

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	<p>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</p> <p>Effects of environmental variations on CO₂ efflux from a tropical peatland in eastern sumatra</p> <p>Effects of agricultural land-use change and forest fire on N₂O emission from tropical peatlands, Central Kalimantan, Indonesia</p> <p>Interrelationships between hydrology and ecology in fire degraded tropical peat swamp forests</p> <p>Tropical peatland water management modelling of the air hitam laut catchment in indonesia</p>
2007	<p>Shifting cultivation in peatlands</p> <p>Effect of sulfuric acid discharge on river water chemistry in peat swamp forests in central Kalimantan, Indonesia</p> <p>Development of the Indonesian and Malaysian fire danger rating systems</p> <p>Microclimate conditions of the developed peatland in Central Kalimantan</p> <p>Carbon dioxide balance of a tropical peat swamp forest in Kalimantan, Indonesia</p> <p>Long-time risk of groundwater/drinking water pollution with sulphuric compounds beneath burned peatlands in Indonesia</p> <p>Relevance of peat draining rivers in central Sumatra for the riverine input of dissolved organic carbon into the ocean</p> <p>Rural livelihoods and burning practices in Savanna landscapes of Nusa Tenggara Timur, Eastern Indonesia</p>
2008	<p>Determination of the amount of carbon stored in Indonesian peatlands</p> <p>Carbon dioxide and methane fluxes in drained tropical peat before and after hydrological restoration</p> <p>Climate regulation of fire emissions and deforestation in equatorial Asia</p> <p>Peat-water interrelationships in a tropical peatland ecosystem in Southeast Asia</p> <p>Emergence and behaviors of acid-tolerant <i>Janthinobacterium</i> sp. that evolves N₂O from deforested tropical peatland</p> <p>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</p> <p>Land clearing and the biofuel carbon debt</p> <p>A remote sensing case study of land use/land cover changes in the Peatlands of Muaro Jambi, Indonesia, between 1989-2007</p>
2009	<p>Preparation of activated carbon from peat</p> <p>Derivation of burn scar depths and estimation of carbon emissions with LIDAR in Indonesian peatlands</p> <p>Restoration ecology of lowland tropical peatlands in Southeast Asia: Current knowledge and future research directions</p> <p>Controls on the carbon balance of tropical peatlands</p> <p>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]</p> <p>Effect of sago palm (<i>Metroxylon sagu</i> Rottb.) cultivation on the chemical properties of soil and water in tropical peat soil ecosystem</p> <p>Regeneration and restoration of degraded peat swamp forest in Berbak NP, Jambi, Sumatra, Indonesia</p>

	<p>The contribution of CHRIS/PROBA data for tropical peat swamp landscape discrimination purposes</p> <p>Methane and CO₂ fluxes from an Indonesian peatland used for sago palm (<i>Metroxylon sagu</i> Rottb.) cultivation: Effects of fertilizer and groundwater level management</p> <p>View angle effects on the discrimination of some land cover types in a tropical peat swamp forest environment</p> <p>Carbon storage in mangrove and peatland ecosystems: A preliminary account from plots in Indonesia</p>
2010	<p>Spectral variability and discrimination assessment in a tropical peat swamp landscape using CHRIS/PROBA data</p> <p>Planning hydrological restoration of peatlands in Indonesia to mitigate carbon dioxide emissions</p> <p>Detection of fire impact and vegetation recovery over tropical peat swamp forest by satellite data and ground-based NDVI instrument</p> <p>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</p> <p>Vegetation correlates of gibbon density in the peat-swamp forest of the Sabangau Catchment, Central Kalimantan, Indonesia</p> <p>Status of peatland degradation and development in Sumatra and Kalimantan</p> <p>Peat swamp forest supports high primate densities on Siberut Island, Sumatra, Indonesia</p> <p>Current and future CO₂ emissions from drained peatlands in Southeast Asia</p> <p>Global fire emissions and the contribution of deforestation, savanna, forest, agricultural, and peat fires (1997-2009)</p>
2011	<p>Analysis of peatland development and degradation processes in Jambi, Indonesia</p> <p>Combining ALOS-PALSAR imagery with field water level measurements for flood mapping of a tropical floodplain</p> <p>Hot spots of confusion: Contested policies and competing carbon claims in the peatlands of central Kalimantan, Indonesia</p> <p>Monitoring the effect of restoration measures in Indonesian peatlands by radar satellite imagery</p> <p>Nitrous oxide emission derived from soil organic matter decomposition from tropical agricultural peat soil in central Kalimantan, Indonesia</p> <p>Greenhouse gas fluxes: Effects of physical conditions</p> <p>Deforestation projections for carbon-rich peat swamp forests of Central Kalimantan, Indonesia</p> <p>Carbon emissions: Loophole in forest plan for Indonesia</p> <p>Peat swamp forest avifauna of Central Kalimantan, Indonesia: Effects of habitat loss and degradation</p> <p>ICESat/GLAS data as a measurement tool for peatland topography and peat swamp forest biomass in Kalimantan, Indonesia</p> <p>Effect of repeated fires on land-cover change on peatland in southern Central Kalimantan, Indonesia, from 1973 to 2005</p> <p>Global and regional importance of the tropical peatland carbon pool</p> <p>Development and carbon sequestration of tropical peat domes in south-east Asia: Links to post-glacial sea-level changes and Holocene climate variability</p> <p>Assessment of ALOS PALSAR 50 m orthorectified FBD data for regional land cover classification by support vector machines</p> <p>Dynamics of fire plumes and smoke clouds associated with peat and deforestation fires in Indonesia</p>

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

	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 CO ₂ 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
2015	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	<p>8000years of vegetation dynamics and environmental changes of a unique inland peat ecosystem of the Jambi Province in Central Sumatra, Indonesia</p> <p>Tropical peatland of the world</p> <p>Industrial concessions, fires and air pollution in Equatorial Asia</p> <p>Ecosystem services from a degraded peatland of Central Kalimantan: Implications for policy, planning, and management</p> <p>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)</p> <p>Land use increases the recalcitrance of tropical peat</p> <p>Population exposure to hazardous air quality due to the 2015 fires in Equatorial Asia</p> <p>Soil degradation in oil palm and rubber plantations under land resource scarcity</p> <p>Aerosol properties in central Kalimantan due to Peatland fire</p> <p>Measurement of carbon dioxide flux from tropical peatland in Indonesia using the nocturnal temperature-inversion trap method</p> <p>Monitoring peat subsidence and carbon emission in Indonesia peatlands using InSAR time series</p> <p>Effectiveness of Roundtable on Sustainable Palm Oil (RSPO) for reducing fires on oil palm concessions in Indonesia from 2012 to 2015</p> <p>The Impact of Tropical Peat Fire on Termite Assemblage in Sumatra, Indonesia: Reduced Complexity of Community Structure and Survival Strategies</p> <p>Biomass burning drives atmospheric nutrient redistribution within forested peatlands in Borneo</p> <p>Landscapes in transition: an analysis of sustainable policy initiatives and emerging corporate commitments in the palm oil industry</p> <p>Density based clustering of hotspots in peatland with road and river as physical obstacles</p> <p>Species Distribution Model using Hyperspectral Data Application in Peatland, Central Kalimantan</p> <p>Atmospheric CH₄ and CO₂ enhancements and biomass burning emission ratios derived from satellite observations of the 2015 Indonesian fire plumes</p> <p>Doubling of annual ammonia emissions from the peat fires in Indonesia during the 2015 El Niño</p> <p>Mars mission a go; Asteroid lander killed</p> <p>Peatland in Indonesia</p> <p>Preventing fires and haze in Southeast Asia</p> <p>Indonesia palm oil production without deforestation and peat conversion by 2050</p> <p>Peatland restoration and ecosystem services: An introduction</p> <p>Variable carbon losses from recurrent fires in drained tropical peatlands</p>
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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 *gonystiluss bancanus* growing stock in Indonesia (Case study: Riau and Central Kalimantan)

2018	<p>Emission factors of CO₂, CO and CH₄ from Sumatran peatland fires in 2013 based on shipboard measurements</p> <p>The survival strategies of transmigrants in peatland case study: Basarang Jaya Village, Central Kalimantan</p> <p>A case study on the economic valuation of peatland restoration in Central Kalimantan, Indonesia</p> <p>IOP Conference Series: Earth and Environmental Science</p> <p>Ongoing primary forest loss in Brazil, Democratic Republic of the Congo, and Indonesia</p> <p>Water table depth fluctuations during ENSO phenomenon on different tropical peat swamp forest land covers in Katingan, Indonesia</p> <p>The Transnationalisation of Competing State Projects: Carbon Offsetting and Development in Sumatra's Coastal Peat Swamps</p> <p>A review of land-based greenhouse gas flux estimates in Indonesia</p> <p>Variation in soil properties regulate greenhouse gas fluxes and globalwarming potential in three land use types on tropical peat</p> <p>Fire spot identification based on hotspot sequential pattern and burned area classification</p> <p>Temporal Gravity Gradient of South Kalimantan Region</p> <p>Visualizing the spatiotemporal trends of thermal characteristics in a peatland plantation forest in Indonesia: Pilot test using unmanned aerial systems (UASs)</p> <p>Geogame on the peat: Designing effective gameplay in geogames app for haze mitigation</p> <p>Haze in urban areas from peatland fires in Sumatra based on simulation using HYSPLIT</p> <p>Water table evaluation post the construction of canal blocks on peatland in West Kalimantan, Indonesia</p> <p>Ecosystem-scale methane flux in tropical peat swamp forest in Indonesia</p> <p>Carbon emissions from South-East Asian peatlands will increase despite emission-reduction schemes</p> <p>Detection of Dry-Flammable Peatland Area by Using Backscattering Coefficient Information of ALOS-2 Data L-Band Frequency</p> <p>Sundaland Peat Carbon Dynamics and Its Contribution to the Holocene Atmospheric CO₂ Concentration</p> <p>Deforested and drained tropical peatland sites show poorer peat substrate quality and lower microbial biomass and activity than unmanaged swamp forest</p> <p>Constraining the Emission of Particulate Matter From Indonesian Peatland Burning Using Continuous Observation Data</p> <p>Determining critical groundwater level to prevent degraded peatland from severe peat fire</p> <p>Restoration to offset the impacts of developments at a landscape scale reveals opportunities, challenges and tough choices</p> <p>Assessment of suitability of tree species for bioenergy production on burned and degraded peatlands in Central Kalimantan, Indonesia</p> <p>Carbon Emission from Peat Fire in 2015</p> <p>Smoke radiocarbon measurements from Indonesian fires provide evidence for burning of millennia-aged peat</p> <p>Multi-Sensors Remote Sensing for Mapping and Monitoring Canals on Tropical Peatland</p>
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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

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2022	<p>Changes of tree species diversity in peatland impacted by moderate fire severity at teluk meranti, Pelalawan, Riau province, Indonesia</p> <p>Hydrological Management Practices</p> <p>Minimal number of morphoagronomic characters required for the identification of pineapple (<i>Ananas comosus</i>) cultivars in peatlands of Riau, Indonesia</p> <p>The Diversity of Macrofauna in Peatlands that Planted by Palm Oil and Without Palm Oil in Jambi Region, Indonesia</p> <p>Multinational Corporations and Human Rights in Indonesia: The Need for Improvement in Legislation</p> <p>Remote Sensing Image Analysis for Identification of Peat Thickness Using Spectral Transformation Approach: Case Study of Bengkalis Island, Riau, Indonesia</p> <p>Deforestation, plantation-related land cover dynamics and oil palm age-structure change during 1990-2020 in Riau Province, Indonesia</p> <p>Assessments of Underground Carbon Stocks in Merang-Kepahyang Peatlands, South Sumatra, Indonesia</p> <p>Assessing resource-based theory in ecotourism management: The case of Sebangau National Park, Indonesia</p> <p>The effect of indigenous vegetations on the biological control of oil palm basal stem rot (BSR) disease caused by <i>Ganoderma</i> in peatlands</p> <p>Peatland Fire Mitigation: Indigenous People's Way in Surviving Economic and Ecological Sustainability</p> <p>Improved estimation of fire particulate emissions using a combination of VIIRS and AHI data for Indonesia during 2015–2020</p> <p>Peatlands Restoration Policies in Indonesia: Success or Failure?</p> <p>Assessing the impact of forest structure disturbances on the arboreal movement and energetics of orangutans—An agent-based modeling approach</p> <p>Peatland Loss in Southeast Asia Contributing to U.S. Biofuel's Greenhouse Gas Emissions</p> <p>Oil palm reconciliation in Indonesia: Balancing rising demand and environmental conservation towards 2050</p> <p>Community Resilience Related to Community Resources Access to Peatland in Political Ecological Perspectives: A Case Study of Purun (<i>Eleocharis dulcis</i>) Craftmen in Ogan Komering Ilir, South Sumatera, Indonesia</p> <p>Satellite observations and modelling of hydrogen cyanide in the Earth's atmosphere</p> <p>Natural climate solutions in Indonesia: wetlands are the key to achieve Indonesia's national climate commitment</p> <p>No evidence for trade-offs between bird diversity, yield and water table depth on oil palm smallholdings: Implications for tropical peatland landscape restoration</p> <p>Rewetting Tropical Peatlands Reduced Net Greenhouse Gas Emissions in Riau Province, Indonesia</p> <p>Flooding tolerance of four tropical peatland tree species in a nursery trial</p> <p>Potential of chitosan/carbon nanoparticles and chitosan/lignocellulose nanofiber composite as growth media for peatland paddy seeds</p> <p>More data, more problems? Incompatible uncertainty in Indonesia's climate change mitigation projects</p>
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