Item 4 Results of ICP Forests in 2009

Itensive Monitoring

Soil Solution Chemistry

Soil solution data:

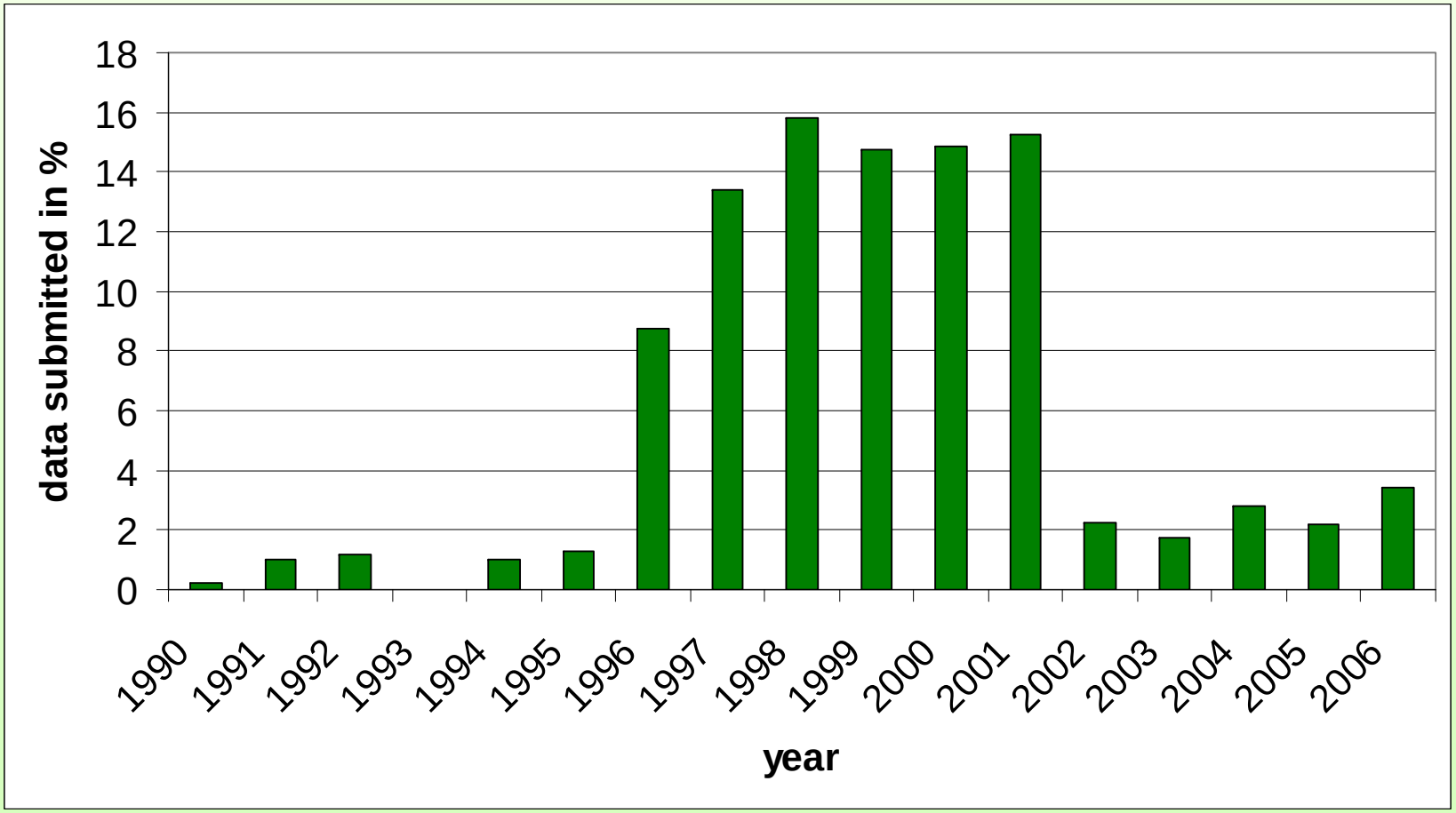
status March 2009

1990 – 2006

300 plots in 26 countries

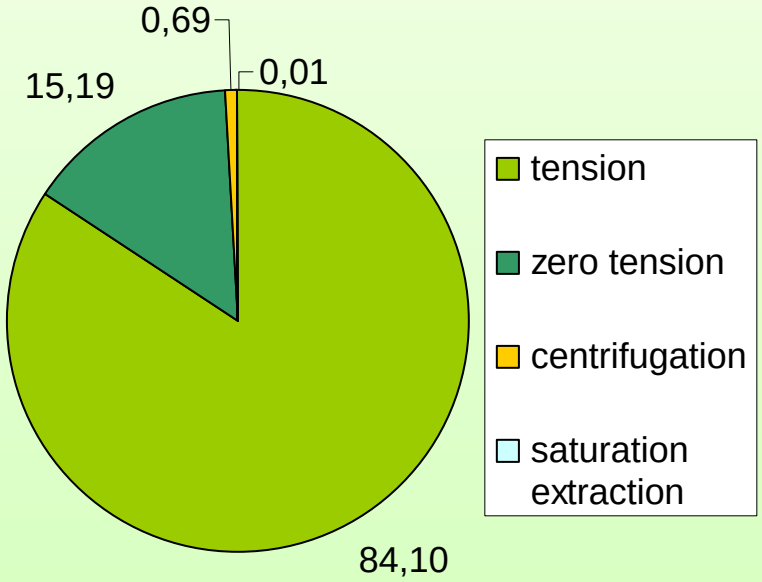
282 plots in 24 countries

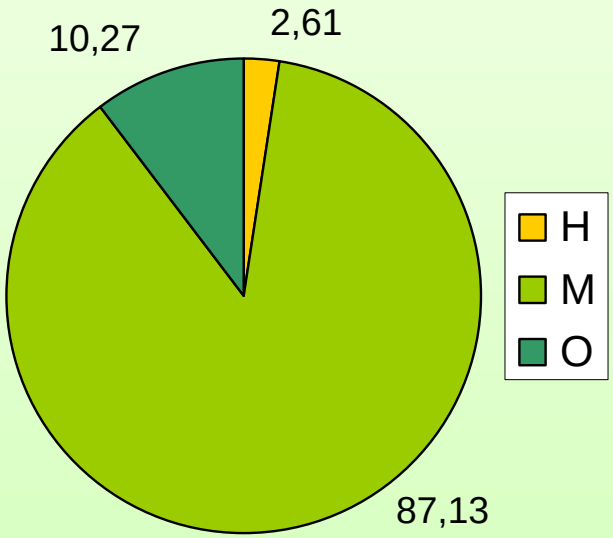
Data submitted and passed validation



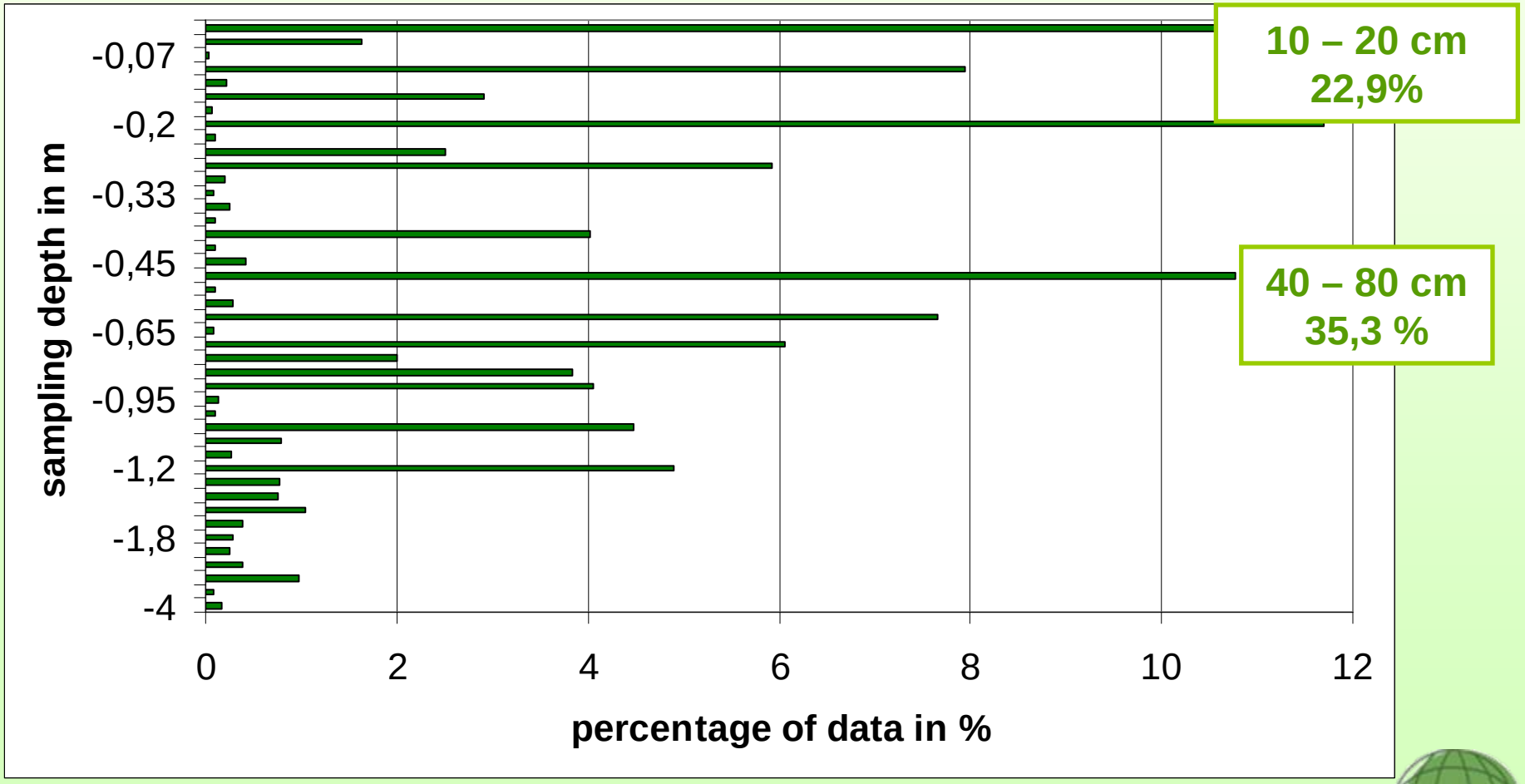
Plots per country

Sampler types and sampled horizons





Sampling depths



Criteria

Plot level: Continuous data 2001 – 2006

Tension lysimeter in mineral horizons

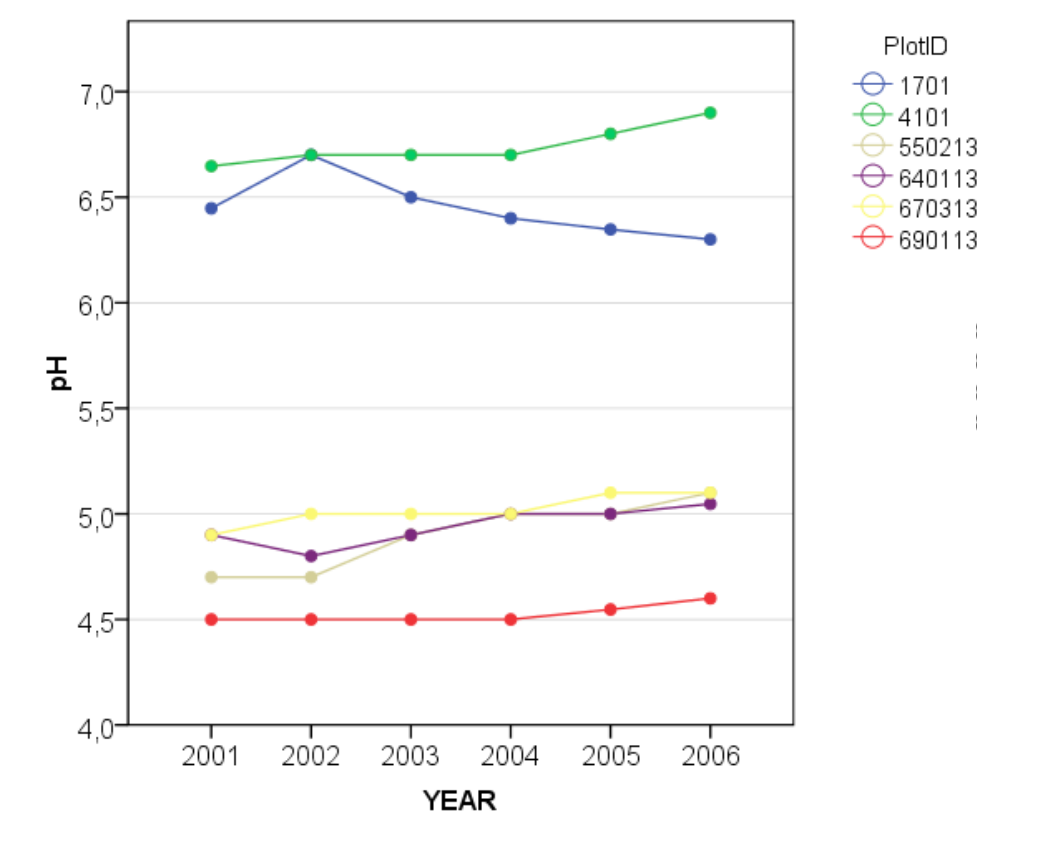
Sampling depth: 10 – 20 cm

40 – 80 cm

13 plots (129)

56 plots (194)

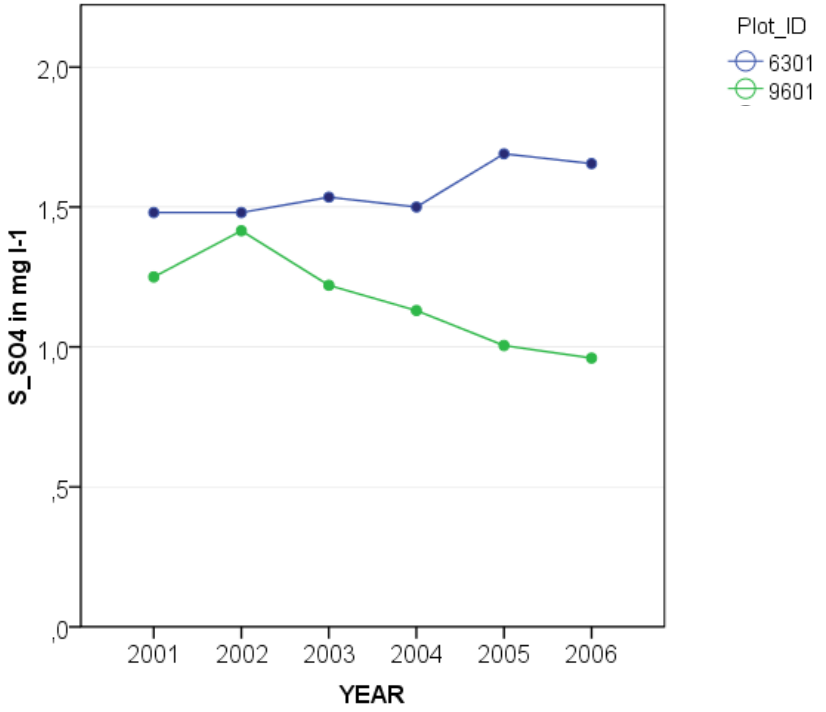
Results Plots

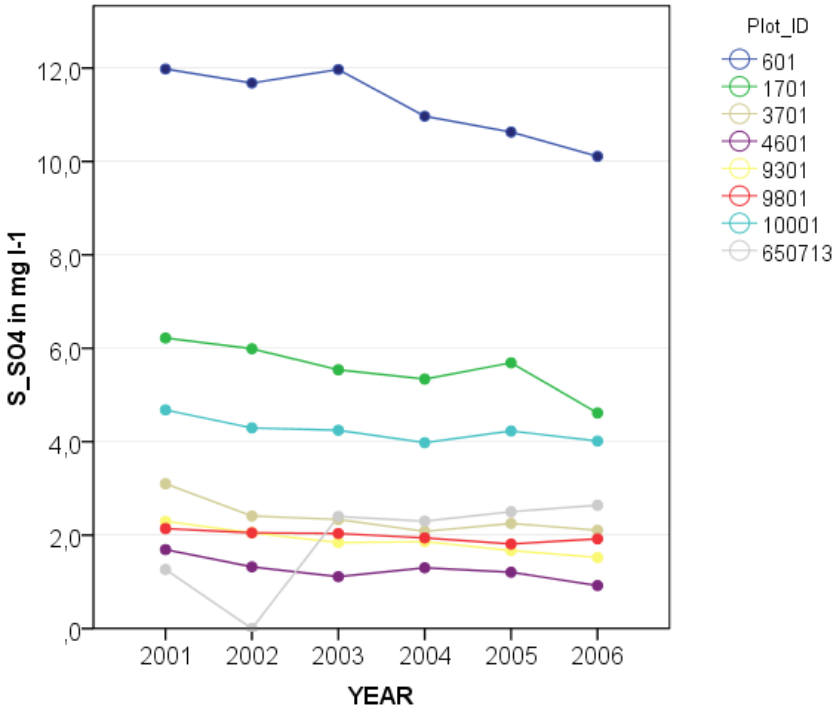


pH in 40 – 80 cm slight increases

Nitrogen: significant trends but not consistent

Results Plots

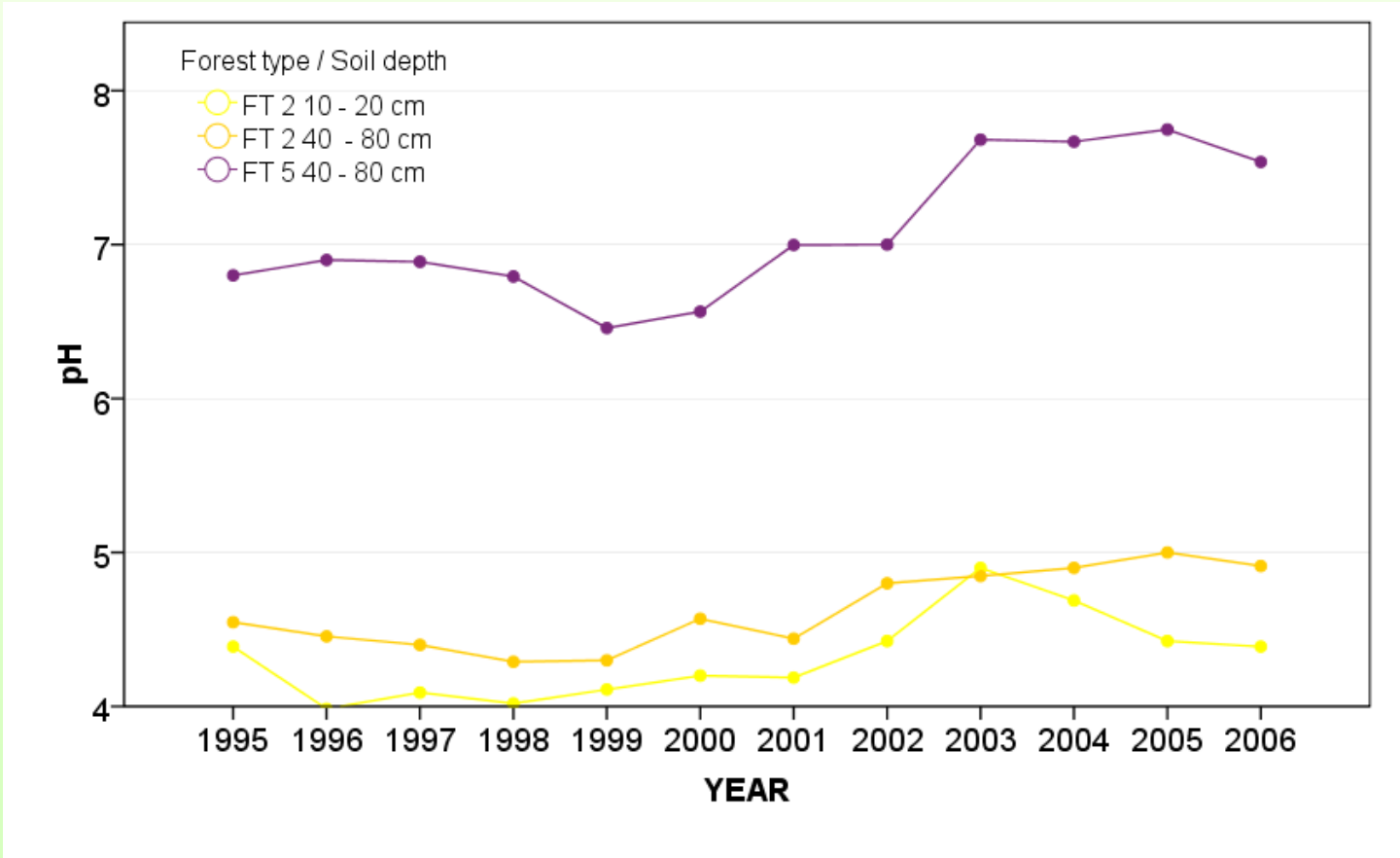




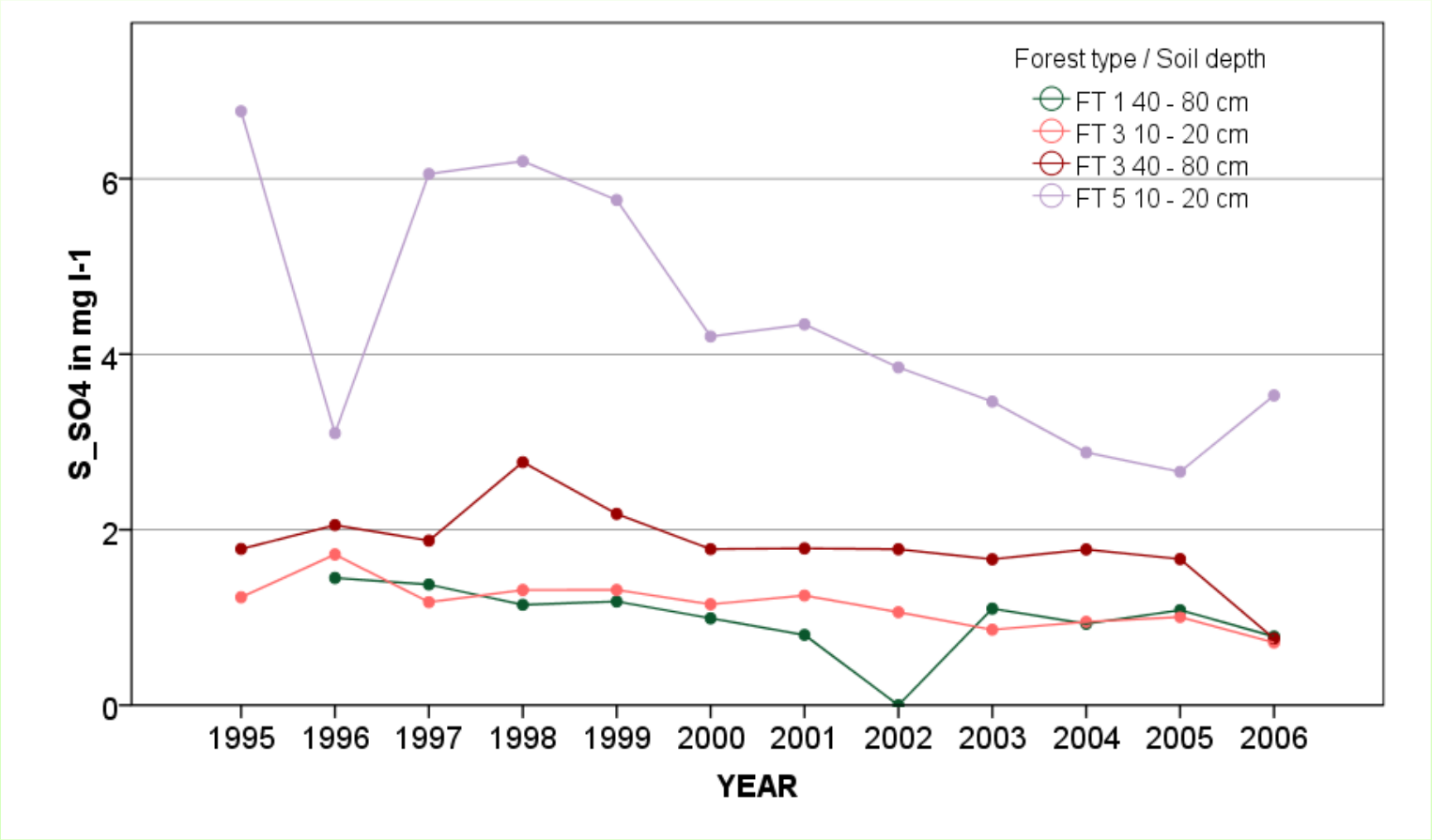
10 – 20 cm | **40 – 80 cm**

World Forestry

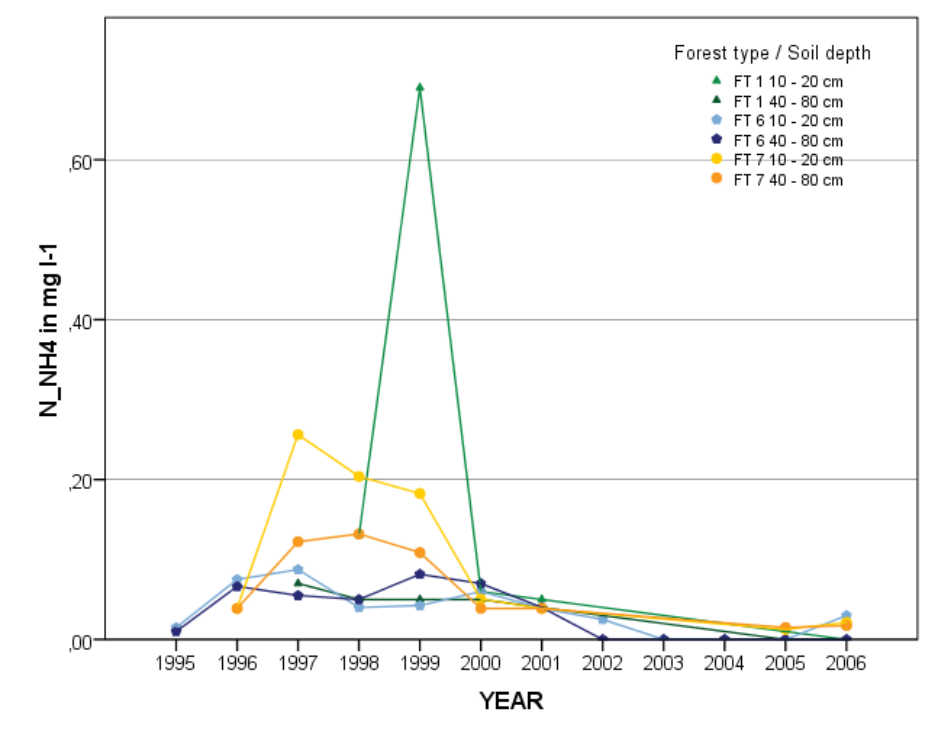
Results Forest Types

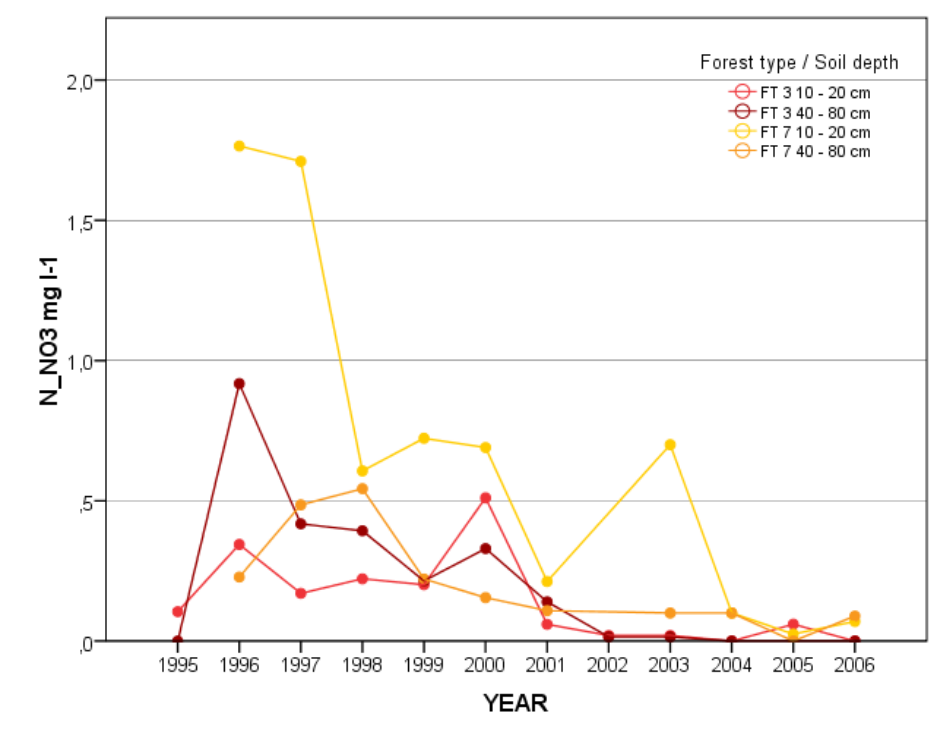


Results Forest Types



Results Forest Types





Ammonium **Nitrate**

World Forestry

Conclusions

Soil solution chemistry partly reflects reduction of sulphur emissions

Soil solution nitrogen shows high variation → reflects nitrogen deposition

Forest types not suitable

„temporal trends of element fluxes over periods lasting for several years“ → not enough coninuous data

significance of results depends on criteria selection

Data will undergo further quality assurance

Thank your for your attention!

Item 8 Results of ICP Forests in 2009

Soil solution survey forms

Plot Information (PSS)

Mandatory / Optional measurements (SSM) / (SSO)

[YEAR]-[CODE_COUNTRY]-[PLOT_NO]-[SAMPLER_NO]

And period number!

Two ways of definition

1 period start date	***01.01.2005***	***01.01.2005***
Last period final date	***31.12.2005***	***31.01.2005***
Number of equal monitoring periods (within the period defined by the two field above)	***12***	***1***