Confusion Matrix

ground truth \ prediction	Low Veg. (0)	Imp. Surface (1)	Vehicle (2)	Urban Furn. (3)	Roof (4)	Facade (5)	Shrub (6)	Tree (7)	Soil / Gravel (8)	Vertical (9)	Chimney (10)	recall
Low Veg. (0) 1,322,085 / 13.7%	86.2%	3.6% 48,093	0.0% 314	1.3% 17,626	0.0% 29	0.5% 6,250	6.6% 87,689	1.3% 16,849	0.3% 4,184	0.1% 1,774	0.0% 2	86.2%
Imp. Surface (1) 954,857 / 9.9%	8.7% 82,974	81.0%	1.3% 12,392	4.2% 39,699	0.5% 4,386	2.0% 18,683	0.9% 8,687	0.0% 468	0.1% 1,080	1.3% 12,815	0.0% 31	81.0%
Vehicle (2) 170,122 / 1.8%	0.9% 1,565	13.3% 22,609	41.1% 69,874	36.3% 61,813	0.5% 779	1.1% 1,947	1.4% 2,348	4.7% 8,009	0.0% 12	0.7% 1,136	0.0% 30	41.1% 69,874
Urban Furn. (3) 501,134 / 5.2%	2.2% 11,181	3.4% 16,881	4.0% 19,872	61.9%	1.4% 7,169	4.3% 21,763	11.2% 56,092	9.0% 45,034	0.0% 128	2.4% 12,104	0.1% 591	61.9%
Roof (4) 1,085,220 / 11.3%	0.8% 8,236	2.7% 29,128	0.3% 2,803	7.0% 76,216	84.6%	1.4% 15,307	0.3% 3,093	0.7% 8,117	0.0% 21,598	0.0% 516	0.2% 2,143	84.6%
Facade (5) 728,808 / 7.6%	0.9% 6,302	1.7% 12,699	0.2% 1,357	23.9%	1.8% 13,275	65.8%	2.5% 18,269	0.5% 3,778	0.0% 191	2.7% 19,590	0.2% 208	65.8%
Shrub (6) 408,253 / 4.2%	2.7% 11,183	0.2% 781	0.5% 1,883	5.9% 23,930	0.1% 269	0.2% 752	65.5%	24.8%	0.0% 30	0.2% 1,013	0.0% 6	65.5%
Tree (7) 4,138,163 / 43.0%	0.9% 36,592	0.0% 45	0.1% 2,216	0.3% 12,435	0.0% 930	0.0% 573	2.7%	96.0%	0.0% 155	0.0% 1,230	0.0% 713	96.0%
Soil / Gravel (8) 157,890 / 1.6%	72.2% 32,585	20.6%	0.0% 2	2.2% 3,421	0.0% 0	0.4% 555	1.8% 2,848	0.0% 59	2.8% 4,401	0.0% 34	0.0% 0	2.8% 4,401
Vertical (9) 148,051 / 1.5%	0.9% 1,283	1.9% 2,855	0.8% 1,194	6.8% 10,028	0.0%	16.1% 23,909	0.2% 232	0.3% 453	0.0% 1	73.0%	0.0% 20	73.0%
Chimney (10) 12,721 / 0.1%	0.0% 2	0.0% 0	0.0% 29	4.4% 555	6.2% 788	1.6% 207	4.1% 517	2.7% 339	0.0% 6	0.0% 0	80.8% 10,278	80.8% 10,278
precision	80.7%	82.4%	62.4% 69,874	42.5%	97.1%	84.2%	47.9%	95.6%	13.8% 4,401	68.3%	73.3% 10,278	
F1 $\mu=66.6\%$	83.3%	81.7%	49.5%	50.4%	90.4%	73.8%	55.3%	95.8%	4.6%	70.6%	76.9%	

prediction column totals: Low Veg. (0) 1,412,578 / 14.7% · Imp. Surface (1) 939,318 / 9.8% · Vehicle (2) 111,936 / 1.2% · Urban Furn. (3) 729,943 / 7.6% · Roof (4) 945,688 / 9.8% · Facade (5) 569,184 / 5.9% · Shrub (6) 558,092 / 5.8% · Tree (7) 4,156,469 / 43.2% · Soil / Gravel (8) 31,786 / 0.3% · Vertical (9) 158,288 / 1.6% · Chimney (10) 14,022 / 0.1%