

Improved SFM Criterion 2 indicators for Italian forests?

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Concept and data

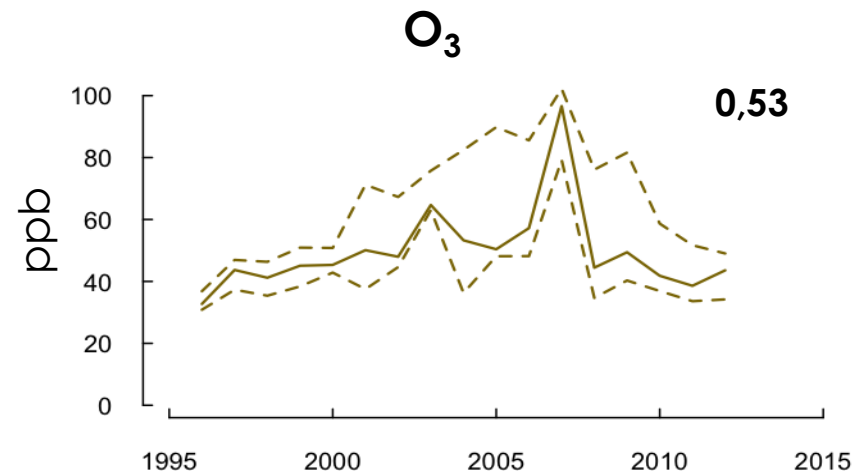
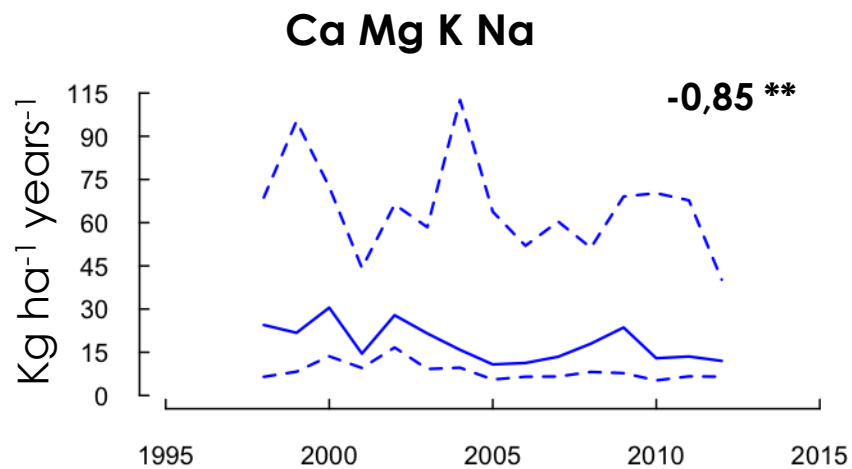
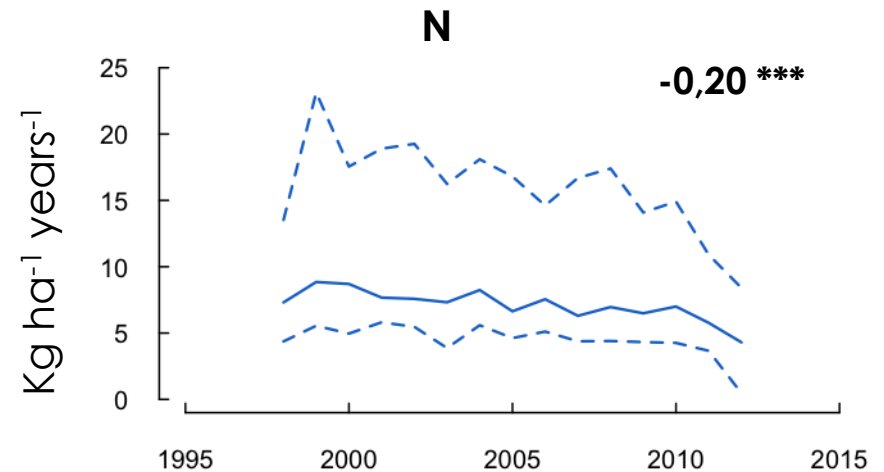
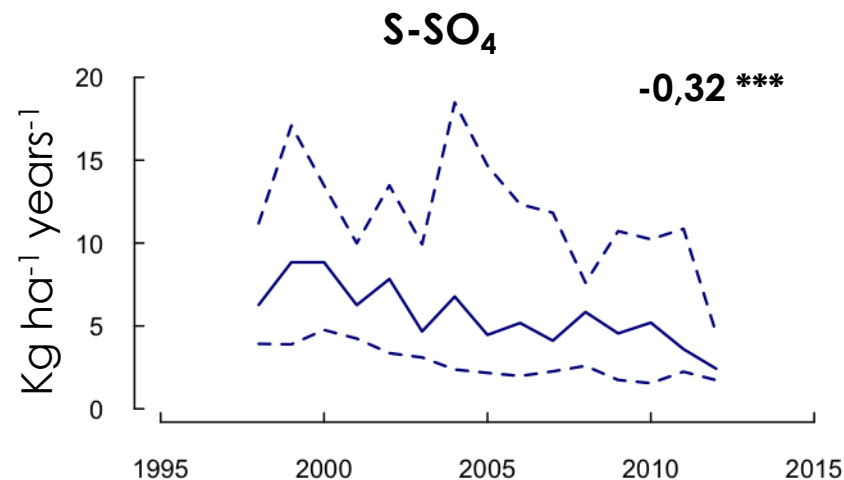
Criterion 2 - Maintenance of Forest Ecosystem Health and Vitality

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

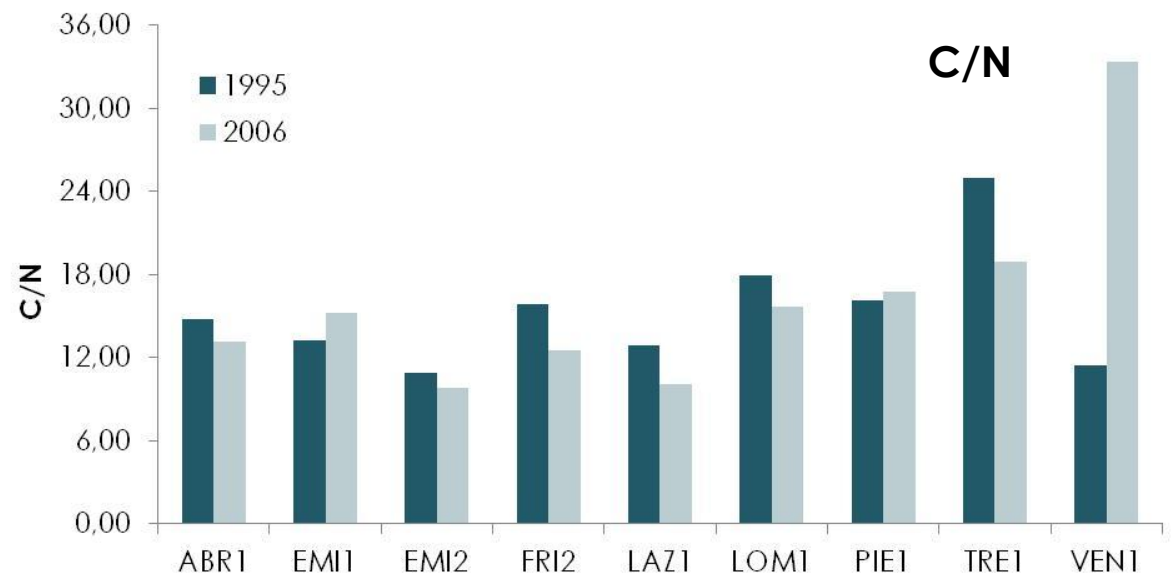
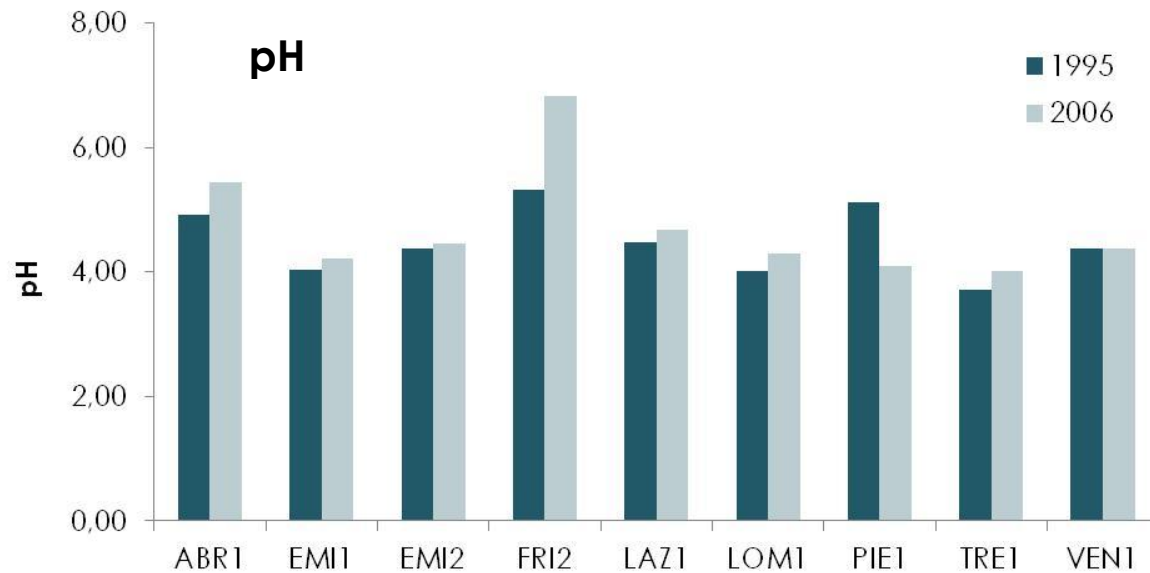
- Concept: to evaluate changes in SFM Criterion 2 indicators over the period 1995-2012
- Data: level II CONECOFOR network dataset



2.1 Deposition of air pollutants



2.2 Soil condition



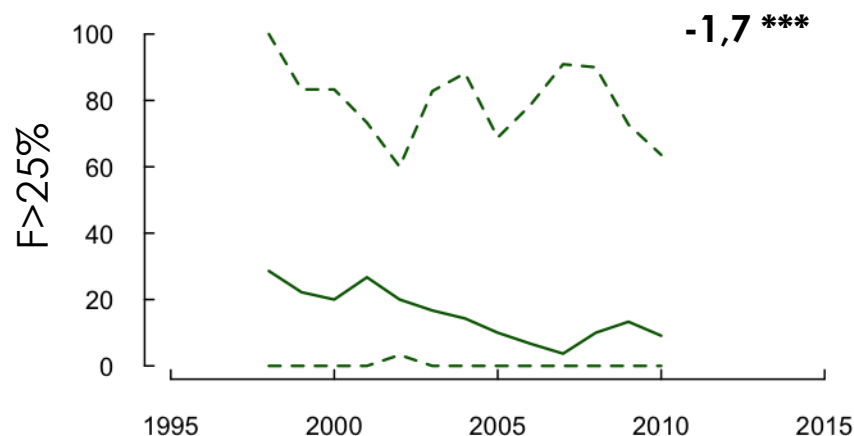
2.3 Defoliation

2.4 Forest damage



Tree health

Defoliation



Frequency of trees with
crown transparency >25%

Forest damage



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 ₃ 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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