

FO₂X

CNR IRET Conference

Rome, February 18th-19th 2025

TECHNOLOGIES FOR ECOSYSTEM RESEARCH: FO₃X – FREE – AIR O₃ EXPOSURE

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FACE FACILITY

FO3X is an advanced FACE system designed to study the effects of ozone pollution on vegetation under ambient conditions. It is crucial for the study of plant O₃ uptake.

Free-air O₃ eXposure



FACILITY SPECIFICATIONS

- 9 plots 5x5x2 m (L x W x H)
- Split-plot experiment design: Each O₃ treatment is replicated three times.
- Teflon-made vertical pipes network.

Climatic variables: meteorological station (3 m height) with multisensory instruments.

DIFFUSIVE SAMPLERS



Botton: 0.5 m

Up: 1.5 m

The sensors are used for long-term measurements of O₃ concentration within the plots

O₃ dispersion was below 20%.



Botton: 0.5 m

HEAT FACE



Temperature Free Air Controlled Enhancement technology to assess the combined effects of $(O_3, +$ high Temperature)