

CURRICULUM VITAE

Dr. Luciano Massetti

Technologist at the Institute of Bioeconomy of CNR di Firenze.

E-Mail: luciano.massetti@cnr.it, tel. +39 0553033748, Fax. +39 055308910

Background: Computer science, applied meteorology and climatology, light pollution

From 1995 to 2003 he was responsible for the Office for IT Support Activities of the CNR Department of Accounting and, among other things, he coordinated various analysis and development projects of software for the accounting management of research institutes (overall more than 600 users between the central office and peripheral offices).

Since 2003 he has carried out his activity at the CNR IBE (EX-IBIMET). He has participated in research activities on various application sectors, in collaboration with the Faculty of Agriculture and Medicine of the University of Florence, making available his skills in the development of data management systems, simulation models and data analysis and processing for the study of urban climate and the effects on vegetation.

Since 2006 he has been involved in numerous teaching activities with schools of all levels on the topics of meteorology, phenology and carbon cycle, proposing innovative teaching methodologies based on inquiry-based science learning integrated with the use of ICT in the classroom.

Since 2006 he has been carrying out research in collaboration with the Interdepartmental Center for Bioclimatology (CIBIC) on urban climate and its impacts on human health and the environment.

From 2010 to 2012 he participated as Editor in the activities of the international working group (TWG Human Health and Safety) for the creation of technical specifications relating to environmental issues included in ANNEX II/III relating to the European Directive 2007/2/EC (INSPIRE Directive), which establishes an Infrastructure for Spatial Information in the European Community.

2013 to 2015: Scientific manager for IBIMET of the LIFE+ CLEANSED project: "Innovative integrated methodology for the use of decontaminated river sediments in plant nursing and road building". The CLEANSED project aims to demonstrate how phytotechnologies, understood as the use of consortia of plants, microorganisms and soil improvers, are able to convert dredged sediments into substrates suitable for the growth of ornamental plants or into materials suitable for the construction of road and railway surfaces

From 2014 to 2016 he was an Italian member of the COST action: LoNNe Loss of Night Network and is still carrying out research on monitoring light pollution and its impacts on the environment. As part of the COST Action, he organized and participated in an international scientific campaign to compare light pollution measurement instruments of various types and characteristics, in which 12 researchers from various European countries participated (March 2015).

From 2016 to 2019, he participated as an expert in two working groups of the COST Action CA15212 on Citizen Science. He participated in more than two meetings per year, working on specific studies aimed at exploring the synergies between citizen science projects and school education, social innovation and the implications in terms of RRI Research and Responsible Innovation.

From 2016 to today: educational activities, dissemination and research on monitoring light pollution and its impacts on the environment. As part of educational activities, he previously carried out activities with schools and organized events aimed at citizens. He was responsible for IBE of three international

ERASMUS+ projects (Envimobile, Bioprofiles and Teaching Green) aimed at training primary and secondary school teachers on environmental education topics.

From 2016 to today, creation and management of a monitoring network of coastal and mountain light pollution in Tuscany.

Since 2017, he organized and carried out activities to disseminate and raise awareness among citizens on the topic of light pollution and its impacts on the environment in collaboration with entities such as the Tuscan Archipelago National Park.

In 2018, he organized the International Symposium on the promotion and protection of the night sky, which was held in Capraia Isola on 13-14 September 2018.

Since 2019, he has collaborated with the Department of Biology of the University of Pisa, the Institute of Marine Sciences and the Institute of Clinical Physiology of the CNR on studies of the impact of climate change on the spread of parasites and nesting of seabirds and which investigate new monitoring techniques also through the use of drones applied to environmental issues such as waste accumulation and the spread of alien plant species in coastal environments.

Publication:

Light pollution

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F Ugolini, L Massetti. Teaching the Carbon Cycle Using IBL in the Secondary Schools. 2013. Causes, Impacts and Solutions to Global Warming, 323-332

F Ugolini, L Massetti, G Tagliaferri, GM Lanini, C Screti, A Raschi. Introducing Climate Change Topics In Science Teaching Through The 5e Model Of Ibl: Teachers Perspectives. 2012. ICERI2012 Proceedings,

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Urban climate and urban green area

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