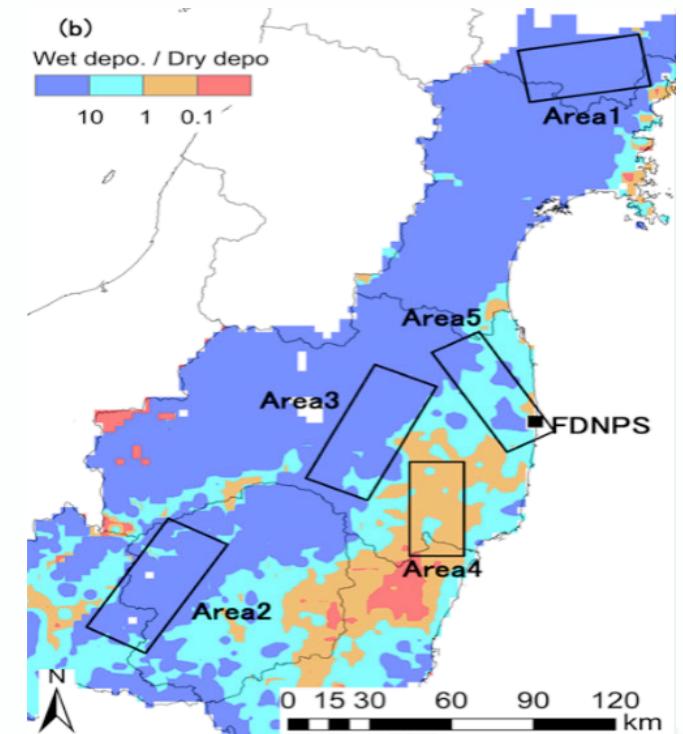
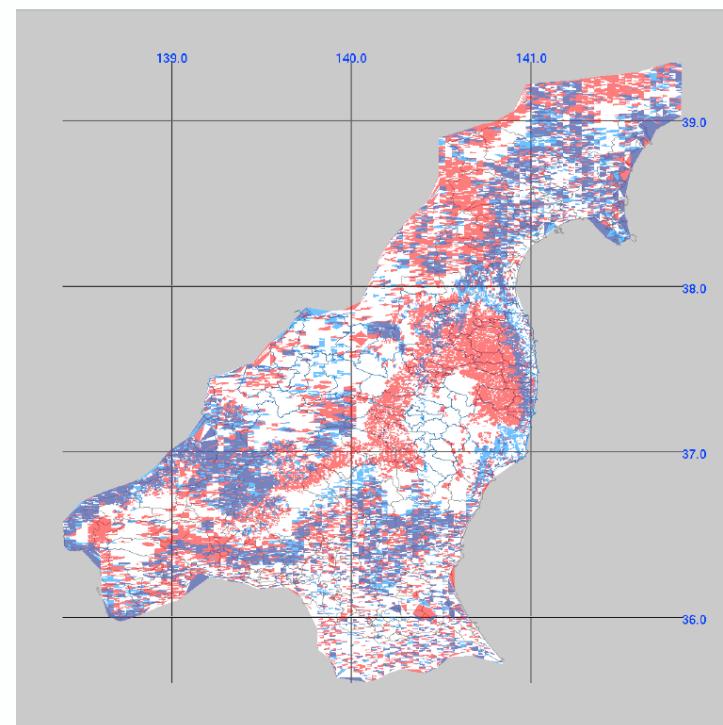
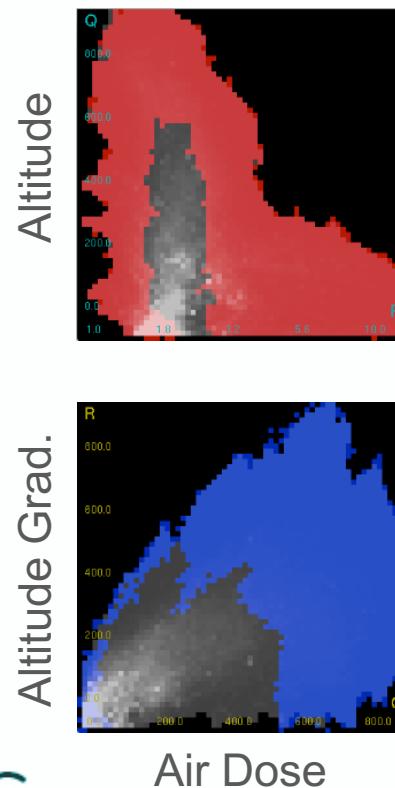
Drawing Continuous Scatterplot



TTK's Continuous Scatterplot



Finding Wet Air Dose



Concluding Remark

Brushing & linking: Finding correlation in data

Continuous scatterplot: Better visual guide to brushing & linking

Air dose: Correlation hypothesis