

Appendix A: Results of the accuracy analysis. First, a traditional confusion matrix is shown. Below, there is the confusion matrix expressed in area proportion following the recommendations of Olofsson et al. (2014)

1990 Error Matrix expressed in unit counts					
LULC	Forest	Arable_land	Wetland	Water	Total
Forest	93	5	11	2	111
Arable_land	2	77	12	0	91
Wetland	5	15	80	13	113
Water	0	1	0	84	85
Total	100	98	103	99	400

Error matrix expressed in area proportion						
LULC	Forest	Arable_land	Wetland	Water	Total	ha
Forest	0.5712	0.0307	0.0676	0.0123	0.6818	1217673
Arable_land	0.0009	0.0338	0.0053	0.0000	0.0399	208219
Wetland	0.0117	0.0352	0.1878	0.0305	0.2653	543597
Water	0.0000	0.0002	0.0000	0.0129	0.0131	116208
Total	0.5838	0.0998	0.2606	0.0557	1.0000	
Overall accuracy					80.57%	
Users accuracy	83.78%	84.62%	70.80%	98.82%	84.50%	
Producers accuracy	97.84%	33.81%	72.06%	23.18%	56.72%	

2004 Error matrix expressed in unit counts					
LULC	Forest	Arable_land	Wetland	Water	Total
Forest	94	4	2	0	100
Arable_land	10	76	14	0	100
Wetland	0	8	92	0	100
Water	2	0	12	86	100
Total	106	88	120	86	400

Error matrix expressed in area proportion						
LULC	Forest	Arable_land	Wetland	Water	Total	ha
Forest	0.6813	0.0290	0.0145	0.0000	0.7248	1440784
Arable_land	0.0103	0.0782	0.0144	0.0000	0.1029	251093
Wetland	0.0000	0.0133	0.1533	0.0000	0.1666	380940
Water	0.0001	0.0000	0.0007	0.0049	0.0057	10207
Total	0.6917	0.1205	0.1829	0.0049	1.0000	
Overall accuracy					91.77%	
Users accuracy	94.00%	76.00%	92.00%	86.00%	87.00%	
Producers accuracy	98.50%	64.89%	83.82%	100.00%	86.80%	

2016 Error matrix expressed in unit counts					
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LULC	Forest	Arable_land	Wetland	Water	Total	
Forest	92	8	0	0	100	
Arable_land	0	96	4	0	100	
Wetland	2	18	80	0	100	
Water	4	2	14	80	100	
Total	98	124	98	80	400	

Error matrix expressed in area proportion						
LULC	Forest	Arable_land	Wetland	Water	Total	ha
Forest	0.6168	0.0536	0.0000	0.0000	0.6705	1292165
Arable_land	0.0000	0.1983	0.0083	0.0000	0.2066	570354
Wetland	0.0024	0.0214	0.0950	0.0000	0.1187	216629
Water	0.0002	0.0001	0.0006	0.0034	0.0042	7086
Total	0.6194	0.2734	0.1038	0.0034	1.0000	
Overall accuracy					91.35%	
Users accuracy	92.00%	96.00%	80.00%	80.00%	87.00%	
Producers accuracy	99.59%	72.53%	91.47%	100.00%	90.90%	