

Side Event at UNFCCC COP23

“Wetlands, Peatlands, Satellites”



SWOS
Satellite-based Wetland
Observation Service

Kathrin Weise
<http://swos-service.eu>



Leticia Jurema
<https://life-peat-restore.eu>

Saturday, **11 November 2017**
from **4:00 pm to 5:30 pm**
at **EU Pavillon (Room Tallin)**



Melting Process, The Nenets Autonomous Okrug / Komi Republic,
Sentinel-1A, descending orbit, VV polarization,
R: 27-05-2017, G: 08-06-2017, B: 20-06-2017
(©Contains modified Copernicus Sentinel-1 data 2017)

0 10 20 km

Abstract

Wetlands including peatlands are one of the fastest declining ecosystems, while they are hot spots of biodiversity and provide valuable ecosystem services; such as water supply, protection against floods and droughts, and climate regulation through carbon storage in particular in peatlands.

EU cannot reach Paris Agreement targets without proper management & restoration of peatland habitats.

The H2020 project "Satellite based Wetland Observation Service (SWOS)" developed a service and free available tools for the local to global satellite based monitoring of the ecological character of wetlands, the monitoring of restoring measures in degraded peatlands or for wetland inventory and delineation as it can be applied e.g. for SDG 6.6.1 or Ramsar reporting.

Restoring more than 5,000 ha of degraded peatlands the LIFE project "Peat restore" is contributing to the implementation and development of EU Climate Policy and Paris Agreement goals, by providing data on GHG emissions, supporting calculations and reporting for national and EU wide GHG balances.

The side event will invite to the Satellite based Wetland Observation service (SWOS) with its free tools and portals for wetland/peatland monitoring and services for reporting obligations like SDG 6.6.1 and Ramsar. It will inform about wetland/peatland frameworks, Ramsar priorities for peatlands and how the Project "Peatland Restore" will provide valuable estimations to national decision makers on how much GHG can be mitigated under different scenarios.

Links:

<http://swos-service.eu>

<https://life-peat-restore.eu>

<http://www.ramsar.org/themes/peatlands>

Short-term changes of a plantation in the buffer and transition zone of UNESCO Man and the Biosphere Reserve, the Giam Siak Kecil-Bukit Batu Biosphere, Sentinel-1A, descending orbit, VV polarization, R: 2016-01-10, G: 2016-02-03, B: 2016-02-15
(©Contains modified Copernicus Sentinel-1 data 2016)

0 5 10 km

Agenda

Presentations

Tom Kirschey	NABU	Monitoring of northern and eastern European peatland habitats within LIFE Peat Restore
Tobias Salathé	Ramsar Convention on Wetlands	Ramsar Priorities for Peatlands
Kathrin Weise	Jena-Optronik GmbH	SWOS – the Satellite based Wetland Observation Service
Jonas Franke	Remote Sensing Solution GmbH	SWOS Products and the Wetlands community portal
Adrian Strauch	University of Bonn	SWOS in an international context
Kathrin Weise	Jena-Optronik GmbH	Peatlands from Space

Presentations / Discussion

Bettina Hedden-Dunkhorst	German Federal Agency for Nature Conservation (BfN)	Other peatland initiatives around the globe
Andres Jaadla	European Committee of the Regions (CoR) member / Member of Rakvere City Council (Estonia)	Satellite use for land monitoring: the perspective of regions and cities

Questions / Discussion

Short-term changes in Tver Region, Sentinel-1A, descending orbit, VV polarization, R: 2017-01-09, G: 2017-03-10, B: 2017-04-15
(©Contains modified Copernicus Sentinel-1 data 2017)

0 5 10 km