

# Improved SFM Criterion 2 indicators for Italian forests?

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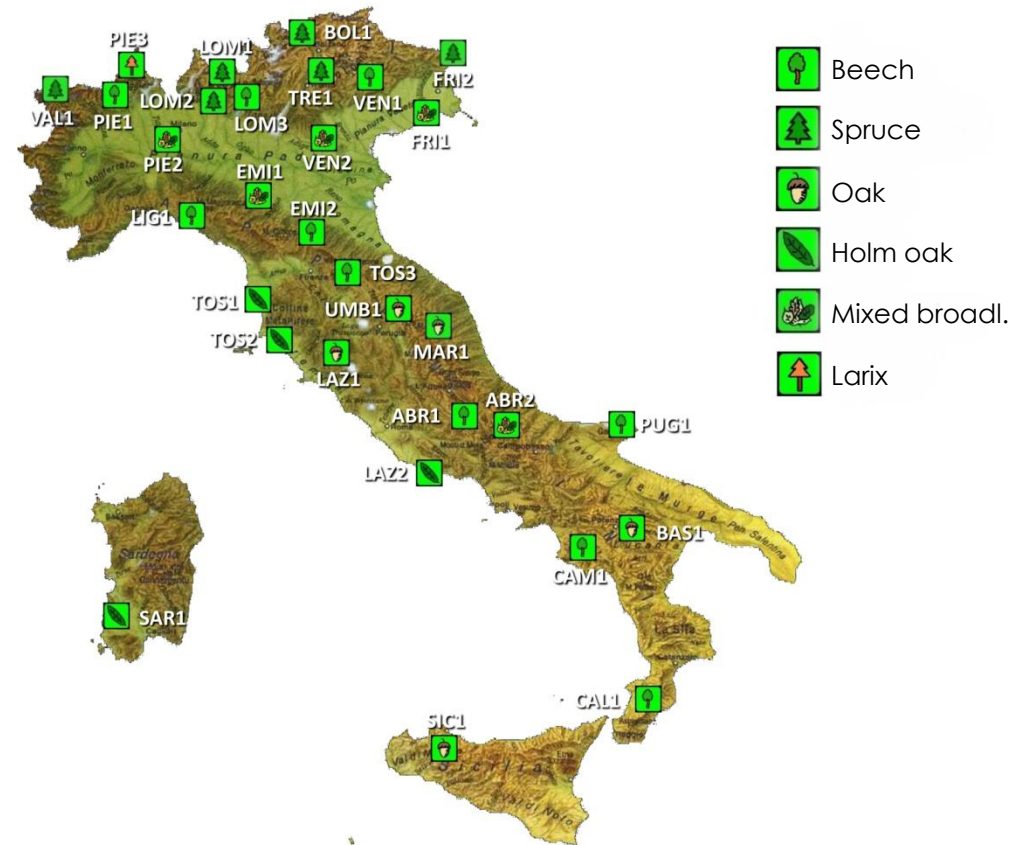


# Concept and data

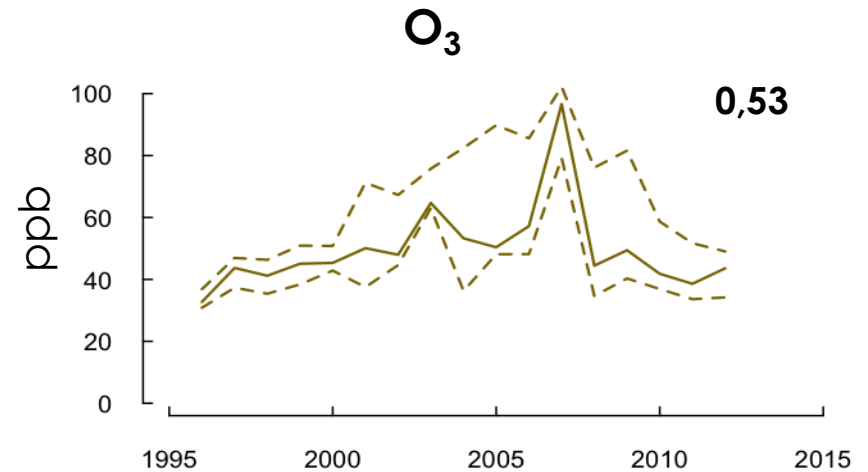
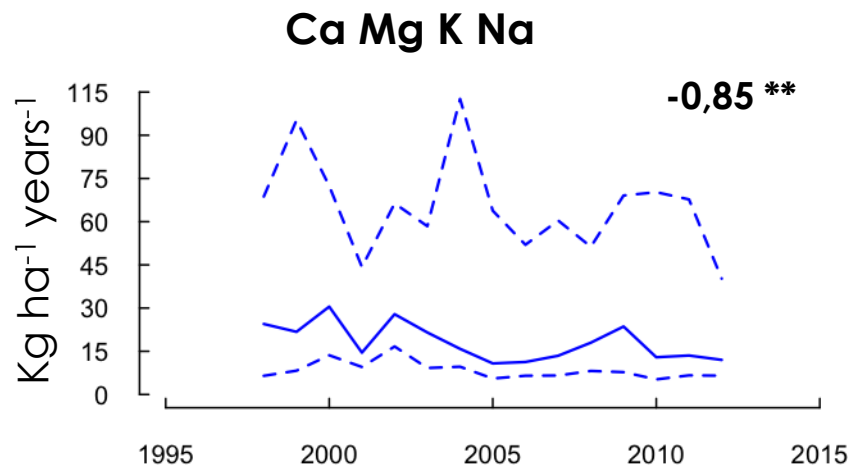
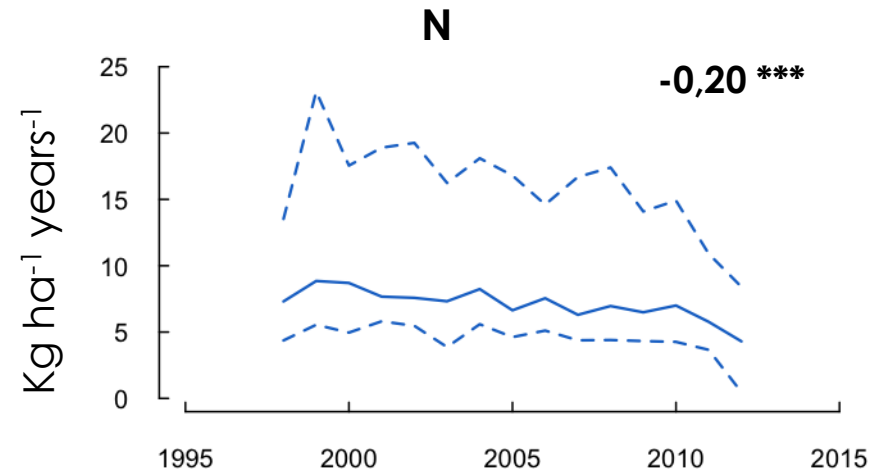
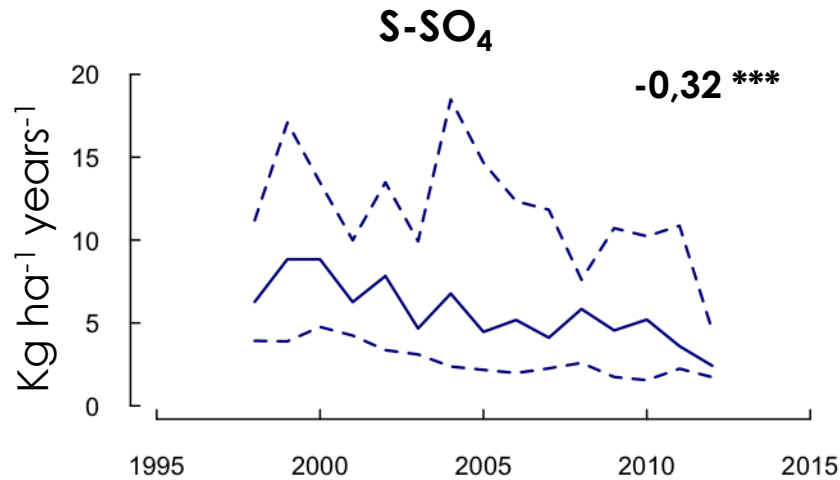
## Criterion 2 - Maintenance of Forest Ecosystem Health and Vitality

- 2.1 Deposition of air pollutants
- 2.2 Soil condition
- 2.3 Defoliation
- 2.4 Forest damage

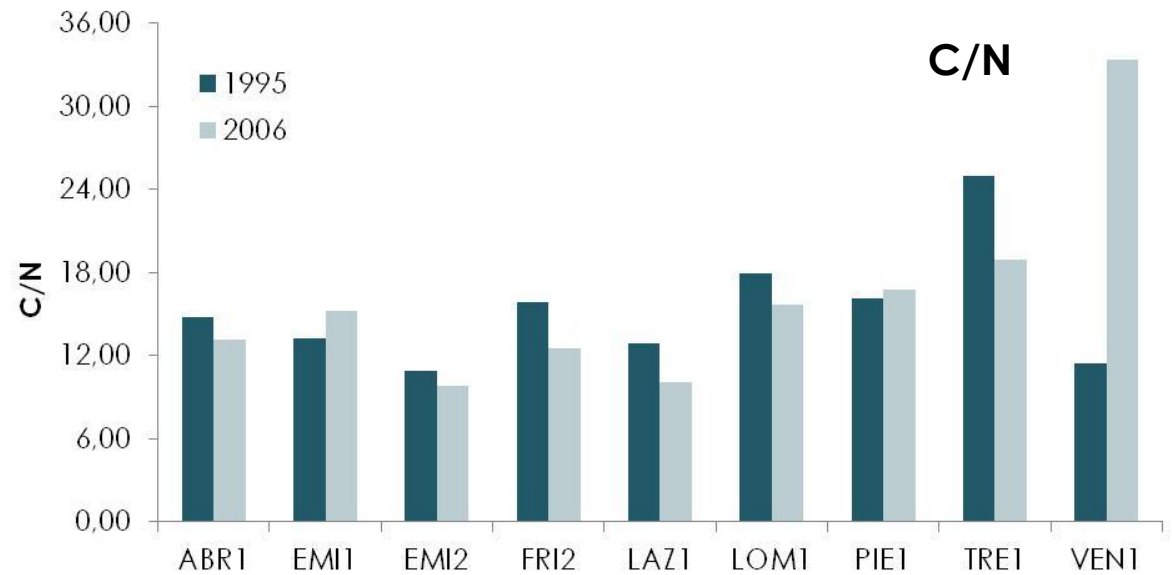
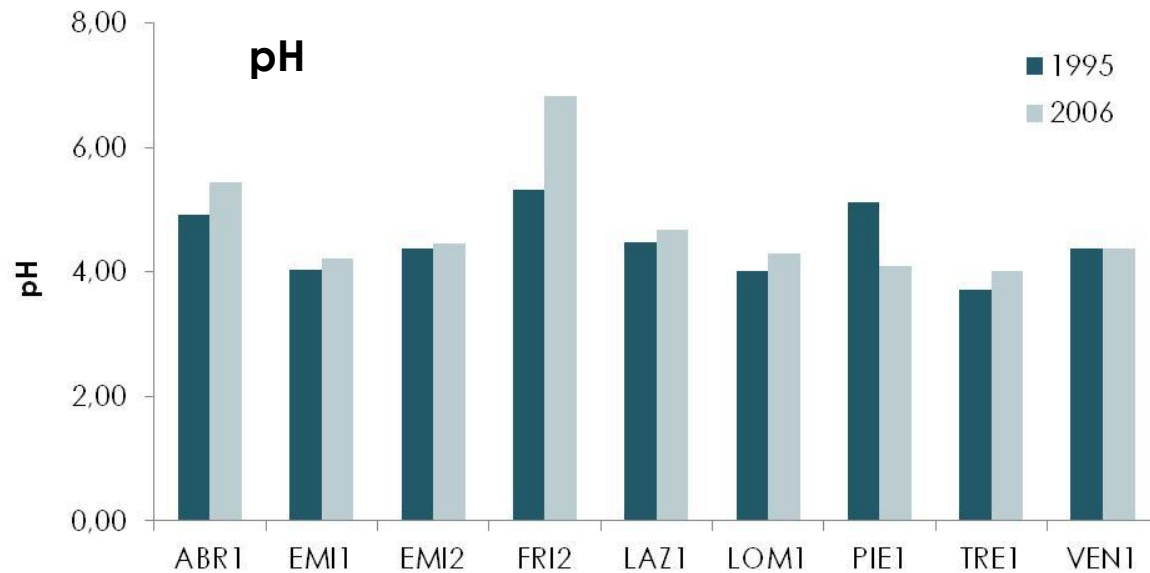
- Concept: to evaluate changes in SFM Criterion 2 indicators over the period 1995-2012
- Data: level II CONECOFOR network dataset



# 2.1 Deposition of air pollutants



## 2.2 Soil condition

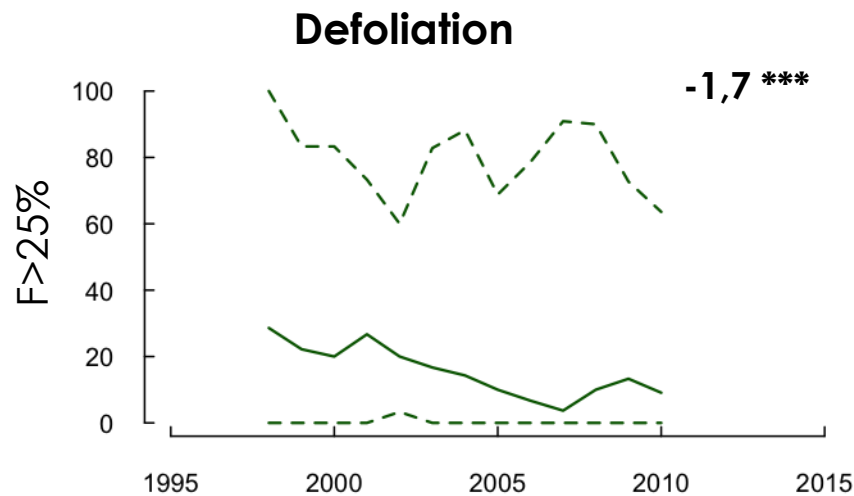


# 2.3 Defoliation

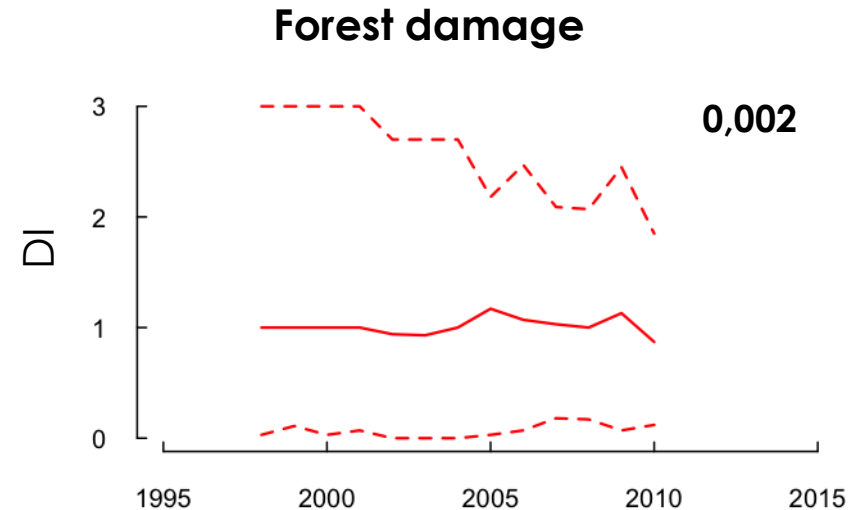
## 2.4 Forest damage



# Tree health



Frequency of trees with crown transparency >25%



Mean frequency of damage per tree



# Conclusions

## Criterion 2 - Maintenance of Forest Ecosystem Health and Vitality

2.1	Deposition of air pollutants	↓	significant decrease
2.1	O <sub>3</sub> concentration	↗	not significant increase
2.2	Soil condition	=	no trend
2.3	Defoliation	↓	significant decrease
2.4	Forest damage	=	no trend

- Apparent improvement of several SFM Criterion 2 indicators
- Comparison with data from network based on probabilistic design is necessary

# Thanks

Thanks for your attention



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