



Online Event 4th-8th May 2020

**Soil organic and inorganic carbon stocks and
dynamics in agro-ecosystems: mechanisms,
measurements and modelling strategies**
[SSS9.7/BG1.16]

DISPLAY SESSION
6th May 2020
8:30–10:15

[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

Convener: Sergio Saia

Co-conveners: Laura Quijano, Calogero Schillaci, Viktoriia Hetmanenko, Jorge Alvaro-Fuentes

[Displays](#) | Chat Wed, 06 May, 08:30–10:15



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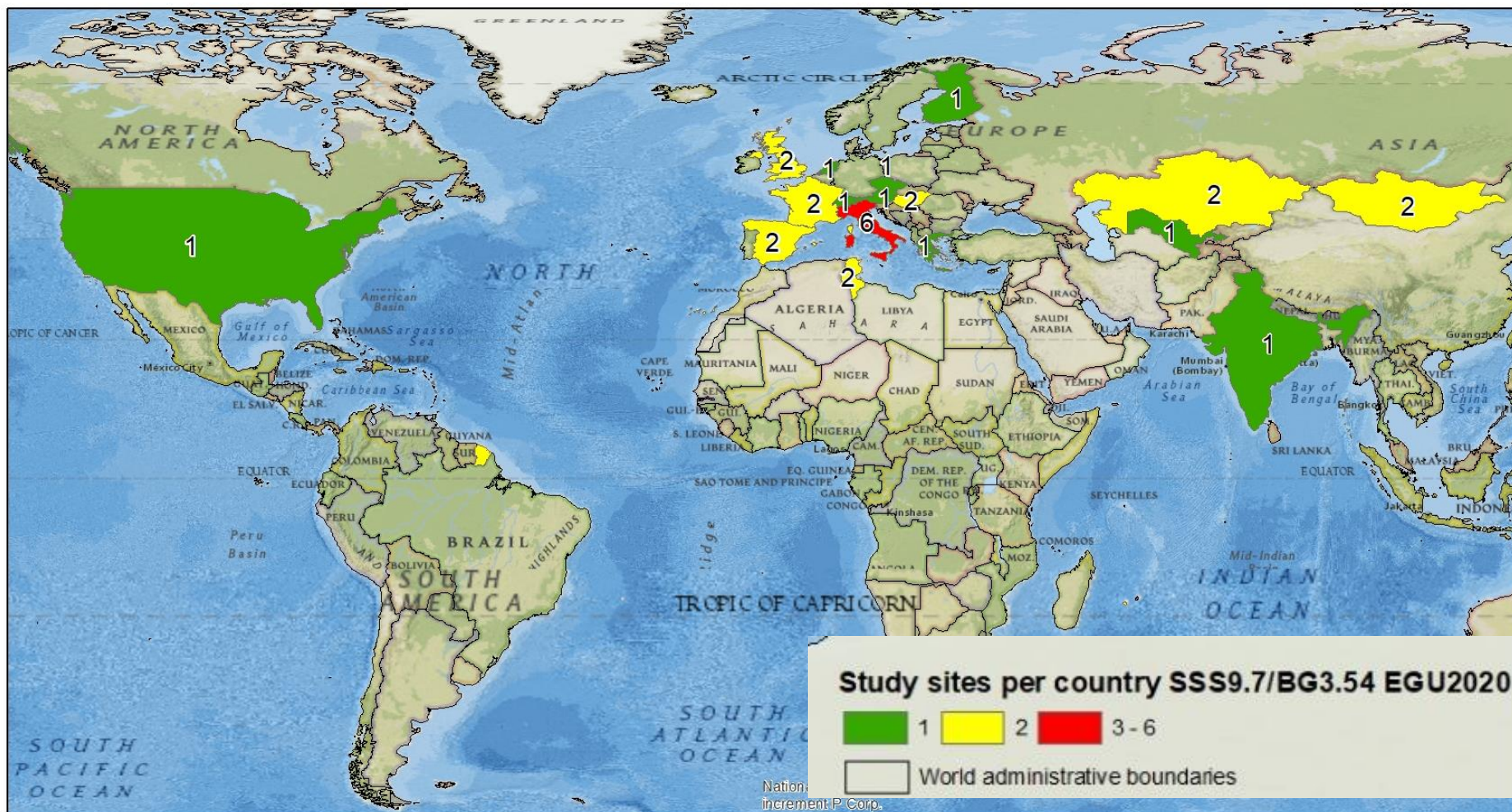


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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SPATIAL DISTRIBUTION OF OUR SESSION CONTRIBUTIONS



[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

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Aim

Bring together experiences

- Soil C dynamics
- Interaction among the mechanisms affecting C concentration and stocks in soil
- Discussion about the proxies to measure and model C stocks



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Discuss

WHAT and WHAT?

- Development and key concepts of soil organic (22 contributions) and inorganic carbon (3 contributions).
- Soil carbon dynamics related to soil management and climate adaptation strategies

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Bring
together

Experience

- Methodologies
- Ideas
- Approaches



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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

Organic Carbon and Nitrogen stocks in two soil types of Northwestern Tunisia: Temporal and spatial variation

Ahlem Tlili, Imene Dridi, and Moncef Gueddari

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<https://meetingorganizer.copernicus.org/EGU2020/EGU2020-810.html>

[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

**Carbon speciation and carbon isotopic characterization of agricultural soils
in Emilia-Romagna Region (Northeastern Italy)**

**Valentina Brombin¹, Gianluca Bianchini¹, Claudio Natali², Livia Vittori
Antisari³, Gloria Falsone³, Mauro De Feudis³, Gian Marco Salani¹, Enrico
Mistri¹, and Francesco Malavasi¹**

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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

Spatial variability of organic and inorganic carbon stocks in Hungry Steppe (Uzbekistan)

**Sophia Demina¹, Viacheslav Vasenev¹, Kristina Ivashchenko^{1,2}, Inna
Brianskaia¹, Bakhtiyor Pulatov³, and Alim Pulatov³**

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<https://meetingorganizer.copernicus.org/EGU2020/EGU2020-21454.html>

[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

**Investigation of the carbon sequestration potential of soils and woodlands
at university farms**

Jiaqian Wang, David Werner, and David Manning

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<https://meetingorganizer.copernicus.org/EGU2020/EGU2020-19866.html>

[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

Interacting abiotic, biochemical and management factors explain soil organic carbon in Pyrenean grasslands

Antonio Rodríguez^{1,2}, Rosa Maria Canals³, Josefina Plaixats⁴, Elena Albanell⁴, Haifa Debouk^{1,2}, Jordi García-Pausas², Leticia San Emeterio³, Juan José Jiménez⁵, and M.-Teresa Sebastià^{1,2}

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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

From Pasture and Cropland to Nut Orchards: Modelling the Dynamics of Carbon Sequestration by Agroforestry Systems in the Temperate Climate Zone.

Erik Roest¹, Angelique Lansu¹, Ton Baltissen^{1,3}, and Stefan C. Dekker^{1,2}

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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

Effects of conversion from vineyard to tree plantation on humus forms, soil organic carbon stock and other soil properties

Chiara Ferré¹, Gianni Facciotto², Sara Bergante², and Roberto Comoli¹

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<https://meetingorganizer.copernicus.org/EGU2020/EGU2020-4644.html>

[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

SOC modelling and cropping system managements in contrasting climatic conditions

Marco Acutis¹, Elena Valkama², Gulya Kunyapiyeva³, Muratbek Karabayev⁴, Rauan Zhapayev⁵, Erbol Zhusupbekov⁵, Alessia Perego¹, Calogero Schillaci¹, Dario Sacco⁶, Barbara Moretti⁶, and Carlo Grignani⁶

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<https://meetingorganizer.copernicus.org/EGU2020/EGU2020-9404.html>

[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

Biochar combined with manure application can decrease organic matter decomposition compared to manure alone in the dry tropical cropland of south India

Mayuko Seki¹, Soh Sugihara¹, Hidetoshi Miyazaki², Muniandi Jegadeesan³, Pandian Kannan³, and Haruo Tanaka¹

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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

Changes in soil properties on agricultural land with the impact of water and tillage erosion in the last 60 years

Anna Juřicová^{1,2}, Tomáš Chuman¹, and Daniel Žížala²

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<https://meetingorganizer.copernicus.org/EGU2020/EGU2020-16855.html>

[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

**Soil organic carbon stock development in chernozemic soils following
agricultural abandonment**

Tibor József Novák, László Márta, and Szabolcs Balogh

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<https://meetingorganizer.copernicus.org/EGU2020/EGU2020-15424.html>

[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

Impact of site-specific fertilizing management in carbon and water footprint. The case of cotton under Mediterranean conditions

Antonios Papadopoulos, Gerasimos Troyanos, Dionissios Kalivas, Maria Doula, Stamatios Kavalis, Georgios Zagklis, and Chronis Kolovos

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Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

Hyperspectral imaging for high-resolution mapping of soil profile organic carbon distribution in an Austrian Alpine landscape

Yaser Ostovari, Baptist Köppendörfer, Julien Guigue, Jan Willem Van Groenigen, Rachel Creamer, Thomas Guggenberger, Florian Grassauer, Eleanor Hobley, Laura Ferron, Henk Martens, Ingrid Kögel-Knabner, and Alix Vidal

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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

Deep soil accumulation of organic carbon under cultivated Kazakh Steppe soils

Aleksey Prays, Sonia Banze, Friedrich Jalowy, Klaus Kaiser, and Robert Mikutta

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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

Organic matter investigation in agricultural Apennine topsoils (Emilia-Romagna Region): carbon pools and isotopic C signature

Enrico Mistri¹, Gianluca Bianchini¹, Claudio Natali², Livia Vittori Antisari³, Gloria Falsone³, Mauro De Feudis³, and Valentina Brombin¹

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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

Shrub encroachment decreases soil inorganic carbon stocks in Mongolian grasslands

Shangshi Liu^{1,2}, Luhong Zhou¹, He Li¹, Xia Zhao¹, Yankun Zhu^{1,2}, Haihua Shen¹, and Jingyun Fang^{1,3}

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<https://meetingorganizer.copernicus.org/EGU2020/EGU2020-5304.html>

[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

**Organic carbon sequestration potential, rate and associated practices, as
observed in Swiss arable land**

Pascal Boivin, Xavier Dupla, Ophélie Sauzet, and Karine Gondret

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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

Empirical modelling of plant and soil carbon flux drivers under field conditions

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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

**Simulation of soil organic carbon stock and greenhouse gases emission from
Perennial Energy Crops cultivation cycle in Italy with ECOSSE model: from
establishment to removal**

**Enrico Martani¹, Marcello Pilla¹, Andrea Ferrarini¹, Stefano Amaducci¹, and
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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

**Geospatial modeling approaches for mapping topsoil organic carbon stock
in northern part of Mongolia**

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Winner of the Young researcher travel grant

[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

**Modelling soil carbon stocks in semi-natural and agro-ecosystems –
quantifying national scale impacts of the Anthropocene**

**Victoria Janes-Bassett¹, Jessica Davies¹, Richard Bassett¹, Dmitry
Yumashev¹, Ed Rowe², and Edward Tipping³**

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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC CARBON

Achievements and challenges of the modelling of soil organic carbon in a highly variable Mediterranean area

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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC and INORGANIC CARBON

Prediction of soil organic and inorganic carbon concentrations in Tunisian samples by mid-infrared reflectance spectroscopy using a French national library

Tiphaine Chevallier¹, Cécile Gomez^{2,3}, Patricia Moulin⁴, Imane Bouferra¹, Kaouther Hmaidi⁵, Dominique Arrouays⁶, Claudy Jolivet⁶, and Bernard Barthès

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[SSS9.7/BG1.16]

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC and INORGANIC CARBON

Anthropogenic impact on inorganic soil C: Impact of Irrigated Agriculture on Carbonates Dynamics in Semiarid Land

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Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

SOIL ORGANIC and INORGANIC CARBON

Contribution of inorganic carbon to CO₂ emissions under a Mediterranean agroforestry system

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Solicited contribution

Soil organic and inorganic carbon stocks and dynamics in agro-ecosystems: mechanisms, measurements and modelling strategies

Thank you very much for your participation!

The conveners as guest editors invite the authors to submit a manuscript on these or related topics, to the special issue:

Special Issue "Sustainable Agro-Ecosystem Management: Mechanisms, Measurements and Modelling Strategies with Special Emphasis to the Soil Properties"

A special issue of [Sustainability](#) (ISSN 2071-1050) IF 2.59, Q2.