Supplementary Information for

Peatland fire occurrences in Central Kalimantan could be reduced to less than half with targeted land management strategies

Alexander J. Horton*[1], Jaakko Lehtinen[2], Matti Kummu[1]

[1] Department of Built Environment, Aalto University, Espoo, Finland
[2] Department of Computer Science, Aalto University, Espoo, Finland
*Corresponding author: Alexander.horton@gmail.com

Contents of this file

Tables S1 and S2

Introduction

This supplementary information provides the complete list of input variables and descriptions used within the model, and details of the original land cover classifications.

Table S1. Predictor variable labels, descriptions, and group classes.

Variable label	Variable description	Variable group class
dist2sett	Distance to settlements	Anthropogenic
dist2canal	Distance to canals / rivers	Anthropogenic
dist2road	Distance to roads	Anthropogenic
dist2rivers	Distance to rivers	Anthropogenic
Forest_clear_index	Forest clearance index	Land cover
MoF_Pri_2nd_dry_Forest	Land cover designation primary or secondary forest	Land cover
Swamp_shrubland	Land cover designation swamp shrubland	Land cover
Rice_land	Land cover designation rice agriculture	Land cover
Swamp_wet_forest	Land cover designation wet swamp forest	Land cover
Scrubland	Land cover designation scrublands	Land cover
Water_cloud	Land cover designation water or cloud cover	Land cover
Settlements	Land cover designation settlements	Land cover
Plantation	Land cover designation plantations	Land cover
Peat_d	Peat depth	Environmental
ONI	Mean ONI for July - September	Environmental
SRTM	Elevation	Environmental
ET:PET_[pre_fs, July]	ET:PET ratio for pre fire season (pre_fs) or July	Vegetation
EVI_[pre_fs, July]	EVI for pre fire season (pre_fs) or July	Vegetation
NDVI_[pre_fs, July]	NDVI for pre fire season (pre_fs) or July	Vegetation
SPEI_3/12mnth_[July]	3/12 month Standardised Precipitation Evapotranspiration Index looking back from [July]	Environmental
norm_[ET:PET,NDVI,EVI]	The normalised version of [variable] against a reference area (see methods for details)	Vegetation
Cloud_days	Number of cloud days per pixel between May-July.	Environmental

Table S2: Original land cover classifications and subsequent reclassifications.

LC code	Class	Reclassification
2001	Primary Dry Land Forest	MoF_Pri_2nd_dry_Forest
2002	Secondary Dry Land Forest	MoF_Pri_2nd_dry_Forest
2004	Primary Mangrove Forest	MoF_Swamp_wet_forest
2005	Primary Swamp Forest	MoF_Swamp_wet_forest
20041	Secondary Mangrove Forest	MoF_Swamp_wet_forest
20051	Secondary Swamp Forest	MoF_Swamp_wet_forest
2014	Bare Land	MoF_Scrubland
20095	Transition	MoF_Scrubland
20122	Transition	MoF_Scrubland
2007	Scrubland	MoF_Scrubland
3000	Savannah	MoF_Scrubland
20091	Dry Rice Land	MoF_Rice_land
20092	Dry Rice Land Mixed w/Scrub	MoF_Rice_land
20093	Rice Land	MoF_Rice_land
2010	Plantation	MoF_Plantation
20071	Swamp Shrubland	MoF_swamp_scubland
2012	Housing	MoF_Settlements
20121	Airport	MoF_Settlements
20141	Mining	MoF_Settlements
2500	Cloud	MoF_water_cloud
5001	Bodies of Water	MoF_water_cloud
20094	Fish Pond	MoF_water_cloud
5003	Ocean / River	MoF_water_cloud
50011	Swamp	MoF_water_cloud