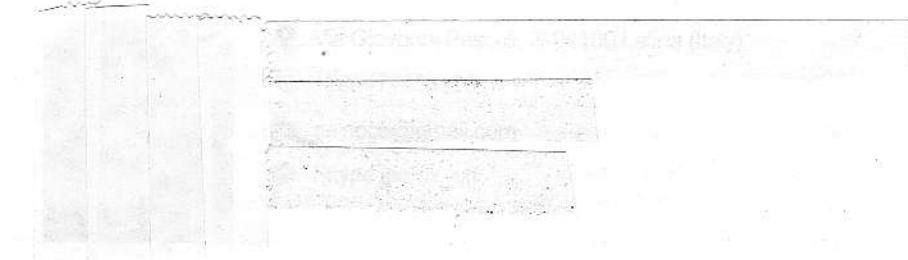PERSONAL INFORMATION **Sergio Noce**

WORK EXPERIENCE

01/01/2012–Present **Researcher - GIS Analyst**
CMCC - Euro-Mediterranean Center on Climate Change, Lecce (Italy)
www.cmcc.it

Main projects:

- MADAMES: report production in forest ecosystem services (mediterranean area)
- ACEA: development of web gis applications and geodatabase implementation
- GEMINA: studies on the future impacts of climate change on the European forests through application of statistical models (BIOMOD et al). Preparation of spatial inputs in GIS environment, parameterization and running of the models. Spatial analysis of data and production of thematic maps. Spatial and Geostatistical analisys applied to forest data for the production of Hot Spot maps of presence
- FUME: implementation and application of small and large land use change models. Preparation of inputs in GIS environment and analysis of results
- FAO GEOCARBON: creation and updating of the Global Soil Organic Carbon Geodatabase, global atlas of small-scale organic soil carbon content (30 arcsec)) in collaboration with FAO

Other activities:

Collaboration with private companies (ACEA-BARILLA) in the implementation of climatic data geodatabases and development of WEBGIS applications

GIS support to division personnel (maps and data production, analysis and creation

Business or sector Research applied to Climate Change and terrestrial ecosystems through the use of Geographic Information Systems (GIS). Implementation and development of Geodatabases and WebGis applications

07/2006–31/12/2011 **GIS Analyst and Remote Sensing technician**
Agriconsulting S.p.A., Rome (Italy)
www.agriconsulting.com

Main projects:

- Ponte sullo Stretto di Messina: monitoring the environmental impact of large infrastructures, implementation, design and management of spatial databases. Modeling spatial data, creation of thematic maps and layers, implementation and running of land use change models. Analysis and management of remote sensing data
- SIGRA2: creation of an information system for flood risk management in Italy for ANIA (Italian association of insurance institutions). Implementation of spatial analysis processes for the automatic creation of the Italian hydrographic network
- PIC Integrated Field Platform: implementation of an integrated platform (JAVA based) for the collection of agronomic data in the field
- LUCAS: data collection for agronomic and forestry statistics (European Community), production

and processing of geographic data, implementation of automated processes aimed at collection of data field (Python in GIS environment)

- Technical assistance to the National Park of Cilento and Vallo di Diano: acquisition, homoegenisation, topological correction of geographical data, production of thematic maps. Responsible for the implementation and management of the Park Information System (both hardware and software). Teacher in GIS courses for park employees

- Register of forest fires in the Campania Region: collection and analysis of satellite images for the identification of burned areas, digitization on aerial photos and on cadastral maps

- Desertification risk Sardinia Region: acquisition and processing of geographical and alphanumeric data; implementation and analysis of statistical models to produce desertification and hydrogeological risk maps for Sardinia.

Business or sector Consultancy and service in the agricultural and environmental fields. Geographic information systems

EDUCATION AND TRAINING

05/2013 Indroduction to Geoprocessing Script using Python
ESRI Italia, Rome (Italy)

Phyton in ESRI Geoprocessing enviroment

04/2008 Spectral analisys with ENVI
EXELIS Visual Information Solutions, Roma (Italy)

Hyperspectral satellite images processing

10/2005–11/2006 Environmental geotechnologies Master Degree   EQF level 8
CGT - Centro di Geotecnologie dell'Università di Siena, San Giovanni Valdarno (AR) (Italy)

- Polluted sites and planning of remediation interventions
- Design of controlled landfills
- Ecocompatible stabilizations
- Geochemistry of water and soil
- Bioremediation
- Environmental Geostatistics
- GIS Geographic Information Systems
- Geo-environmental modeling

10/1999–10/2005 Forestry and environmental science Degree cum laude   EQF level 7
Università della Tuscia, Viterbo (Italy)

PERSONAL SKILLS

Mother tongue(s)   Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	A2	A2	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

| Job-related skills | Basketball refeee in the second Italian League |

| Digital skills | |

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

Ten-year experience in the use of GIS sotware both proprietary (ESRI ArcGis) and open source (GVSig, Quantum GIS, etc.). Good knowledge in the use of Remote Sensing sotware. Good knowledge of Python programming and basics of Java.

| Driving licence | B |

ADDITIONAL INFORMATION

| Publications | |

- Likelihood of changes in forest species suitability, distribution, and diversity under future climate: The case of Southern Europe. Noce S., Collalti A., Santini M. 2017. Ecology and Evolution 7(22), 9358- 9375

- Global Soil Organic Carbon (at 30 arcsec). Latham J., Nachergaele F., Henry M., Vargas R., Noce S., Santini M., Chiti T. 2017. FAO-CMCC

- Exploring the relationship between canopy height and terrestrial plant diversity. Cazzolla Gatti R., Di Paola A., Bombelli A., Noce S. and Valentini R.. 2017. Plant Ecology 218(7), 899-908

- Hot Spot maps of forest presence in the Mediterranean Basin . Noce S., Valentini, R. and Santini, M. 2016. iForest, Biogeosciences and Forestry 9(5), 766-774

- Does degradation from selective logging and illegal activities differently impact forest resources? A case study in Ghana. G.Vaglio Laurin, W.D.Hawthorne, T.Chiti, A.Di Paola, R.Cazzolla Gatti, S.Marconi, S.Noce, E.Grieco, F.Pirotti, R.Valentini. iForest, Biogeosciences and Forestry. 2016 9(3), 354-362

- Santini M, Maillè, E., Noce S., Duguy, B, Bosello, F., Viedma, O., Koutisas, N., Bacciu, V., Land use and land cover change modeling (2014). In book: FUME Lessons learned and outlook. Chapter:9, Editors Josè M. Moreno, pp 22-23

- Land Use/Land Cover Dynamics and models. Seventh Framework Programme Theme ENV 1.3.1.1 (2012). Moity et al. Report number: 33, Affiliation: European Commission; University of Castilla-laMancha

- A multi-component GIS framework for desertification risk assessment. Santini M., Caccamo G., Laurenti A., Noce S., Valentini R., 2010 Applied Geography, 30(3), 394-415

| Conferences | |

Conference proceedings:

- Noce, S. Mappe di Hot Spot di presenza forestale nel Bacino del Mediterraneo. Atti della 16°Conferenza Italiana Utenti ESRI 2016 Roma

- Bacciu, V., Alcasena, F., Arca, B., Bosello, F., Gualdi, S., Noce, S. & Santini. 2014. M. Fires in the perspective of future changes: the contribute of CMCC to FUME Project.SISC, Second Annual Conference Climate change: scenarios, impacts and policy. Venezia, Italy

- Papale, D., Belli, C., Calvani, P., Gioli, B., Noce, S., & Vannini, A. (2007). A new flexible airborne multispectral sensor for agriculture and forestry applications. In AGU Fall Meeting Abstracts (Vol. 1, p. 1528)

- Santini, M., Caccamo, G., Noce, S., & Valentini, R. (2007). Integrated modelling and GIS: A new

approach to assess desertification vulnerability and risk in Sardinia Island (Italy). In AGU Fall
Meeting Abstracts(Vol. 1, p. 0948)

Oral presentations:

- Likelihood of changes in forest species suitability, distribution and diversity under future climate: the
  case of Southern Europe. SISC Conference 2017, October 2017, Bologna, Italy

- Likelihood of changes in forest species suitability, distribution and diversity under future climate: the
  case of Southern Europe. International Mistral workshop. Climate Change impacts in the
  Mediterranean region Montpellier. October 2017, Montpellier, France

- Mappe di Hot Spot di presenza forestale nel bacino del Mediterraneo. Dal dato grezzo al dato
  qualitativo. ESRI Italia user conference 2016, April 2016, Rome, Italy

- Hot Spots maps of Forest Presence. A Web Mapping Application of ArcGis Online. Live Poster.
  ESRI Italia user conference 2014, April 2014, Rome, Italy

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