

## EGU2020

### SSS2.5 Soil erosion and driving factors of soil carbon distribution: a worldwide threat

Convener: Leticia Gaspar | Co-conveners: Jay Le Roux, Jose Alfonso Gomez, Ivan Lizaga, Lionel Mabit, Ana Navas, Saidi Mkomwa, Ikenna Osumborogwu

**Online Chat Program:** Monday, **04 May, 16:15 - 18:00** (CEST) | 105 minutes | 10 presentations

<b>16:00</b>	Chat will be available 15 minutes before the session starts
<b>16:15</b>	WELCOME by conveners
<b>16:17</b>	D2148   EGU2020-5833 (Chairperson: Leticia Gaspar) <b>Soil Organic Carbon Distribution and Isotope Composition Response to Erosion in Cropland under Soybean/Maize Production</b> <b>Greg McCarty</b> , Xia Li
<b>16:27</b>	D2149   EGU2020-11147 (Chairperson: Leticia Gaspar) <b>Visual assessments and model estimations of soil erosion and relations to soil organic carbon</b> <b>Hakan Djuma</b> , Adriana Bruggeman, Marinos Eliades
<b>16:37</b>	D2150   EGU2020-3947 (Chairperson: Jay Le Roux) <b>Soil erosion and sediment transport in South Africa: an overview</b> John Boardman, <b>Ian Foster</b>
<b>16:47</b>	D2151   EGU2020-8802 (Chairperson: Jay Le Roux) <b>South Africa's agricultural dust sources and events from the MSG SEVIRI record</b> <b>Frank Eckardt</b> , Johanna Von Holdt, Nikolaus Kuhn, <b>Anthony Palmer</b> , Jonathan Murray
<b>16:57</b>	D2152   EGU2020-3913 (Chairperson: Jay Le Roux) <b>Determining Sub-Catchment Contributions to the Suspended Sediment load of the Tsitsa River, Eastern Cape, South Africa</b> <b>Laura Bannatyne</b> , Ian Foster, Ian Meiklejohn, Bennie van der Waal
<b>17:07</b>	D2153   EGU2020-1186 (Chairperson: Jay Le Roux) <b>Gully Initiation on the Quartzite Ridges of Ibadan, South West, Nigeria</b> <b>Olutoyin Fashae</b> , Rotimi Obateru, Adeyemi Olusola
<b>17:17</b>	D2156   EGU2020-494 (Chairperson: Lionel Mabit) <b>Are human activities main drivers of soil organic carbon losses in mountain rainfed agroecosystems?</b> <b>Ivan Lizaga</b> , Leticia Gaspar, Laura Quijano, Maria Concepción Ramos, Ana Navas
<b>17:27</b>	D2160   EGU2020-17676 (Chairperson: José Alfonso Gómez) <b>Lateral transport of SOC induced by water erosion in a Spanish agroecosystem</b> <b>Leticia Gaspar</b> , Lionel Mabit, Ivan Lizaga, Ana Navas
<b>17:37</b>	D2163   EGU2020-10027 (Chairperson: Iván Lizaga) <b>Erosion and sediment enrichment ratio in volcanic soils</b> <b>Ludmila La Manna</b> , César Mario Rostagno, Manuela Tarabini, Federico Gomez, Ana Navas
<b>17:47</b>	D2166   EGU2020-2228 (Chairperson: Jay Le Roux) <b>Quantitative assessment of gully erosion dynamics using a GIS implementation of Sidorchuks' DYNGUL model in Southern KwaZulu-Natal, South Africa</b> <b>Adel omran</b> , Dietrich Schroeder, Christian Sommer, Volker Hochschild, Aleksey Sidorchuk, Michael Maerker
<b>17:57</b>	GENERAL discussion
<b>18:00</b>	CLOSING by conveners

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All Contributions: 24 contributions

Display	Authors	Title	Code	Link
D2147	Laura Turnbull, John Wainwright	Soil erosion leads to significant mobilisation of terrestrial organic and inorganic carbon	EGU2020-11546	<a href="#">Soil erosion leads to significant mobilisation of terrestrial organic and inorganic carbon</a>
D2148	Greg McCarty, Xia Li	Soil Organic Carbon Distribution and Isotope Composition Response to Erosion in Cropland under Soybean/Maize Production	EGU2020-5833	<a href="#">Soil Organic Carbon Distribution and Isotope Composition Response to Erosion in Cropland under Soybean/Maize Production</a>
D2149	Hakan Djuma, Adriana Bruggeman, Marinos Eliades	Visual assessments and model estimations of soil erosion and relations to soil organic carbon	EGU2020-11147	<a href="#">Visual assessments and model estimations of soil erosion and relations to soil organic carbon</a>
D2150	John Boardman, Ian Foster	Soil erosion and sediment transport in South Africa: an overview	EGU2020-3947	<a href="#">Soil erosion and sediment transport in South Africa: an overview</a>
D2151	Frank Eckardt, Johanna Von Holdt, Nickolaus Kuhn, Anthony Palmer, Jonathan Murray	South Africa's agricultural dust sources and events from the MSG SEVIRI record	EGU2020-8802	<a href="#">South Africa's agricultural dust sources and events from the MSG SEVIRI record</a>
D2152	Laura Bannatyne, Ian Foster, Ian Meiklejohn, Bennie van der Waal	Determining Sub-Catchment Contributions to the Suspended Sediment load of the Tsitsa River, Eastern Cape, South Africa	EGU2020-3913	<a href="#">Determining Sub-Catchment Contributions to the Suspended Sediment load of the Tsitsa River, Eastern Cape, South Africa</a>
D2153	Olutoyin Fashae, Rotimi Obateru, Adeyemi Olusola	Gully Initiation on the Quartzite Ridges of Ibadan, South West, Nigeria	EGU2020-1186	<a href="#">Gully Initiation on the Quartzite Ridges of Ibadan, South West, Nigeria</a>
D2154	Shouqin Sun, Genxu Wang, Xinbao Zhang	Accumulation of soil carbon and nutrients along a 127-yr soil chronosequence in the Hailuoguo Glacier retreat area	EGU2020-3065	<a href="#">Accumulation of soil carbon and nutrients along a 127-yr soil chronosequence in the Hailuoguo Glacier retreat area</a>
D2155	Jianlin Zhao	Coupling of land use change, soil erosion and carbon dynamic on the Chinese Loess Plateau	EGU2020-6349	<a href="#">Coupling of land use change, soil erosion and carbon dynamic on the Chinese Loess Plateau</a>
D2156	Ivan Lizaga, Leticia Gaspar, Laura Quijano, Maria Concepción Ramos, Ana Navas	Are human activities main drivers of soil organic carbon losses in mountain rainfed agroecosystems?	EGU2020-494	<a href="#">Are human activities main drivers of soil organic carbon losses in mountain rainfed agroecosystems?</a>
D2157	Estela Nadal Romero, Pedro Sánchez Navarrete, Makki Khorchani, Luis Miguel Medrano-Moreno, Teodoro Lasanta	Soil organic carbon and soil total nitrogen stocks, soil quality and vegetation composition during natural revegetation processes in a Mediterranean mid-mountain area	EGU2020-18475	<a href="#">Soil organic carbon and soil total nitrogen stocks, soil quality and vegetation composition during natural revegetation processes in a Mediterranean mid-mountain area</a>
D2158	Maria Concepción Ramos	Particulate, mineral fraction and water extractable organic carbon in the soil and in the sediments transported by runoff	EGU2020-3108	<a href="#">Particulate, mineral fraction and water extractable organic carbon in the soil and in the sediments transported by runoff</a>
D2159	Jessica Vasil'chuk, Leticia Gaspar, Ivan Lizaga, Ana Navas	Temporal variability in soil organic carbon in response to erosion in mountain agricultural landscapes	EGU2020-10221	<a href="#">Temporal variability in soil organic carbon in response to erosion in mountain agricultural landscapes</a>
D2160	Leticia Gaspar, Lionel Mabit, Ivan Lizaga, Ana Navas	Lateral transport of SOC induced by water erosion in a Spanish agroecosystem	EGU2020-17676	<a href="#">Lateral transport of SOC induced by water erosion in a Spanish agroecosystem</a>
D2161	Alejandra Castillo, Leticia Gaspar, Ivan Lizaga, Gerd Dercon, Ana Navas	Linking soil C pools and N in radiotraced soils of Grey lake area (Torres del Paine, Chilean Patagonia)	EGU2020-5593	<a href="#">Linking soil C pools and N in radiotraced soils of Grey lake area (Torres del Paine, Chilean Patagonia)</a>
D2162	Michele Nuñez-Quiroga, Edson Ramírez, Gerd Dercon, Ana Navas	Distribution of nutrient pools in recently formed soils of Andean high wetlands (Huayna-Potosí, Bolivia)	EGU2020-9621	<a href="#">Distribution of nutrient pools in recently formed soils of Andean high wetlands (Huayna-Potosí, Bolivia)</a>
D2163	Ludmila La Manna, César Mario Rostagno, Manuela Tarabini, Federico Gomez, Ana Navas	Erosion and sediment enrichment ratio in volcanic soils	EGU2020-10027	<a href="#">Erosion and sediment enrichment ratio in volcanic soils</a>
D2164	Andreas Kaiser, Michael Geißler, Jay Le Roux, Marike Stander, George van Zijl, Jussi Baade	Simulating heavy rainfall events for parameterizing a first application of the physically based soil erosion model EROSION3D in South Africa	EGU2020-18155	<a href="#">Simulating heavy rainfall events for parameterizing a first application of the physically based soil erosion model EROSION3D in South Africa</a>
D2165	Liberty Lazarus Orapine Mgbanyi, Matthew Johnson, Colin Thorne	Pragmatic, fast and easy to use Model for Predicting Susceptibility to Concentrated Flow Erosion in a GIS in data-sparse regions	EGU2020-1208	<a href="#">Pragmatic, fast and easy to use Model for Predicting Susceptibility to Concentrated Flow Erosion in a GIS in data-sparse regions</a>
D2166	Adel omran, Dietrich Schroeder, Christian Sommer, Volker Hochschild, Aleksey Sidorchuk, Michael Maerker	Quantitative assessment of gully erosion dynamics using a GIS implementation of Sidorchuks' DYNGUL model in Southern KwaZulu-Natal, South Africa	EGU2020-2228	<a href="#">Quantitative assessment of gully erosion dynamics using a GIS implementation of Sidorchuks' DYNGUL model in Southern KwaZulu-Natal, South Africa</a>
D2167	Mario Kirchhoff, Lars Engelmann, Lutz Leroy Zimmermann, Irene Marzoff, Manuel Seeger, Ali Ait Hssaine, Johannes B. Ries	Soil Degradation in Argan Woodlands, South Morocco	EGU2020-11249	<a href="#">Soil Degradation in Argan Woodlands, South Morocco</a>
D2168	Adeyemi Olusola, Samuel Yakubu	Gully Erosion: A Threat to Livable Cities in Developing Countries	EGU2020-831	<a href="#">Gully Erosion: A Threat to Livable Cities in Developing Countries</a>
D2169	Eric Lutete Landu, Guy Ilombe Mawe, Charles Bielders, Fils Makanzu Imwangana, Olivier Dewitte, Jean Poesen, Matthias Vanmaercke	Understanding the effectiveness of measures aiming to stabilize urban mega gullies in Kinshasa	EGU2020-10739	<a href="#">Understanding the effectiveness of measures aiming to stabilize urban mega gullies in Kinshasa</a>
D2171	Wen Wei Chang, Chao Yuan Lin	A Study of Sediment Yield in the Deji Reservoir Watershed Using Risk Analysis	EGU2020-9864	<a href="#">A Study of Sediment Yield in the Deji Reservoir Watershed Using Risk Analysis</a>