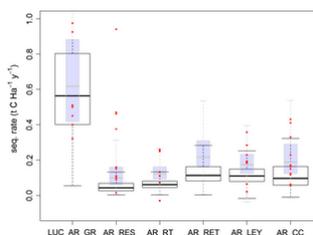


Alternative management practices (AMP) - Using soils to mitigate carbon emissions

JRC scientists find that making alternative uses of arable land could potentially help capture significant amounts of carbon from the atmosphere. They investigated the potential carbon sequestration by six of the most representative agricultural management practices on arable soils. The scientists have used a high resolution pan-European simulation platform to assess the potential impact of those practices on SOC stock levels of arable soil under two IPCC climate change scenarios to 2100: arable to grassland conversion (and vice versa), straw incorporation, reduced tillage, straw incorporation with reduced tillage, ley cropping and cover crops. According to the results of three policy simulations, the allocation of just 12% of arable land to different combinations of agricultural management practices would produce significant mitigation effects, which would be sufficient to reach the EU's target of cutting its emissions to 20% below of the 1990 levels by 2020. **Data available:** The projected SOC baseline content (t C ha⁻¹ in 0-30 cm depth) of the arable land, where the following alternative management practices (AMP) are applied: AR_GR_LUC = conversion from arable to grassland; AR_RES = crop residue management; AR_RT = reduced tillage; AR_RET = crop residue + reduced tillage; AR_LEY = ley in rotation; AR_CC = cover crops.



<http://eusoils.jrc.ec.europa.eu/library/Themes/SOC/CAPRESE/>

JRC Activities at 20th WCSS

The European Commission, Joint Research Centre organised a booth stand in the 20th World Congress of Soil Science (20WCSS). The stand was visited by more than 1,500 scientists. During the 6 days event, JRC has distributed 1,000 posters of the World Soil Distribution, 1,000 books of the World Reference Group WRB soil classification latest edition, 80 Atlases, 500 copies of publications, 200 DVDs (including maps) and around 100 scientific reports. Find all the stand material and the presentations given by the JRC staff: <http://eusoils.jrc.ec.europa.eu/events/Conferences/20WCSS.html>



Launch of European Soil Partnership

In the framework of the Global Soil Partnership (GSP), the process of establishing the regional soil partnership for Europe is taking place. This new European Soil Partnership (ESP) has been formally established during the last Global Soil Week in October 2013 and is aiming towards federating stakeholders and institutions in Europe willing to adopt the principles of the World Soil Charter. The European Commission, together with the institutions represented in the steering committee of the ESP, has taken up the lead in organizing this new European initiative. The aim is to bring together the various scattered networks and soil related activities into a common framework, open to all institutions and stakeholders willing to actively contribute to sustainable soil management in Europe. As a first step the JRC convened the first plenary meeting of the ESP, 21-22 May 2014. The meeting was open to all interested stakeholders and institutions and set the foundations for the future activities of the ESP. This meeting was organized in combination to the 2014 EIONET NRC Soil meeting that provided an update on where soil fits within the EEA multi-annual work programme <http://eusoils.jrc.ec.europa.eu/InternationalCooperation/ESP/LaunchESP.html>

Summer of Soil

Summer of Soil is a multi-disciplinary accelerator initiative designed to awaken and inspire a collaborative movement to rebuild and maintain living soils. 9 - 12 July 2014 in Järna, Sweden. <http://www.summerofsoil.se/>

More Details

Download the Newsletter: [PDF Format](#) or [HTML Format](#). **Feedback:** panos.panagos@jrc.ec.europa.eu

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