

ECOSYSTEM STATION

Name:	Castelporziano2 (IT-Cp2)
Location (lat–long):	Between the Tyrrhenian coast and the city (1.5 km from the seashore and 25 km from Rome). 41.7043 – 12.3573, 13 m a.s.l.
Environment:	Evergreen Mediterranean forest.
Operational history:	2012 – present.
Scientific purpose:	To study interactions between vegetation and the atmosphere in the context of Climate Change.
Station description:	The IT-Cp2 station hosts a flux tower (19 m) located inside an Holm oak forest with a full suite of meteorological sensors. Fluxes of CO ₂ , H ₂ O, CH ₄ and BVOCs are measured with sonic anemometer and fast analysers. Leaf temperature is recorded by custom-made thermocouples
Measured ICOS core parameters:	CO ₂ vertical profile CO ₂ , H ₂ O, Sensible heat fluxes Global, Net, Reflected, Diffused radiation Air and soil temperature profiles Soil Water Content profile Soil heat fluxes
Measured ICOS desirable parameters:	Canopy temperature CH ₄ Fluxes Sap flow
Other measured parameters:	PM _{1-2.5-10} concentration and fluxes O ₃ concentration and fluxes
Principal investigator:	Silvano Fares (Silvano.fares@crea.gov.it)
Data manager:	Tiziano Sorgi (tiziano.sorgi@crea.gov.it)
Funding:	Council for Agricultural Research and Economics (CREA)
Website/data portal:	https://fluxnet.ornl.gov/site/4090
Responsible organization:	Council for Agricultural Research and Economics (CREA)
Delegate from the responsible organization:	Silvano Fares (silvano.fares@crea.gov.it)

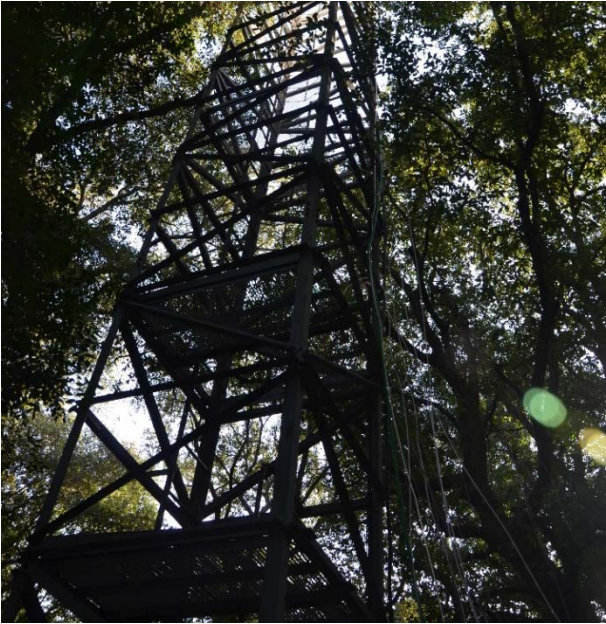
Flux monitoring system at the top of the tower



The holm oak forest (*Quercus ilex*)



The flux tower



Experimental site cabin at the bottom of the tower

