

Contact Details

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Organization details

Country:	Italy
Organization type:	Research Organization
Organization description (max 500 characters):	Principal topic of ISAC research are: Dynamic meteorology Climate Change Earth Observations Atmospheric processes

Sector of interest

H2020 Programme	
Research topic:	SC5-2-2015: ERA for Climate Services SC5-4-2015: Improving the air quality and reducing the carbon footprint of European cities SC5-15-2015: Strengthening the European Research Area in the domain of Earth Observation

Expertise

Description of the expertise (max 2000 characters):

My research activity is focused principally on follow topics:

- Study of vertical turbulent mass fluxes for fine and ultrafine particles, energy and momentum in atmospheric Surface Layer to investigate exchanges between Earth surface and Atmosphere, analysing correlations between different quantities (eddy correlation technique) and their parameterisation in order to describe dispersive characteristics of atmosphere. In this research task atmospheric observations are obtained with

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micrometeorological stations equipped with ultrasonic anemometer and fast sensors, able to measure both velocity field and concentration fluctuations.

- Ultrafine particles concentration measurements and their vertical turbulent fluxes (also in size segregated mode) using the eddy correlation technique with a Condensation Particle Counter (CPC) and an Optical Particle Counter. In this way it is possible to study relations between emission, diffusion and transport of gaseous primary pollutants and mechanisms of formation of secondary aerosol.
- Air quality investigations in urban, industrial and rural environments with a mobile laboratory. In this study aerosol dynamics and concentration levels are observed for different size fraction (PM10, PM2.5, PM1) in order to put in evidence the main pollution sources using source apportionment techniques.
- Study of atmospheric data from remote sensing, in particular acoustic sensor (miniSODAR) to obtain a vertical profile of turbulent quantities of interest for air dispersion studies.

Keywords describing the expertise offered:	eddy covariance, aerosol , particulate matter, urban environment, surface boundary layer, source apportionment, source characterization, micrometeorology,
Committment offered:	<ul style="list-style-type: none"> • Research • Training • Dissemination

Previous experience in FP Project

Former participation in FP European Projects?:	NO
Project Title/Acronym:	
Activities performed:	<ul style="list-style-type: none"> • Research • Demonstration • Training • Dissemination • Management • Other Role:

International Cooperation

Interest in international cooperation:	YES
Geographical area(s) of	<ul style="list-style-type: none"> • Mediterranean area



interest:

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- Balkan area
- Africa
- Asia
- Russia and NIS (Newly Independent States)
- Latin America
- Other

I agree with the publication of my data