

Supplementary Material

Table S1. The list of selected articles for systematic review.

Published year	Title
2001	Effects of Land-Use Change in Tropical Peat Soil on the Microbial Population and Emission of Greenhouse Gases The carbon content characteristics of tropical peats in Central Kalimantan, Indonesia: Estimating their spatial variability in density A Late Pleistocene and Holocene pollen and charcoal record from peat swamp forest, Lake Sentarum wildlife reserve, West Kalimantan, Indonesia
2002	The amount of carbon released from peat and forest fires in Indonesia during 1997
2003	Seasonal changes of CO ₂ , CH ₄ and N ₂ O fluxes in relation to land-use change in tropical peatlands located in coastal area of South Kalimantan
2004	A record of Late Pleistocene and Holocene carbon accumulation and climate change from an equatorial peat bog (Kalimantan, Indonesia): Implications for past, present and future carbon dynamics Runaway fires, smoke-haze pollution, and unnatural disasters in Indonesia ENVISAT multisensor data for fire monitoring and impact assessment Environmental change and peatland forest dynamics in the Lake Sentarum area, West Kalimantan, Indonesia Biomarker signature in tropical wetland: Lignin phenol vegetation index (LPVI) and its implications for reconstructing the paleoenvironment
2005	Hydrology of tropical wetland forests: Recent research results from Sarawak peatswamps Carbon fluxes from a tropical peat swamp forest floor Potential health impacts associated with peat smoke: A review Effect of changing groundwater levels caused by land-use changes on greenhouse gas fluxes from tropical peat lands The stratigraphy and fire history of the Kutai Peatlands, Kalimantan, Indonesia Fire, livelihoods, and environmental change in the Middle Mahakam Peatlands, East Kalimantan Controlled burning in peat lands owned by small farmers: A case study in land preparation Fighting future fires with fairness Factors influencing methane emission from peat soils: Comparison of tropical and temperate wetlands Conservation and sustainable use of peat swamp forests by local communities in South East Asia Greenhouse gas emissions from tropical peatlands of Kalimantan, Indonesia Energy balance of a tropical peat swamp forest in Central Kalimantan, Indonesia

2006	Influences of edaphic factors on the distribution and abundance of a rare palm (<i>Cyrtostachys renda</i>) in a peat swamp forest in eastern Sumatra, Indonesia
	Effects of environmental variations on CO ₂ efflux from a tropical peatland in eastern sumatra
	Effects of agricultural land-use change and forest fire on N ₂ O emission from tropical peatlands, Central Kalimantan, Indonesia
	Interrelationships between hydrology and ecology in fire degraded tropical peat swamp forests
	Tropical peatland water management modelling of the air hitam laut catchment in indonesia
2007	Shifting cultivation in peatlands
	Effect of sulfuric acid discharge on river water chemistry in peat swamp forests in central Kalimantan, Indonesia
	Development of the Indonesian and Malaysian fire danger rating systems
	Microclimate conditions of the developed peatland in Central Kalimantan
	Carbon dioxide balance of a tropical peat swamp forest in Kalimantan, Indonesia
2008	Long-time risk of groundwater/drinking water pollution with sulphuric compounds beneath burned peatlands in Indonesia
	Relevance of peat draining rivers in central Sumatra for the riverine input of dissolved organic carbon into the ocean
	Rural livelihoods and burning practices in Savanna landscapes of Nusa Tenggara Timur, Eastern Indonesia
	Determination of the amount of carbon stored in Indonesian peatlands
	Carbon dioxide and methane fluxes in drained tropical peat before and after hydrological restoration
2009	Climate regulation of fire emissions and deforestation in equatorial Asia
	Peat-water interrelationships in a tropical peatland ecosystem in Southeast Asia
	Emergence and behaviors of acid-tolerant <i>Janthinobacterium</i> sp. that evolves N ₂ O from deforested tropical peatland
	Requirement for particular seed-borne fungi for seed germination and seedling growth of <i>Xyris complanata</i> , a pioneer monocot in topsoil-lost tropical peatland in Central Kalimantan, Indonesia
	Land clearing and the biofuel carbon debt
	A remote sensing case study of land use/land cover changes in the Peatlands of Muaro Jambi, Indonesia, between 1989-2007
	Preparation of activated carbon from peat
	Derivation of burn scar depths and estimation of carbon emissions with LIDAR in Indonesian peatlands
	Restoration ecology of lowland tropical peatlands in Southeast Asia: Current knowledge and future research directions
	Controls on the carbon balance of tropical peatlands
	Biofuel plantations on forested lands: Double jeopardy for biodiversity and climate; [Plantaciones de biocombustible en terrenos boscosos: Doble peligro para la biodiversidad y el clima]
	Effect of sago palm (<i>Metroxylon sagu</i> Rottb.) cultivation on the chemical properties of soil and water in tropical peat soil ecosystem
	Regeneration and restoration of degraded peat swamp forest in Berbak NP, Jambi, Sumatra, Indonesia

	The contribution of CHRIS/PROBA data for tropical peat swamp landscape discrimination purposes
	Methane and CO ₂ fluxes from an Indonesian peatland used for sago palm (<i>Metroxylon sagu</i> Rottb.) cultivation: Effects of fertilizer and groundwater level management
	View angle effects on the discrimination of some land cover types in a tropical peat swamp forest environment
	Carbon storage in mangrove and peatland ecosystems: A preliminary account from plots in Indonesia
2010	Spectral variability and discrimination assessment in a tropical peat swamp landscape using CHRIS/PROBA data
	Planning hydrological restoration of peatlands in Indonesia to mitigate carbon dioxide emissions
	Detection of fire impact and vegetation recovery over tropical peat swamp forest by satellite data and ground-based NDVI instrument
	Salkowski's reagent test as a primary screening index for functionalities of rhizobacteria isolated from wild dipterocarp saplings growing naturally on medium-strongly acidic tropical peat soil
	Vegetation correlates of gibbon density in the peat-swamp forest of the Sabangau Catchment, Central Kalimantan, Indonesia
	Status of peatland degradation and development in Sumatra and Kalimantan
	Peat swamp forest supports high primate densities on Siberut Island, Sumatra, Indonesia
	Current and future CO ₂ emissions from drained peatlands in Southeast Asia
	Global fire emissions and the contribution of deforestation, savanna, forest, agricultural, and peat fires (1997-2009)
	Analysis of peatland development and degradation processes in Jambi, Indonesia
2011	Combining ALOS-PALSAR imagery with field water level measurements for flood mapping of a tropical floodplain
	Hot spots of confusion: Contested policies and competing carbon claims in the peatlands of central Kalimantan, Indonesia
	Monitoring the effect of restoration measures in Indonesian peatlands by radar satellite imagery
	Nitrous oxide emission derived from soil organic matter decomposition from tropical agricultural peat soil in central Kalimantan, Indonesia
	Greenhouse gas fluxes: Effects of physical conditions
	Deforestation projections for carbon-rich peat swamp forests of Central Kalimantan, Indonesia
	Carbon emissions: Loophole in forest plan for Indonesia
	Peat swamp forest avifauna of Central Kalimantan, Indonesia: Effects of habitat loss and degradation
	ICESat/GLAS data as a measurement tool for peatland topography and peat swamp forest biomass in Kalimantan, Indonesia
	Effect of repeated fires on land-cover change on peatland in southern Central Kalimantan, Indonesia, from 1973 to 2005
	Global and regional importance of the tropical peatland carbon pool
	Development and carbon sequestration of tropical peat domes in south-east Asia: Links to post-glacial sea-level changes and Holocene climate variability
	Assessment of ALOS PALSAR 50 m orthorectified FBD data for regional land cover classification by support vector machines
	Dynamics of fire plumes and smoke clouds associated with peat and deforestation fires in Indonesia

2012	<p>Aboveground biomass estimation of tropical peat swamp forests using SAR and optical data</p> <p>Flood occurrence mapping of the middle Mahakam lowland area using satellite radar</p> <p>Indonesia's REDD+ pact: Saving imperilled forests or business as usual?</p> <p>Peatland degradation and conversion sequences and interrelations in Sumatra</p> <p>Hyperspectral data application for peat forest monitoring in central Kalimantan, Indonesia</p> <p>Diffusion GHG fluxes at tropical peatland drainage canal water surfaces</p> <p>Relationships between ground water level and CO₂ emission tropical peatland in Indonesia</p> <p>REDDcalculator.com: A web-based decision-support tool for implementing Indonesia's forest moratorium</p> <p>A very real and practical contribution? Lessons from the Kalimantan Forests and Climate Partnership</p> <p>Carbon dioxide emissions from an Acacia plantation on peatland in Sumatra, Indonesia</p> <p>Fire, drought and El Niño relationships on Borneo (Southeast Asia) in the pre-MODIS era (1980-2000)</p> <p>Modeling aboveground biomass in tropical forests using multi-frequency SAR data-A comparison of methods</p> <p>Global extinctions of freshwater fishes follow peatland conversion in Sundaland</p> <p>Does Indonesia's REDD+ moratorium on new concessions spare imminently threatened forests?</p> <p>Emission reduction options for peatlands in the Kubu Raya and Pontianak districts, West Kalimantan, Indonesia</p> <p>Committed carbon emissions, deforestation, and community land conversion from oil palm plantation expansion in West Kalimantan, Indonesia</p> <p>Effect Of Groundwater Level on Soil Respiration In Tropical Peat Swamp Forests</p> <p>Effects of disturbances on the carbon balance of tropical peat swamp forests</p> <p>Application of classification algorithms in data mining for hotspots occurrence prediction in Riau province Indonesia</p> <p>A cost-efficient method to assess carbon stocks in tropical peat soil</p> <p>Artificial Bird Perches for the Regeneration of Degraded Tropical Peat Swamp Forest: A Restoration Tool with Limited Potential</p>
2013	<p>Characteristics of fire-generated gas emission observed during a large peatland fire in 2009 at Kalimantan, Indonesia</p> <p>Induction of biofilm formation in the betaproteobacterium Burkholderia unamae CK43B exposed to exogenous indole and gallic acid</p> <p>Multi-temporal airborne LiDAR-survey and field measurements of tropical peat swamp forest to monitor changes</p> <p>Post-fire vegetation response as a proxy to quantify the magnitude of burn severity in tropical peatland</p> <p>High-resolution global maps of 21st-century forest cover change</p> <p>Assessment of biomass open burning emissions in Indonesia and potential climate forcing impact</p> <p>Trees are major conduits for methane egress from tropical forested wetlands</p> <p>Application of hyperspectral data for estimating leaf water potential and peatland ground-water level in Indonesia.</p> <p>Oil palm plantations and transboundary haze: Patronage networks and land licensing in Indonesia's peatlands</p>

2014

Quantifying dynamics in tropical peat swamp forest biomass with multi-temporal LiDAR datasets
Characterizing forest degradation using multiple sar approaches: Case study of tropical peatland forests in sumatera, Indonesia
Subsidence estimation of the peatland forest in the central Kalimantan using the PALSAR time series differential interferometry
Peatland conversion and degradation processes in insular southeast asia: A case study in Jambi, Indonesia
Threatened predator on the equator: Multi-point abundance estimates of the tiger *Panthera tigris* in central Sumatra
The effect of ENSO on rainfall characteristics in the tropical peatland areas of Central Kalimantan, Indonesia
Seed rain into a degraded tropical peatland in Central Kalimantan, Indonesia
Deep instability of deforested tropical peatlands revealed by fluvial organic carbon fluxes
Predictive models for hotspots occurrence using decision tree algorithms and logistic regression
Modelling effects of seasonal variation in water table depth on net ecosystem CO₂ exchange of a tropical peatland
Spatio-temporal evaluation of carbon emissions from biomass burning in Southeast Asia during the period 2001-2010
Reform or reversal: the impact of REDD+ readiness on forest governance in Indonesia
Heterotrophic respiration in drained tropical peat is greatly affected by temperature - A passive ecosystem cooling experiment
Implementing REDD+ (Reducing Emissions from Deforestation and Degradation): Evidence on governance, evaluation and impacts from the REDD-ALERT project
Root- and peat-based CO₂ emissions from oil palm plantations
A high-resolution and multi-year emissions inventory for biomass burning in Southeast Asia during 2001-2010
Major atmospheric emissions from peat fires in Southeast Asia during non-drought years: Evidence from the 2013 Sumatran fires
Reducing emissions from land use in Indonesia: Motivation, policy instruments and expected funding streams
CO₂ emissions from tropical drained peat in Sumatra, Indonesia
Natural regeneration in a degraded tropical peatland, Central Kalimantan, Indonesia: Implications for forest restoration
Is CO₂ flux from oil palm plantations on peatland controlled by soil moisture and/or soil and air temperatures?
Estimation of fuel mass and its loss during a forest fire in peat swamp forests of Central Kalimantan, Indonesia
The socio-ecological drivers of forest degradation in part of the tropical peatlands of Central Kalimantan, Indonesia
Carbon storage and release in Indonesian peatlands since the last deglaciation
A ranking of net national contributions to climate change mitigation through tropical forest conservation
Community-Based Peatland Management for Greenhouse Gas Reduction Based on Fire-Free Land Preparation
Carbon dioxide emissions through oxidative peat decomposition on a burnt tropical peatland
A decision tree based on spatial relationships for predicting hotspots in peatlands

2015

Indonesia's Contested Domains. Deforestation, Rehabilitation and Conservation-with-Development in Central Kalimantan's Tropical Peatlands

Detection and calculation of peatland subsidence in Indonesia by using interferometric synthetic aperture radar

A satellite-based early warning system for peatland fires toward sustainable palm oil in Indonesia

Mud, muddle and models in the knowledge value-chain to action on tropical peatland conservation

The Tropical Peatland Plantation-Carbon Assessment Tool: Estimating CO₂ emissions from tropical peat soils under plantations

Environmental dependence and seasonal variation of diffuse solar radiation in tropical peatland

Canal blocking strategies for hydrological restoration of degraded tropical peatlands in Central Kalimantan, Indonesia

Effect of plant-mediated oxygen supply and drainage on greenhouse gas emission from a tropical peatland in Central Kalimantan, Indonesia

Interactions between a wild Bornean orang-utan and a Philippine slow loris in a peat-swamp forest

Mapping ecosystem services for land use planning, the case of Central Kalimantan

Structure and abundance of "inter-rhizon" invertebrates in an oxbow lake in the peat swamp area of Central Kalimantan, Indonesia

Characteristics of carbonaceous aerosols emitted from peatland fire in Riau, Sumatra, Indonesia

Mechanism of the toxicity induced by natural humic acid on human vascular endothelial cells

Imaging tropical peatlands in Indonesia using ground-penetrating radar (GPR) and electrical resistivity imaging (ERI): implications for carbon stock estimates and peat soil characterization

Estimation model of groundwater table at peatland in Central Kalimantan, Indonesia

Dynamics of the multi-stakeholder forum and its effectiveness in promoting sustainable forest fire management practices in South Sumatra, Indonesia

Carbon accumulation of tropical peatlands over millennia: A modeling approach

Detection and prediction systems of peat-forest fires in central Kalimantan

Tropical peat formation

Tropical peatland ecosystems

Long-wave infrared identification of smoldering peat fires in Indonesia with nighttime Landsat data

Knowing the subterranean: Land grabbing, oil palm, and divergent expertise in Indonesia's peat soil

Post-dispersal seed removal by ground-feeding rodents in tropical peatlands, Central Kalimantan, Indonesia

Indonesia blazes threaten endangered orangutans

Characteristics of carbonaceous aerosols emitted from peatland fire in Riau, Sumatra, Indonesia (2): Identification of organic compounds

The impact of disturbed peatlands on river outgassing in Southeast Asia

2.5-Dimensional analysis on peatland subsidence and its relation to groundwater table in Jambi, Indonesia

Tropical peat and peatland definition in Indonesia

Spectral mixture analysis (SMA) of Landsat imagery for land cover study of highly degraded peatland in Indonesia

Morphological and molecular identification of *Beauveria bassiana* as entomopathogen agent from central Kalimantan Peatland, Indonesia

Evaluating spatial and temporal variations of aerosol optical depth and biomass burning over southeast asia based on satellite data products

How hydrology determines seasonal and interannual variations in water table depth, surface energy exchange, and water stress in a tropical peatland: Modeling versus measurements

ACRS 2015 - 36th Asian Conference on Remote Sensing: Fostering Resilient Growth in Asia, Proceedings

Discharged sulfuric acid from peatland to river system

The potential for REDD+ in peatland of Central Kalimantan, Indonesia

Evaluation of disturbed peatland/forest CO₂ emissions by atmospheric concentration measurements

The assessment of the impact of oil palm and rubber plantations on the biotic and abiotic properties of tropical peat swamp soil in Indonesia

Evapotranspiration of tropical peat swamp forests

Peat mapping

Annual variations of carbonaceous PM_{2.5} in Malaysia: Influence by Indonesian peatland fires

Land use changes and above-ground biomass estimation in peatlands of Riau and West Kalimantan, Indonesia

Fire emissions and regional air quality impacts from fires in oil palm, timber, and logging concessions in Indonesia

Tropical peatland identification using L-Band full polarimetric alos PALSAR: A case study in Central Kalimantan, Indonesia

Groundwater in peatland

Regional air quality impacts of future fire emissions in Sumatra and Kalimantan

Molluscan assemblages under the influence of peat-draining rivers off East Sumatra, Indonesia

Peatland in Kalimantan

Land change analysis from 2000 to 2004 in peatland of Central Kalimantan, Indonesia using GIS and an extended transition matrix

Peatland management for sustainable agriculture

Peat fires: Emissions likely to worsen

Livelihood strategies of transmigrant farmers in peatland of Central Kalimantan

Peatlands and plantations in Sumatra, Indonesia: Complex realities for resource governance, rural development and climate change mitigation

2016

8000years of vegetation dynamics and environmental changes of a unique inland peat ecosystem of the Jambi Province in Central Sumatra, Indonesia
Tropical peatland of the world
Industrial concessions, fires and air pollution in Equatorial Asia
Ecosystem services from a degraded peatland of Central Kalimantan: Implications for policy, planning, and management
The Use of Hotspot Spatial Clustering and Multitemporal Satellite Imagery to Facilitate Peat Land Degradation in West Kalimantan, Indonesia (Case Study in Mensiku Miniwatershed of Kapuas River)
Land use increases the recalcitrance of tropical peat
Population exposure to hazardous air quality due to the 2015 fires in Equatorial Asia
Soil degradation in oil palm and rubber plantations under land resource scarcity
Aerosol properties in central Kalimantan due to Peatland fire
Measurement of carbon dioxide flux from tropical peatland in Indonesia using the nocturnal temperature-inversion trap method
Monitoring peat subsidence and carbon emission in Indonesia peatlands using InSAR time series
Effectiveness of Roundtable on Sustainable Palm Oil (RSPO) for reducing fires on oil palm concessions in Indonesia from 2012 to 2015
The Impact of Tropical Peat Fire on Termite Assemblage in Sumatra, Indonesia: Reduced Complexity of Community Structure and Survival Strategies
Biomass burning drives atmospheric nutrient redistribution within forested peatlands in Borneo
Landscapes in transition: an analysis of sustainable policy initiatives and emerging corporate commitments in the palm oil industry
Density based clustering of hotspots in peatland with road and river as physical obstacles
Species Distribution Model using Hyperspectral Data Application in Peatland, Central Kalimantan
Atmospheric CH₄ and CO₂ enhancements and biomass burning emission ratios derived from satellite observations of the 2015 Indonesian fire plumes
Doubling of annual ammonia emissions from the peat fires in Indonesia during the 2015 El Niño
Mars mission a go; Asteroid lander killed
Peatland in Indonesia
Preventing fires and haze in Southeast Asia
Indonesia palm oil production without deforestation and peat conversion by 2050
Peatland restoration and ecosystem services: An introduction
Variable carbon losses from recurrent fires in drained tropical peatlands

2017

How do the heterotrophic and the total soil respiration of an oil palm plantation on peat respond to nitrogen fertilizer application?

Hydrological and economic effects of oil palm cultivation in Indonesian peatlands

Management driven changes in carbon mineralization dynamics of tropical peat

Digital mapping for cost-effective and accurate prediction of the depth and carbon stocks in Indonesian peatlands

Detection and characterization of low temperature peat fires during the 2015 fire catastrophe in Indonesia using a new high-sensitivity fire monitoring satellite sensor (FireBird)

Who Benefits from Ecosystem Services? A Case Study for Central Kalimantan, Indonesia

The impact of Indonesian peatland degradation on downstream marine ecosystems and the global carbon cycle

A key indicator of transboundary particulate matter pollution derived from Indonesian peatland fires in Malaysia

Influence of water depth and soil amelioration on greenhouse gas emissions from peat soil columns

Comparative Analysis of Spatial Decision Tree Algorithms for Burned Area of Peatland in Rokan Hilir Riau

Concentrations, loads and yields of organic carbon from two tropical peat swamp forest streams in Riau province, Sumatra, Indonesia

Ground surface microtopography and vegetation patterns in a tropical peat swamp forest

Low conservation value of converted habitat for avifauna in tropical peatland on Sumatra, Indonesia

Domestication of *Dyera polyphylla* (Miq.) Steenis in peatland agroforestry systems in Jambi, Indonesia

Fire carbon emissions over maritime southeast Asia in 2015 largest since 1997

Peatland restoration and ecosystem services: Nature-based solutions for societal goals

A high-altitude peatland record of environmental changes in the NW Argentine Andes (24 ° S) over the last 2100 years

Mitigating climate change by preventing peatland fire: Conditions for successful REDD+ in Indonesia

Paludiculture: Sustainable productive use of wet and rewetted peatlands

The impact of forest and peatland exploitation towards decreasing biodiversity of fishes in rangau river, riau-Indonesia

Detection and prediction of peatland cover changes using support vector machine and Markov Chain Model

Determination of Optimal Epsilon (Eps) Value on DBSCAN Algorithm to Clustering Data on Peatland Hotspots in Sumatra

Demineralization of the tooth by peat swamp water

Techno-economic analysis of a peatland gasification process for methanol synthesis and power production

Ecosystem services, degradation and restoration of peat swamps in the south east asian tropics

Tropical peatland burn depth and combustion heterogeneity assessed using uav photogrammetry and airborne LiDAR

Comparison of PM10 pattern and PM2.5 carbonaceous fraction from episodic and non episodic period of peat land wildfire

Combining focus group discussions and choice experiments for economic valuation of peatland restoration: A case study in Central Kalimantan, Indonesia

Quantitative assessment of source contributions to PM2.5 on the west coast of Peninsular Malaysia to determine the burden of Indonesian peatland fire

Magnetic susceptibility and dielectric properties of peat in Central Kalimantan, Indonesia

An appraisal of Indonesia's immense peat carbon stock using national peatland maps: Uncertainties and potential losses from conversion

Polarimetric synthetic aperture radar application for tropical peatlands classification: A case study in Siak River Transect, Riau Province, Indonesia

Competitions: Grand challenges

Spatial indicators for human activities may explain the 2015 fire hotspot distribution in central Kalimantan Indonesia

Intensified water storage loss by biomass burning in Kalimantan: Detection by GRACE

Fire Distribution in Peninsular Malaysia, Sumatra and Borneo in 2015 with Special Emphasis on Peatland Fires

Towards sustainable management of Indonesian tropical peatlands

Smallholder Farmers and the Dynamics of Degradation of Peatland Ecosystems in Central Kalimantan, Indonesia

Forestry, Forest Fires, and Climate Change in Indonesia

Light-Absorbing Brown Carbon Aerosol Constituents from Combustion of Indonesian Peat and Biomass

Investigation of smoldering combustion propagation of dried peat

Throughfall quantity and carbon input beneath canopy gaps of varying size in degraded tropical peatland forest of West Kalimantan, Indonesia

Soil carbon dioxide emissions from a rubber plantation on tropical peat

Mining social media to inform peatland fire and haze disaster management

Community forest management in Indonesia: Avoided deforestation in the context of anthropogenic and climate complexities

Connection between fire activity and land cover/use change in sumatran peatlands 2007-2015

Post-Fire Peat Land Understory Plant in Rimba Panjang, Sumatera, Indonesia

Threats to intact tropical peatlands and opportunities for their conservation

Organic acids exudates and enzyme activities in the rhizosphere based on distance from the trunk of oil palm in Peatland

Environmental dynamics and carbon accumulation rate of a tropical peatland in Central Sumatra, Indonesia

Precipitation-fire linkages in Indonesia (1997-2015)

Dynamics and Effectiveness of the Multistakeholder Forum in Promoting Sustainable Forest Fire Management Practices in South Sumatra, Indonesia

Forest type diversity on carbon stocks: Cases of recent land cover conditions of tropical lowland, swamp, and peatland forests in West Kalimantan, Indonesia

Risks and opportunities from key importers pushing for sustainability: the case of Indonesian palm oil

Singapore's willingness to pay for mitigation of transboundary forest-fire haze from Indonesia

Keep wetlands wet: the myth of sustainable development of tropical peatlands – implications for policies and management
Effect of groundwater level fluctuation on soil respiration rate of tropical peatland in Central Kalimantan, Indonesia
Tree growth rings in tropical peat swamp forests of Kalimantan, Indonesia
Greenhouse gas emissions intensity of global croplands
Perceptions across scales of governance and the Indonesian peatland fires
Greenhouse gas and air pollutant emissions from land and forest fire in Indonesia during 2015 based on satellite data
Water uptake by fresh Indonesian peat burning particles is limited by water-soluble organic matter
Blocking, attracting, imposing, and aligning: The utility of ASEAN forest and environmental regime policies for strong member states
An expert system model for mapping tropical wetlands and peatlands reveals South America as the largest contributor
Experimental study of the effect of water spray on the spread of smoldering in Indonesian peat fires
Sequential pattern analysis of hotspots based on peatland characteristics in Sumatra and Kalimantan
Effect of density on forward and upward smoldering combustion of cellulosic material
Factors affecting oxidative peat decomposition due to land use in tropical peat swamp forests in Indonesia
Fire economy and actor network of forest and land fires in Indonesia
Temperature and burning history affect emissions of greenhouse gases and aerosol particles from tropical peatland fire
A common-sense approach to tropical peat swamp forest restoration in Southeast Asia
From carbon sink to carbon source: Extensive peat oxidation in insular Southeast Asia since 1990
Prospect of Sustainable Peatland Agriculture for Supporting Food Security and Mitigating Green House Gas Emission in Central Kalimantan, Indonesia
Conventional pollutant and greenhouse gases emission from peatland fire based on peatland maturity at flaming stage
Redd+ and forest fires: Implications for the legal and policy forest fire management framework in Indonesia
Promising native tree species for reforestation of degraded tropical peatlands
Structural elucidation of condensed tannin from the bark waste of *Acacia crassicarpa* plantation wood in Indonesia
A global enhancement of hydrogen cyanide in the lower stratosphere throughout 2016
Nutritional ecology of wild Bornean orangutans (*Pongo pygmaeus wurmbii*) in a peat swamp habitat: Effects of age, sex, and season
Fire activity in Borneo driven by industrial land conversion and drought during El Niño periods, 1982–2010
Challenging constraints of livelihoods for farmers in the South Sumatra Peatlands, Indonesia
Low resource use and high yield concept in climate-smart community empowerment
Overlapping Land Claims Limit the Use of Satellites to Monitor No-Deforestation Commitments and No-Burning Compliance
Estimating of *gonystylus bancanus* growing stock in Indonesia (Case study: Riau and Central Kalimantan)

2018

Emission factors of CO₂, CO and CH₄ from Sumatran peatland fires in 2013 based on shipboard measurements
The survival strategies of transmigrants in peatland case study: Basarang Jaya Village, Central Kalimantan
A case study on the economic valuation of peatland restoration in Central Kalimantan, Indonesia
IOP Conference Series: Earth and Environmental Science
Ongoing primary forest loss in Brazil, Democratic Republic of the Congo, and Indonesia
Water table depth fluctuations during ENSO phenomenon on different tropical peat swamp forest land covers in Katingan, Indonesia
The Transnationalisation of Competing State Projects: Carbon Offsetting and Development in Sumatra's Coastal Peat Swamps
A review of land-based greenhouse gas flux estimates in Indonesia
Variation in soil properties regulate greenhouse gas fluxes and globalwarming potential in three land use types on tropical peat
Fire spot identification based on hotspot sequential pattern and burned area classification
Temporal Gravity Gradient of South Kalimantan Region
Visualizing the spatiotemporal trends of thermal characteristics in a peatland plantation forest in Indonesia: Pilot test using unmanned aerial systems (UASs)
Geogame on the peat: Designing effective gameplay in geogames app for haze mitigation
Haze in urban areas from peatland fires in Sumatra based on simulation using HYSPLIT
Water table evaluation post the construction of canal blocks on peatland in West Kalimantan, Indonesia
Ecosystem-scale methane flux in tropical peat swamp forest in Indonesia
Carbon emissions from South-East Asian peatlands will increase despite emission-reduction schemes
Detection of Dry-Flammable Peatland Area by Using Backscattering Coefficient Information of ALOS-2 Data L-Band Frequency
Sundaland Peat Carbon Dynamics and Its Contribution to the Holocene Atmospheric CO₂ Concentration
Deforested and drained tropical peatland sites show poorer peat substrate quality and lower microbial biomass and activity than unmanaged swamp forest
Constraining the Emission of Particulate Matter From Indonesian Peatland Burning Using Continuous Observation Data
Determining critical groundwater level to prevent degraded peatland from severe peat fire
Restoration to offset the impacts of developments at a landscape scale reveals opportunities, challenges and tough choices
Assessment of suitability of tree species for bioenergy production on burned and degraded peatlands in Central Kalimantan, Indonesia
Carbon Emission from Peat Fire in 2015
Smoke radiocarbon measurements from Indonesian fires provide evidence for burning of millennia-aged peat
Multi-Sensors Remote Sensing for Mapping and Monitoring Canals on Tropical Peatland

Entomopathogenic fungi of soils of freshwater swamps, tidal lowlands, peatlands, and highlands of South Sumatra, Indonesia

Resilience of a peatland in Central Sumatra, Indonesia to past anthropogenic disturbance: Improving conservation and restoration designs using palaeoecology

The Invisible Carbon Footprint as a hidden impact of peatland degradation inducing marine carbonate dissolution in Sumatra, Indonesia

Socioeconomic factors of smallholder farmers' behavior in biomass burning around palm oil plantation in Indonesia

Secondary aerosol formation promotes water uptake by organic-rich wildfire haze particles in equatorial Asia

Climate regulation: Southeast asian peat swamps

Ground-based measurements of column-averaged carbon dioxide molar mixing ratios in a peatland fire-prone area of Central Kalimantan, Indonesia

Carbon emissions from oil palm development on deep peat soil in central kalimantan indonesia

A Review of Techniques for Effective Tropical Peatland Restoration

Identification of Tropical Peatland Using ALOS 2 Palsar

New tropical peatland gas and particulate emissions factors indicate 2015 Indonesian fires released far more particulate matter (but Less Methane) than current inventories imply

Biologically driven DOC release from peatlands during recovery from acidification

Towards zero burning peatland preparation: Incentive scheme and stakeholders role

The Sustainability of an Environmental Policy: A Review of Indonesia Peat Restoration Program

Will CO₂ Emissions from Drained Tropical Peatlands Decline Over Time? Links Between Soil Organic Matter Quality, Nutrients, and C Mineralization Rates

Peat soil quality index and its determinants as influenced by land use changes in kubu Raya district, West Kalimantan, Indonesia

Restoration of peat dome in ex-Mega rice project area in Central Kalimantan

Geosynthetics application in Indonesia - A case histories

Carbon storage potential in degraded forests of Kalimantan, Indonesia

Tropical Peat Moisture Profiles for Early Information of Drought in Indonesia

Forest and land fires in Pelalawan district, Riau, Indonesia: Drivers, pressures, impacts and responses

A deforestation detective rethinks how industry can quell emissions career-q-and-a

Spatial Analysis of the Correlation between Hot Spot Distribution and Land Cover Type in Sumatra, Indonesia

Proceedings - 2018 IEEE Asia-Pacific Conference on Geoscience, Electronics and Remote Sensing Technology: Best Practice for Disaster Mitigation using Geoscience, Electronic, and Remote Sensing, AGERS 2018

Temporal Patterns of Hotspot Sequences for Early Detection of Peatland Fire in Riau Province

Modeling burned areas in Indonesia: The FLAM approach
Temporal prediction of carbon monoxide using the Elman Recurrent Neural Network
An estimate of the financial cost of peatland restoration in Indonesia
Enzyme activities in relation to total nutrients of K, Ca, Mg, Fe, Cu, and Zn in oil palm rhizosphere of tropical peatland in Riau, Indonesia
To treat or not to treat? The seedling performance of native tree species for reforestation on degraded tropical peatlands of SE Asia
Estimation of carbon emission from peatland fires using Landsat-8 OLI imagery in Siak District, Riau Province
Physico-chemical properties tests of palm oil based foaming agent using water solvent media from Peatland
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Forest and Land Fires in Indonesia: Assessment and Mitigation
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Edge effects on biomass, growth, and tree diversity of a degraded peatland in west kalimantan, indonesia
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Peatland fish of Sebangau, Borneo: Diversity, monitoring and conservation
Open digital mapping as a cost-effective method for mapping peat thickness and assessing the carbon stock of tropical peatlands

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Spatial analysis of soil texture and peat soil by ndsi method at swamp area of Banyuasin District, Indonesia
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Enhancing water levels of degraded, bare, tropical peatland in West Kalimantan, Indonesia: Impacts on CO₂ emission from soil respiration
Reducing CO₂ emissions and supporting food security in Central Kalimantan, Indonesia, with improved peatland management
Gardeners of the forest: Effects of seed handling and ingestion by orangutans on germination success of peat forest plants
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The social and economic impacts of peat Land palm oil plantation in Indonesia
Fires, Smoke Exposure, and Public Health: An Integrative Framework to Maximize Health Benefits From Peatland Restoration
Assessing the health impacts of peatland fires: a case study for Central Kalimantan, Indonesia
Design of carbon dioxide level measures on peat soil with MG 811 sensor
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Carbon dioxide (CO₂) emissions on highland peatland that has been planted with coffee in Humbang Hasundutan Regency, North Sumatra Province

Numerical Modeling of Foot Plate Foundation Located on Peat Soil

Application of Polarimetric Decomposition and Interferometric SAR Using ALOS-2 PALSAR-2 Data to Detect Potential of Combustible Peatland Areas

Quantification of Peat Thickness and Stored Carbon at the Landscape Scale in Tropical Peatlands: A Comparison of Airborne Geophysics and an Empirical Topographic Method

Comparative Study of Methods to Estimate Historical Peat Burnt Area in Gaung - Batang Tuaka River of Peat Hydrological Unit (KHG)

Estimation of Metal Emissions from Tropical Peatland Burning in Indonesia by Controlled Laboratory Experiments

Effect of wildfires on tropical peatland vegetation in Meranti Islands district, Riau province, Indonesia

Relationship between fire and forest cover loss in Riau Province, Indonesia between 2001 and 2012

IOP Conference Series: Earth and Environmental Science

Estimation of Peatland Distribution Using Ratio Dual-pol from Sentinel-1A

Spatial model of peatland fire control strategies through peat maturity level approach: Case Study of the Kepulauan Meranti District

The productivity increasing of peatlands on community land by multi-cropping model in Riau Indonesia

Understanding nutrient cycles as a key to sustainable forest plantation on tropical peatland in Indonesia

Providing biodiversity information to support sustainable development of Sugihan wetlands, South Sumatra

Spatial analysis of hotspot data for tracing the source of annual peat fires in South Sumatera, Indonesia

Groundwater level response of the primary forest, ex-peatland fire, and community mix plantation in the Kampar peninsula, Indonesia

Exploration of the importance of physical properties of Indonesian peatlands to assess critical groundwater table depths, associated drought and fire hazard

The many faces of strict liability in Indonesia's wildfire litigation

Indonesia Fire Danger Rating System (Ina-FDRS), a New Algorithm for the Fire Prevention in Indonesia

The interaction of peat and sulphidic material as substratum in wetland: Ash content and electrical conductivity dynamic

Estimation of Dielectric Constant Using A Dual-pol Sentinel-1A in Tropical Peatland

A comparison of satellite remote sensing data fusion methods to map peat swamp forest loss in Sumatra, Indonesia

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Potential of soil moisture retrieval for tropical peatlands in Indonesia using ALOS-2 L-band full-polarimetric SAR data

Improving strategies for sustainability of short-term agricultural utilization on degraded peatlands in Central Kalimantan

Parched peatlands fuel Indonesia's blazes

Development Paludiculture on Tropical Peatland for Productive and Sustainable Ecosystem in Riau

Estimation of Carbon Dioxide Budget from Peatland in Indonesia with Site-Level Validation

Application of microwave remote sensing polarimetric synthetic aperture radar for the new geological map of peatland distribution, humidity and its sample properties in Regency of Siak, Riau Province, Indonesia

Are national commitments to reducing emissions from forests effective? Lessons from Indonesia

Historical precipitation data in Sumatra and Kalimantan from 1879 to 1900, by using Dutch colonial materials

Land cover changes reduce net primary production in tropical coastal peatlands of West Kalimantan, Indonesia

Beyond fires and deforestation: Tackling land subsidence in peatland areas, A case study from Riau, Indonesia

The response of soil respiration to climatic drivers in undrained forest and drained oil palm plantations in an Indonesian peatland

Some insight into direct observation of hydrological parameters in peatland area of the south Sumatra

Hidden challenges for conservation and development along the Trans-Papuan economic corridor

Unrelenting games: Multiple negotiations and landscape transformations in the tropical peatlands of Central Kalimantan, Indonesia

MAKING PEACE with OIL PALM Some scientists are helping make palm plantations greener. Others say that doing so legitimizes a destructive industry

Estimating public financing gap to reduce greenhouse gas emissions in Indonesia: A case for forestry sector

Impacts of peat fire on soil flora and fauna, soil properties and environmental damage in riau province, Indonesia

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Tropical peatlands under siege: the need for evidence-based policies and strategies

The Impact of Forest Fire on the Biodiversity and the Soil Characteristics of Tropical Peatland

Mixed farming systems on peatlands in Jambi and Central Kalimantan provinces, Indonesia: Should they be described as paludiculture?

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Mapping and predicting forest loss in a Sumatran tiger landscape from 2002 to 2050

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Subsidence and carbon dioxide emissions in a smallholder peatland mosaic in Sumatra, Indonesia

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Characteristics and causes of forest and land fires in Kapuas district, Central Kalimantan Province, Indonesia

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An exploration of gender equity in household: A case from a Peatland-based community in Riau, Indonesia

Hydrophysical properties of ombrotrophic peat under drained peatlands

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Arugosins O-Q, new fungal metabolites from the fungus xylariaceae sp. isolated from leaves of *lansium domesticum* (Meliaceae)

Evaluating the social and environmental factors behind the 2015 extreme fire event in Sumatra, Indonesia

Ecological aspects and genetic diversity of *Shorea balangeran* in two forest types of Muara Kendawangan Nature Reserve, West Kalimantan, Indonesia

A framework for the development of wetland for agricultural use in Indonesia

AERONET Remotely Sensed Measurements and Retrievals of Biomass Burning Aerosol Optical Properties During the 2015 Indonesian Burning Season

Understanding of fire distribution in the South Sumatra peat area during the last two decades

Spatial logistic regression models for predicting peatland fire in Bengkalis Regency, Indonesia

Carbon stocks, emissions, and aboveground productivity in restored secondary tropical peat swamp forests

Rates and spatial variability of peat subsidence in Acacia plantation and forest landscapes in Sumatra, Indonesia

Optimization of gas pipeline route selection with goal programming considering environmental aspects

Modeling peat- and forestland conversion by oil palm smallholders in Indonesian Borneo

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Morphological Variation of Castor Bean (*Ricinus communis* L.) on Peatland Area in Kepulauan Meranti Riau Indonesia

Towards better use of Indonesian peatlands with paludiculture and low-drainage food crops

Fixing flammable Forest: The scalar politics of peatland governance and restoration in Indonesia

Identification of magnetic mineral forming elements in peatland Alahan Panjang West Sumatra Indonesia, section DD REP B 693 using X-Ray Fluorescence

From canals to the coast: Dissolved organic matter and trace metal composition in rivers draining degraded tropical peatlands in Indonesia

Wading through the swamp: what does tropical peatland restoration mean to national-level stakeholders in Indonesia?

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The Jurisdictional Approach in Indonesia: Incentives, Actions, and Facilitating Connections

Characteristics of Diurnal Rainfall over Peatland Area of South Sumatra, Indonesia

Tropical peatlands and their conservation are important in the context of COVID-19 and potential future (zoonotic) disease pandemics

The Volumetric Political Forest: Territory, Satellite Fire Mapping, and Indonesia's Burning Peatland

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Predicting peatland groundwater table and soil moisture dynamics affected by drainage level

Is flooding considered a threat in the degraded tropical peatlands?

Peatland Policy and Management Strategy to Support Sustainable Development in Indonesia

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Peat Physical and Hydraulic Properties Due to Peatland Fires

The abnormal change of air quality and air pollutants induced by the forest fire in Sumatra and Borneo in 2015

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Dynamics of a human-modified tropical peat swamp forest revealed by repeat lidar surveys
Using a Delphi approach to identify the most efficacious interventions to improve Indonesia's forest and land governance
Development of agroforestry oil palm for peatland restoration in Jambi Province: Establishing process and initial results

Evaluation the Effectiveness Implementation of the Weather Modification Technology for Mitigating Peatland Fires
Historical and cultural constraints of Tebing Tinggi Timur Community in Meranti Riau District in land management for avoiding peat-wild fire
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Agroforests, Swiddening and Livelihoods between Restored Peat Domes and River: Effects of the 2015 Fire Ban in Central Kalimantan (Indonesia)
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The response of eggplant (*Solanum Melongena* L.) growth planted on raised-bog peatland towards the provision of chicken dung and Swallow Guano

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