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Monitoring peat

coverage has become
important in

calculating soil carbon
stocks due to the

relatively high carbon
density of peat and

organic-rich soils.

This is particularly
important for Ireland

(and other Northern

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European countries), where some 16 % of the land surface is covered by peat bog.

METHODS FOR MONITORING SOIL CARBON STOCK CHANGES AND GHG ...

peatlands can be hard to detect without soil sampling. Known peat soils hold an

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estimated 650 billion tonnes of carbon on only 3 percent of the Earth's land area – a carbon store that is more than half of the carbon in the atmosphere.

Peatlands thus play a critical role in the global carbon cycle and in climate regulation, as well as delivering

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Soil carbon management | In NatureScot

Peatlands are wetland ecosystems that accumulate plant material to form layers of peat soil up to 60 feet thick. They can store, on average, 10 times more carbon dioxide (CO₂), the leading ...

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Monitoring And Remote Sensing Data: Monitoring ...

Soil carbon pools Soil carbon is measured through collection of samples extracted using a soil auger. One core is taken at (or close to) each subplot center. Soil/peat samples are collected at the

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midpoints of each plot
at depth intervals of
0–15 cm, 15–30 cm,
30–50 cm, 50–100 cm
and 100–300 cm, and
at 200 cm intervals

Environmental Monitoring and Peat Assessment Using

...

- Monitoring of project
soil carbon stock
changes and GHG

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emissions. • Fire

Reduction Premium:

A rapid and

conservative

alternative approach

to acknowledge peat

fire emission

reductions as a result

of rewetting without

having to develop

complex baseline

scenarios for peat

fires.

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Innovation . Networks
[www.litbang.pertanian
.go.id](http://www.litbang.pertanian.go.id) Global

Symposium on soil
organic carbon Rome,
Italy, 21-23 March

2017 Fahmuddin

Agus, Maswar,

Wahyunto, Anny

Mulyani, Neneng L.

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Nurida, Ratri Ariani,

Fitri Widiastuti

Indonesian Agency

for Agricultural

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Development Peat

soil carbon monitoring

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Soils and Land Use |

UK Centre for

Ecology &

Hydrology

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The Carbon Farming
Monitoring And
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Indonesia
the changes needed at
the farm and

landscape level in
order to sequestrate
more carbon in
agricultural soils,
including co-designing
solutions with local
stakeholders,
monitoring and
certification of soil

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carbon as well as
developing and

scaling out

mechanisms

(including financial
tools) for agricultural
SCS.

**Peatlands, the
carbon cycle and
climatic change ...**

The site is also ideal
for researchers
investigating soil

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carbon dynamics, soil hydraulics and the impact of microbial communities on these processes. Contact:

Sabine Reinsch[/collapse][collapsed

title=The Plynlimon

Catchments - an open air laboratory]The

Plynlimon catchments

in central Wales are

among the most

important intensively

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studied long-term
research basins in the
UK.

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**Protocols for the
measurement,
monitoring, and
reporting ...**

Thematic map - The
map shows the
distribution of carbon
and peatland classes
across the whole of
Scotland. It gives a

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value to indicate the likely presence of

carbon-rich soils,

deep peat and priority

peatland habitat for

each individually-

mapped area, at a

coarse scale.

**Peat soil carbon
monitoring and
management in
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monitoring soil

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carbon: the state of the art. Why is it necessary to monitor soil carbon? There are several reasons, both old and new. In the last 150 years, soil organic matter (which is 50-60% carbon) has gained greater acknowledgement as a vital ingredient of soil health.

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**Monitoring soil
carbon —
Sustainable Soils
Alliance**

This module provides approaches for monitoring of greenhouse gas (GHG) emissions from undisturbed, degraded and rewetted domed peatland. The module

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addresses GHG

emissions from the

soil organic (peat)

carbon pool due to

drainage, rewetting

and fire. In

combination with

Modules BL-PEAT

and E-BPB this

module provides

conservative

procedures

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Agus, Maswar,

Wahyunto, Anny

Mulyani, Neneng L.

Nurida, Ratri Ariani,

Fitri Widiastuti

1 Indonesian Agency

for Agricultural

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Development, at Jl.

Tentara Pelajar No.

12, Bogor 16114,

Indonesia Abstract

The high carbon (C)

stock of 14.9 million

ha of Indonesian

peatland ...

Carbon and

Peatland 2016 map |

NatureScot

We were also able to

demonstrate that the

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A new model could be used to reduce the costs of soil

monitoring by reducing the number of ground-based measurements that were required. We extended and applied a survey optimization procedure (Marchant et al., 2013) and found that the ground-based measurements

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could be mostly
focussed where the
radiometric K was low
and the peat depth
uncertain (Figure ...

METHODS FOR MONITORING SOIL CARBON STOCK CHANGES AND GHG ...

Large amounts of
carbon, fixed from the
atmosphere into plant

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tissues through photosynthesis, are locked away in peat soils, representing a valuable global carbon store. A lack of awareness of the benefits of peatlands means that they have been severely overexploited and damaged as a result of actions including drainage, agricultural

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conversion, burning
and mining for fuel,
among others.

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**Carbon and
peatland 2016 map |
Scotland's soils**

An integrated soil-
carbon measurement
and monitoring
system called the
DeepC System will be
developed by the Soil
Health Institute. It is

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expected to provide standardized carbon-sequestration monitoring needs for carbon markets. The system will feature in-field measurement tools, ...

**Soil-carbon
measure, monitoring
in development |
Agri-View ...**

Peatlands contain the

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highest stock of soil carbon in their peat deposits. Peat in

Indonesia

Scotland's wetlands is also a major carbon store. NatureScot activities include:

developing advice on peatland and wetland habitat management to take account of their carbon storage as well as biodiversity value

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Peatlands and climate change | IUCN

The map shows the areas of peat referred to in Table 1 in Scottish Planning Policy (SPP) – carbon-rich soil, deep peat and priority peatland habitat. On the map, the top two classes (1 and 2) taken together

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identify the nationally important resource:

Class 1. Nationally

important carbon-rich

soils, deep peat and

priority peatland

habitat*

How the Loss of Peat Lands Affects Greenhouse Gas Buildup ...

Environmental

monitoring consists of

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a suite of techniques including greenhouse gas monitoring, soil pore water sampling for pH, conductivity and cation and anion concentrations all of which are modelled against data collected continuously by dataloggers to provide ecosystem responses to climate change and restoration.

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