Tables S2a to S2k. Results of Scenario_1 (Experiment_2) presenting the overall accuracy and kappa values obtained from the cross-validation between the Filtered Reference Models (FRMs) and Ground Truth (GT). The results of each filter are handled using the following Filter Radii (FR) used:

(Gound truth types: 1, Buildings and intervened landscapes; 2, Terrains in Natural landscapes; 3, Water)

a, FFPABUTT_FC0001

			Prediction					User accuracy
			Type Value	Buildings 1	Terrains 2	Water 3	Total	
GT	Type	Value	Pixel	28,025,057	7,478,869	35,056,074	70,560,000	
	1	100	16,930,636	14,594,746	13,404,498	25,813	28,025,057	0.521
	2	200	21,335,443	2,198,016	5,194,761	86,092	7,478,869	0.696
	3	300	32,293,921	137,874	2,736,184	32,182,016	35,056,074	0.918
	Total		70,560,000	16,930,636	21,335,443	32,293,921	70,560,000	
	Producer accuracy			0.862	0.243	0.996		
	Global Accuracy				0.736			
	Kappa				0.592			

b, FFPABUTT_FC1

			Prediction					User accuracy
			Type Value	Buildings 1	Terrains 2	Water 3	Total	
GT	Type	Value	Pixel	18,377,721	6,676,684	45,505,595	70,560,000	
	1	100	16,930,636	8,088,571	10,285,821	3,329	18,377,721	0.440
	2	200	21,335,443	1,951,519	4,704,657	20,508	6,676,684	0.705
	3	300	32,293,921	6,890,546	6,344,965	32,270,084	45,505,595	0.709
	Total		70,560,000	16,930,636	21,335,443	3,229,3921	70,560,000	
	Producer accuracy			0.478	0.220	0.999		
	Global Accuracy				0.639			
	Kappa				0.411			

c, FFPABUTT_FC5

			Prediction					User accuracy
			Type Value	Buildings 1	Terrains 2	Water 3	Total	
GT	Type	Value	Pixel	7,931,131	11,044,197	51,584,672	70,560,000	
	1	100	16,930,636	4,883,886	3,044,164	3,081	7,931,131	0.616
	2	200	21,335,443	3,854,007	7,181,549	8,641	11,044,197	0.650
	3	300	32,293,921	8,192,743	11,109,730	32,282,199	51,584,672	0.626
	Total		70,560,000	16,930,636	21,335,443	32,293,921	70,560,000	
							70,560,000	
	Producer accuracy			0.288	0.337	0.9996		
	Global Accuracy				0.628			
	Kappa				0.371			

d, FFPABUTT_FC7

			Prediction					User accuracy
			Type Value	Buildings 1	Terrains 2	Water 3	Total	
GT	Type	Value	Pixel	6,498,166	11,771,893	52,289,941	70,560,000	
	1	100	16,930,636	4,013,510	2,483,752	904	6,498,166	0.618
	2	200	21,335,443	4,547,304	7,161,100	63,489	11,771,893	0.608
	3	300	32,293,921	8,369,822	11,690,591	32,229,528	52,289,941	0.616
	Total		70,560,000	16,930,636	21,335,443	32,293,921	70,560,000	
							70,560,000	
	Producer accuracy			0.237	0.336	0.998		
	Global Accuracy				0.615			
	Kappa				0.346			

e, FFPABUTT_FC12

			Prediction					User accuracy
			Type Value	Buildings 1	Terrains 2	Water 3	Total	
GT	Type	Value	Pixel	6,298,337	11,925,079	52,336,584	70,560,000	
	1	100	16,930,636	4,091,965	2,160,634	45,738	6,298,337	0.650
	2	200	21,335,443	4,606,262	7,226,474	92,343	11,925,079	0.606
	3	300	32,293,921	8,232,409	11,948,335	32,155,840	52,336,584	0.614
	Tota 1		70,560,000	16,930,636	21,335,443	32,293,921	70,560,000	
	Producer accuracy			0.242	0.339	0.996		
	Global Accuracy				0.616			
	Kappa				0.347			

f, FFPABUTT_FC21

			Prediction					User accuracy
			Type Value	Buildings 1	Terrains 2	Water 3	Total	
GT	Type	Value	Pixel	12,221,999	6,041,096	52,296,905	70,560,000	
	1	100	16,930,636	7,359,118	4832661	30,220	12,221,999	0.602
	2	200	21,335,443	1,434,662	4440825	165,609	6,041,096	0.735
	3	300	32,293,921	8,136,856	12061957	32,098,092	52,296,905	0.614
	Total		70,560,000	16,930,636	21,335,443	32,293,921	70,560,000	
	Producer accuracy			0.435	0.208	0.994		
	Global Accuracy				0.622			
	Kappa				0.363			

g, FFPABUTT_FC24

			Prediction					User accuracy
			Type Value	Buildings 1	Terrains 2	Water 3	Total	
GT	Type	Value	Pixel	12,177,425	6,122,181	52,260,394	70,560,000	
	1	100	16,930,636	7,388,017	4,755,730	33,678	12,177,425	0.607
	2	200	21,335,443	1,449,067	4,451,045	222,069	6,122,181	0.727
	3	300	32,293,921	8,093,552	12,128,668	32,038,174	52,260,394	0.613
	Tota 1		70,560,000	16,930,636	21,335,443	32,293,921	70,560,000	
	Producer accuracy			0.436	0.209	0.992		
	Global Accuracy				0.622			
	Kappa				0.363			

h, FFPABUTT_FC28

			Prediction					User accuracy
			Type Value	Buildings 1	Terrains 2	Water 3	Total	
GT	Type	Value	Pixel	11,409,693	6,970,501	52,179,806	70,560,000	
	1	100	16,930,636	7,321,623	4,056,313	31,757	11,409,693	0.642
	2	200	21,335,443	1,587,964	5,142,378	240,159	6,970,501	0.738
	3	300	32,293,921	8,021,049	12,136,752	32,022,005	52,179,806	0.614
	Total		70,560,000	16,930,636	21,335,443	32,293,921	70,560,000	
	Producer accuracy			0.432	0.241	0.992		
	Global Accuracy				0.630			
	Kappa				0.377			

i, FFPABUTT_FC40

			Buildings					User accuracy
			Type Value	Prediction 1	Terrains 2	Water 3	Total	
GT	Type	Value	Pixel	13,175,319	5,482,938	51,901,743	70,560,000	
	1	100	16,930,636	8,351,954	4,787,587	35,778	13,175,319	0.634
	2	200	21,335,443	657,634	4,578,020	247,284	5,482,938	0.835
	3	300	32,293,921	7,921,048	11,969,836	32,010,859	51,901,743	0.617
	Total		70,560,000	16,930,636	21,335,443	32,293,921	70,560,000	
	Producer accuracy			0.493	0.214	0.991		
	Global Accuracy				0.637			
	Kappa				0.390			

j, FFPABUTT_FC60

			Prediction					User accuracy
			Type Value	Buildings 1	Terrains 2	Water 3	Total	
GT	Type	Value	Pixel	11,131,552	8,975,795	50,452,653	70,560,000	
	1	100	16,930,636	7,288,704	3,360,965	481,883	11,131,552	0.655
	2	200	21,335,443	2,045,377	6,655,244	275,174	8,975,795	0.741
	3	300	32,293,921	7,596,555	11319234	31,536,864	50,452,653	0.625
	Total		70,560,000	16,930,636	21,335,443	32,293,921	70,560,000	
	Producer accuracy			0.430	0.312	0.977		
	Global Accuracy				0.645			
	Kappa				0.404			

k, FFPABUTT_FC91

			Prediction					User accuracy
			Type Value	Buildings 1	Terrains 2	Water 3	Total	
GT	Type	Value	Pixel	13,509,084	7,248,943	49,801,973	70,560,000	
	1	100	16,930,636	8,621,765	4,413,243	474,076	13,509,084	0.638
	2	200	21,335,443	987864	5,980,362	280,717	7,248,943	0.825
	3	300	32,293,921	7321007	10,941,838	31,539,128	49,801,973	0.633
	Total		70,560,000	16,930,636	21,335,443	32,293,921	70,560,000	
	Producer accuracy			0.509	0.280	0.977		
	Global Accuracy				0.654			
	Kappa				0.423			