



## Validation of carbon stock modeling in a Mediterranean area

Ciro Gardi (1) and Claudio Colombo (2)

(1) Joint Research Center EU - institute for Environment and Sustainability ([ciro.gardi@jrc.ec.europa.eu](mailto:ciro.gardi@jrc.ec.europa.eu)), (2) Dip. Scienze Animali Vegetali e dell'Ambiente, Università del Molise

Soil organic carbon (SOC) has been identified as the main global terrestrial carbon reservoir, but considerable uncertainty remains as to regional SOC variability and the distribution of C between vegetation and soil. Several modeling approaches have been proposed so far. The objective of the present study is to compare and validate the results of the maps of organic carbon in topsoil in Europe, produced by JRC in 2003, using a series of data collected within a NUTS 3 territory of Southern Italy.