Supplementary Online Material 3

List of feature space data for the random forest classification

This supplementary material presents the variables used to train the random forest classifier and produce the wetland map.

Table S1 presents the variables used to train the Random Forest classifier. In total, 27 variables were considered, including spectral bands from optical sensors, radar-derived information, and geomorphological data. This combination aims to capture different aspects of the landscape and provide the model with a robust foundation to accurately distinguish the target classes.

Table S1. Features space applied to train the classifier

ID	Input feature	Description	Feature name (script)
1	Green_vegetation_median	Median of green vegetation	gv
2	Soil_median	Median of Soil	soil
3	NPV_median	Median of NPV	npv
4	Shade_median	Median of Shade	shade
5	Cloud_median	Median of Cloud	cloud
6	Green vegetation_p15	Percentile 15 of green vegetation	gv_p15
7	Soil_p15	Percentile 15 of Soil	soil_p15
8	NPV_p15	Percentile 15 of NPV	npv_p15
9	Shade_p15	Percentile 15 of Shade	shade_p15
10	Cloud_p15	Percentile 15 of Cloud	cloud_p15
11	Green vegetation_p85	Percentile 85 of green vegetation	gv_p85
12	Soil_p85	Percentile 85 of Soil	soil_p85
13	NPV_p85	Percentile 85 of NPV	npv_p85
14	Shade_p85	Percentile 85 of Shade	shade_p85
15	Cloud_p85	Percentile 85 of Cloud	cloud_p85
16	Alos_Palsar	HH polarization of Alos Palsar	alos_hh
17		HV polarization of Alos Palsar	alos_hv

18	Sentinel-1_median	Median VH polarization of Sentinel-1	sentinel_1_vh
19		Median VV polarization of Sentinel-1	sentinel_1_vv
20	Sentinel-1_p15	Percentile 15 VH polarization of Sentinel-1	sentinel_1_vh_p15
21		Percentile 15 VV polarization of Sentinel-1	sentinel_1_vv_p15
22	Sentinel-1_p85	Percentile 85 VH polarization of Sentinel-1	sentinel_1_vh_p85
23		Percentile 85 VV polarization of Sentinel-1	sentinel_1_vv_p85
24	Vegetation_height	GEDI vegetation height	canopy
25	FABDEM	Forest and Buildings removed Copernicus DEM	altitude
26	TWI	Topographic wetness index from FABDEM	twi