

# MICROBIAL ROLE IN N<sub>2</sub>O-NO<sub>2</sub> PRODUCTION AND CH<sub>4</sub> OXIDATION UNDER ACTIVE HYPOGENIC SETTINGS

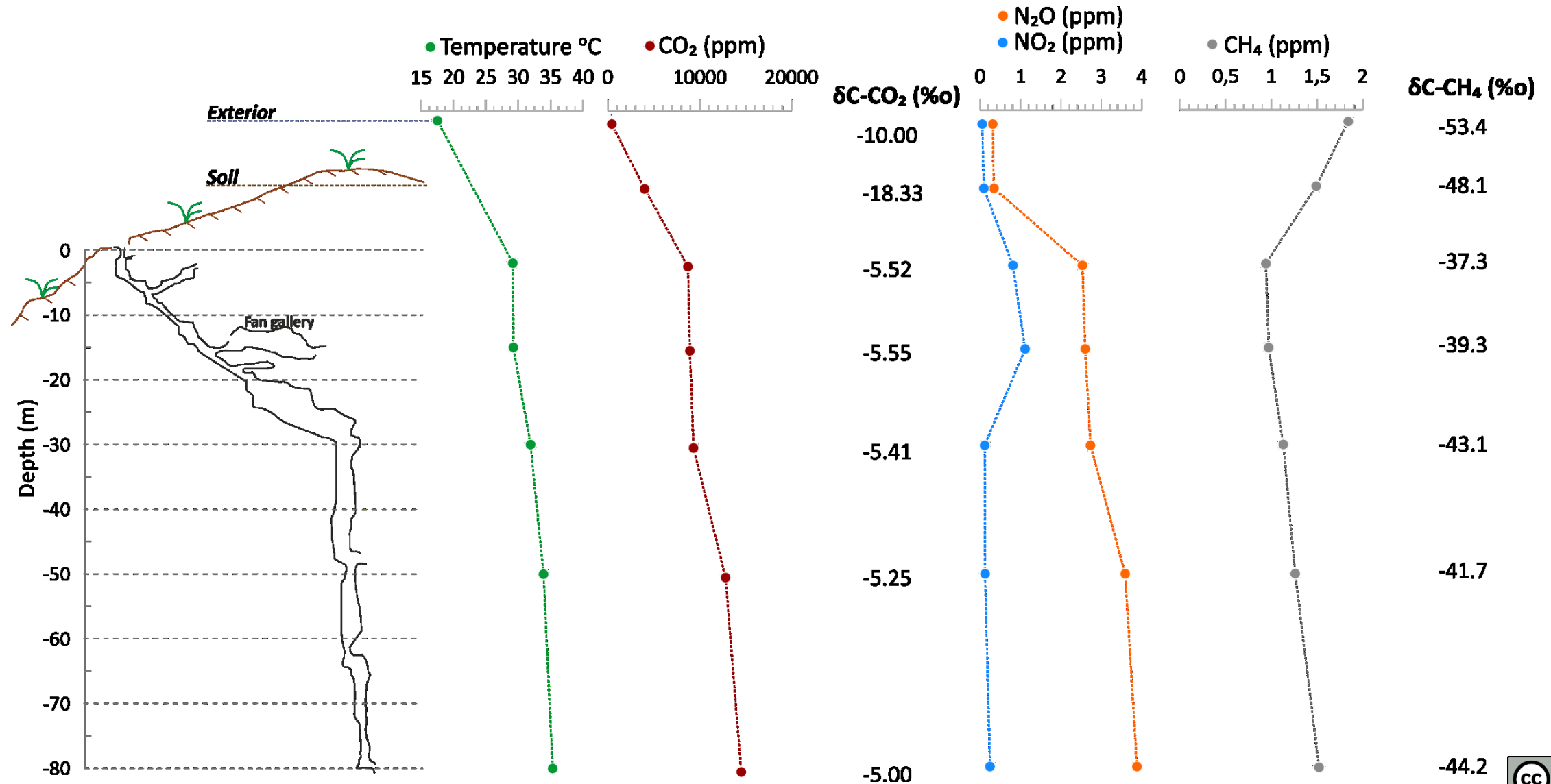
**T. MARTIN-POZAS<sup>1</sup>, S. CUEZVA<sup>2</sup>, V. JURADO<sup>3</sup>, R. PEREZ-LOPEZ<sup>4</sup>, C. SAIZ-JIMENEZ<sup>3</sup>, J.M. CALAFORRA<sup>5</sup>, S. SANCHEZ-MORAL<sup>1</sup>, A. FERNANDEZ-CORTES<sup>5</sup>**

<sup>1</sup>National Museum of Natural Sciences, MNCN-CSIC ([tmpozas@mncn.csic.es](mailto:tmpozas@mncn.csic.es)).<sup>2</sup>University of Antwerp, Research group Plants and Ecosystems.<sup>3</sup>Institute of Natural Resources and Agricultural Biology, IRNAS-CSIC.<sup>4</sup>Geological Hazard Division, Geological Survey of Spain.<sup>5</sup>University of Almeria, Research group Water Resources and Environmental Geology, Spain

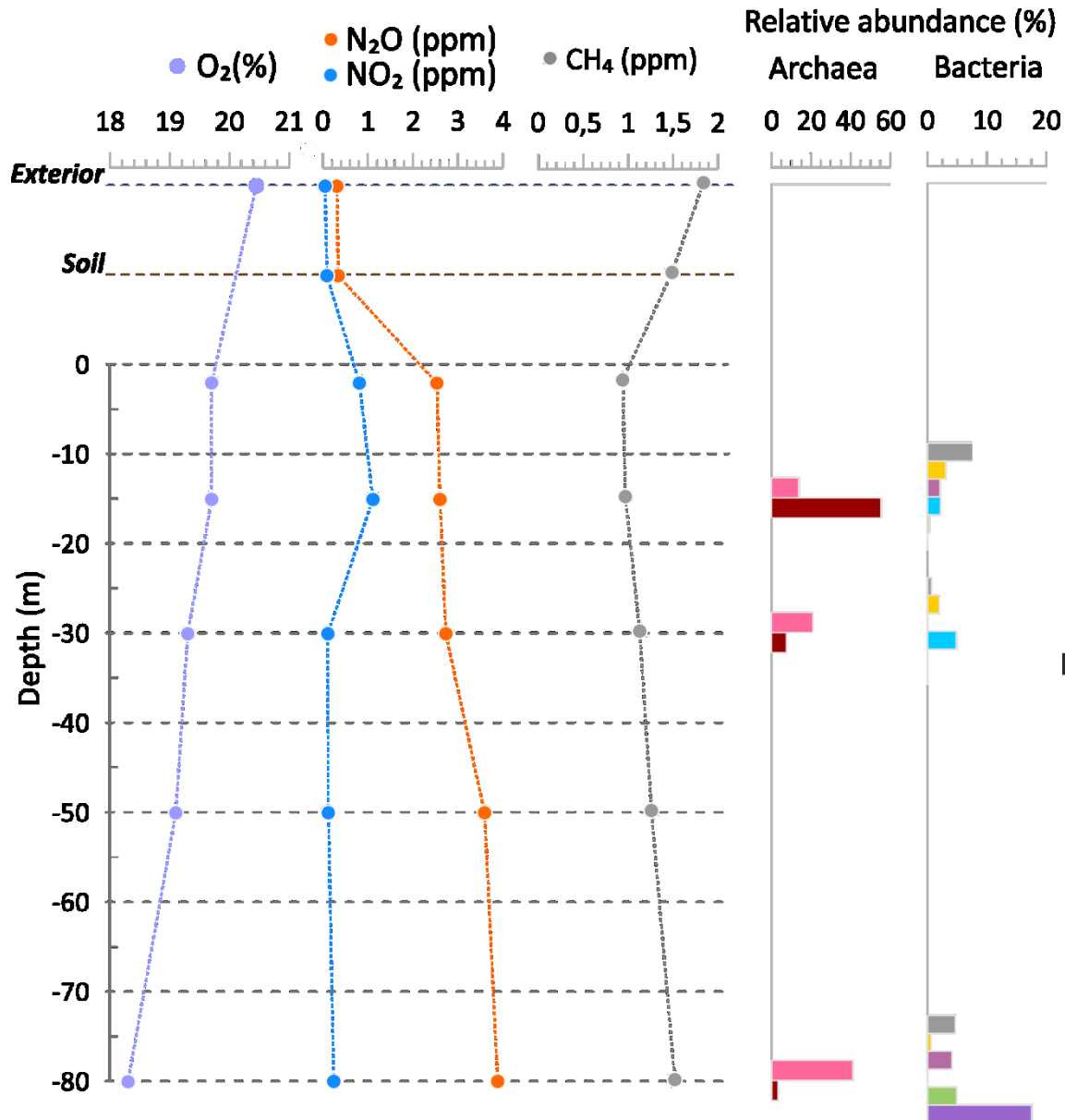
**EGU General Assembly, 08:30-10:15, 5 May 2020  
Session BG1.6: EGU2020-21141**



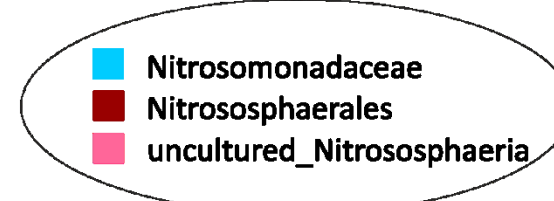
# GASEOUS COMPOSITION OF SUBTERRANEAN ATMOSPHERE IN VAPOR CAVE (ALHAMA DE MURCIA, SPAIN)



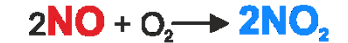
# MICROBIAL ROLE IN N<sub>2</sub>O-NO<sub>2</sub> PRODUCTION AND CH<sub>4</sub> OXIDATION



## Ammonia Oxidation



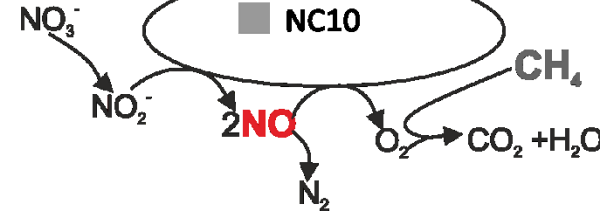
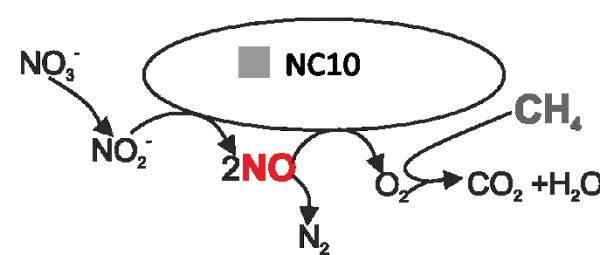
## Abiotic NO oxidation



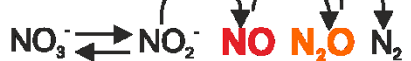
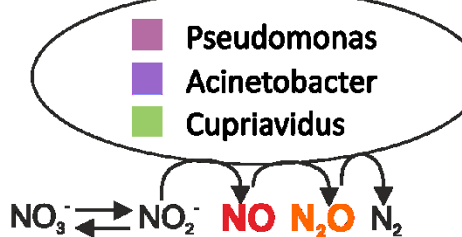
## Commamox/Nitrification



## Denitrifying Methane-Oxidation



## Denitrification



## Ammonia Oxidation

