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Post-Soviet Changes in Cropping Practices in the Irrigated Drylands of the Aral Sea Basin

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Supplementary Material

S8: Confusion matrices

Table S 1: Confusion matrix for 1987 populated with probabilities for target classes (WSC: Wet season cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of year and class (N).

Map	Reference						
	WSC.	DSC	DBL	NON	UA	SE(UA)	N
WSC	0.007	0.002	0.001	0.002	0.585	0.087	49
DSC	0.005	0.101	0.005	0.016	0.795	0.025	548
DBL	0.001	0.012	0.007	0.005	0.267	0.053	94
NON	0.003	0.011	0.008	0.805	0.974	0.003	1684
PA	0.436	0.802	0.313	0.973			
SE(PA)	0.083	0.019	0.063	0.005			
N	55	577	85	1658			

Table S 2: Confusion matrix for 1988 populated with probabilities for target classes (WSC: Wet season cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of year and class (N).

Map	Reference						
	WSC.	DSC	DBL	NON	UA	SE(UA)	N
WSC	0.007	0.006	0.001	0.003	0.416	0.076	67
DSC	0.003	0.076	0.005	0.006	0.843	0.026	472
DBL	0.002	0.019	0.01	0.002	0.292	0.038	164
NON	0.003	0.043	0.01	0.804	0.935	0.005	1870
PA	0.442	0.528	0.38	0.987			

SE(PA)	0.074	0.021	0.051	0.003
N	67	722	124	1660

Table S 3: Confusion matrix for 1989 populated with probabilities for target classes (WSC: Wet season cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of year and class (N).

		Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA)	N
Map	WSC	0.007	0.004	0.001	0.003	0.478	0.088	50
	DSC	0.004	0.108	0.006	0.017	0.801	0.023	571
	DBL	0	0.007	0.008	0.002	0.473	0.077	80
	NON	0.002	0.016	0.008	0.804	0.969	0.004	1688
	PA	0.563	0.803	0.356	0.973			
	SE(PA)	0.084	0.023	0.054	0.005			
	N	48	588	107	1646			

Table S 4: Confusion matrix for 1990 populated with probabilities for target classes (WSC: Wet season cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of year and class (N).

		Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA)	N
Map	WSC	0.007	0.003	0.002	0.003	0.474	0.103	55
	DSC	0.003	0.074	0.003	0.005	0.874	0.022	435
	DBL	0	0.029	0.007	0.003	0.174	0.029	192
	NON	0.003	0.035	0.016	0.807	0.937	0.005	1845
	PA	0.499	0.523	0.256	0.987			

SE(PA)	0.081	0.022	0.041	0.004
N	59	692	134	1642

40

41 Table S 5: Confusion matrix for 1991 populated with probabilities for target classes (WSC: Wet season
 42 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 43 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 44 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.006	0.003	0.001	0.004	0.392	0.075 62
	DSC	0.003	0.084	0.002	0.007	0.875	0.023 441
	DBL	0.001	0.021	0.011	0.005	0.29	0.041 152
	NON	0.003	0.023	0.017	0.807	0.949	0.005 1770
	PA	0.446	0.638	0.35	0.981		
	SE(PA)	0.073	0.024	0.045	0.004		
	N	58	592	141	1634		

45

46 Table S 6: Confusion matrix for 1992 populated with probabilities for target classes (WSC: Wet season
 47 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 48 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 49 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.008	0.002	0.001	0.002	0.598	0.091 41
	DSC	0.002	0.081	0.004	0.008	0.855	0.026 321
	DBL	0.001	0.011	0.006	0.003	0.289	0.057 79
	NON	0.004	0.021	0.013	0.822	0.957	0.004 1672
	PA	0.542	0.7	0.26	0.985		

SE(PA)	0.084	0.026	0.05	0.004
N	44	407	97	1565

50

51 Table S 7: Confusion matrix for 1993 populated with probabilities for target classes (WSC: Wet season
52 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
53 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
54 year and class (N).

		Reference					
		WSC.	DSC	DBL	NON	UA	SE(UA) N
Map	WSC	0.011	0.006	0.003	0.003	0.483	0.066 91
	DSC	0.004	0.081	0.003	0.008	0.84	0.023 409
	DBL	0	0.024	0.009	0.006	0.236	0.037 159
	NON	0.004	0.023	0.013	0.8	0.952	0.005 1723
	PA	0.577	0.6	0.33	0.979		
	SE(PA)	0.067	0.026	0.047	0.004		
	N	72	564	123	1623		

55

56 Table S 8: Confusion matrix for 1994 populated with probabilities for target classes (WSC: Wet season
57 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
58 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
59 year and class (N).

		Reference					
		WSC.	DSC	DBL	NON	UA	SE(UA) N
Map	WSC	0.019	0.002	0.004	0.005	0.631	0.06 123
	DSC	0.003	0.084	0.005	0.01	0.816	0.025 477
	DBL	0.002	0.01	0.009	0.003	0.386	0.052 115
	NON	0.005	0.026	0.014	0.799	0.947	0.004 1773
	PA	0.645	0.692	0.279	0.978		

SE(PA)	0.053	0.024	0.039	0.004
N	122	576	152	1638

60

61 Table S 9: Confusion matrix for 1995 populated with probabilities for target classes (WSC: Wet season
62 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
63 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
64 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.028	0.006	0.002	0.003	0.702	0.044 148
	DSC	0.003	0.062	0.005	0.004	0.84	0.031 338
	DBL	0.001	0.012	0.012	0	0.477	0.047 128
	NON	0.01	0.03	0.015	0.803	0.936	0.005 1818
	PA	0.663	0.564	0.348	0.991		
	SE(PA)	0.048	0.026	0.04	0.003		
	N	146	498	169	1619		

65

66 Table S 10: Confusion matrix for 1996 populated with probabilities for target classes (WSC: Wet season
67 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
68 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
69 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.027	0.003	0.003	0.002	0.761	0.046 153
	DSC	0.002	0.073	0.006	0.009	0.807	0.025 405
	DBL	0.001	0.014	0.007	0.004	0.277	0.043 114
	NON	0.007	0.029	0.016	0.794	0.939	0.005 1805
	PA	0.728	0.607	0.222	0.983		

SE(PA)	0.041	0.026	0.035	0.003
N	163	531	148	1635

70

71 Table S 11: Confusion matrix for 1997 populated with probabilities for target classes (WSC: Wet season
 72 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 73 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 74 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.03	0.004	0.003	0.006	0.718	0.039 199
	DSC	0.002	0.066	0.004	0.008	0.83	0.03 400
	DBL	0.001	0.012	0.01	0.008	0.326	0.05 131
	NON	0.011	0.03	0.014	0.792	0.935	0.005 1834
	PA	0.681	0.592	0.33	0.974		
	SE(PA)	0.044	0.025	0.041	0.005		
	N	201	551	159	1653		

75

76 Table S 12: Confusion matrix for 1998 populated with probabilities for target classes (WSC: Wet season
 77 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 78 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 79 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.019	0.006	0.002	0.005	0.616	0.046 159
	DSC	0.003	0.077	0.005	0.01	0.819	0.027 459
	DBL	0.002	0.012	0.009	0.013	0.24	0.04 144
	NON	0.014	0.026	0.014	0.785	0.936	0.005 1831
	PA	0.512	0.638	0.299	0.966		

SE(PA)	0.049	0.024	0.037	0.006
N	175	604	157	1657

80

81 Table S 13: Confusion matrix for 1999 populated with probabilities for target classes (WSC: Wet season
 82 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 83 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 84 year and class (N).

	Reference						
	WSC.	DSC	DBL	NON	UA	SE(UA)	N
Map WSC	0.021	0.002	0.002	0.003	0.727	0.058	148
DSC	0.003	0.083	0.006	0.013	0.785	0.026	495
DBL	0	0.007	0.007	0.003	0.434	0.054	101
NON	0.008	0.03	0.014	0.795	0.937	0.004	1851
PA	0.643	0.676	0.243	0.977			
SE(PA)	0.051	0.022	0.032	0.004			
N	153	613	172	1657			

85

86 Table S 14: Confusion matrix for 2000 populated with probabilities for target classes (WSC: Wet season
 87 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 88 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 89 year and class (N).

	Reference						
	WSC.	DSC	DBL	NON	UA	SE(UA)	N
Map WSC	0.033	0.004	0.003	0.006	0.718	0.038	220
DSC	0.001	0.063	0.004	0.005	0.853	0.021	406
DBL	0	0.005	0.008	0.002	0.506	0.086	84
NON	0.006	0.027	0.015	0.815	0.944	0.004	1868
PA	0.808	0.634	0.263	0.984			

SE(PA)	0.033	0.027	0.034	0.003
N	202	495	160	1721

90

91 Table S 15: Confusion matrix for 2001 populated with probabilities for target classes (WSC: Wet season
 92 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 93 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 94 year and class (N).

		Reference					
		WSC.	DSC	DBL	NON	UA	SE(UA) N
Map	WSC	0.031	0.003	0.003	0.006	0.734	0.036 218
	DSC	0.003	0.049	0.005	0.007	0.77	0.032 338
	DBL	0.001	0.01	0.008	0.002	0.384	0.052 115
	NON	0.007	0.03	0.014	0.823	0.942	0.005 1913
	PA	0.753	0.53	0.279	0.982		
	SE(PA)	0.043	0.027	0.039	0.003		
	N	203	475	154	1752		

95

96 Table S 16: Confusion matrix for 2002 populated with probabilities for target classes (WSC: Wet season
 97 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 98 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 99 year and class (N).

		Reference					
		WSC.	DSC	DBL	NON	UA	SE(UA) N
Map	WSC	0.031	0.003	0.002	0.002	0.811	0.041 138
	DSC	0.001	0.063	0.005	0.009	0.812	0.037 243
	DBL	0.002	0.01	0.01	0.005	0.375	0.065 80
	NON	0.004	0.018	0.017	0.816	0.954	0.005 1653
	PA	0.825	0.668	0.292	0.981		

SE(PA)	0.038	0.036	0.044	0.005
N	138	280	121	1575

100

101 Table S 17: Confusion matrix for 2004 populated with probabilities for target classes (WSC: Wet season
 102 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 103 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 104 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.036	0.003	0.003	0.004	0.774	0.036 215
	DSC	0.002	0.07	0.003	0.004	0.881	0.02 432
	DBL	0.001	0.009	0.006	0.008	0.241	0.05 92
	NON	0.006	0.027	0.014	0.802	0.944	0.005 1817
	PA	0.785	0.648	0.224	0.979		
	SE(PA)	0.032	0.025	0.038	0.005		
	N	215	535	134	1672		

105

106 Table S 18: Confusion matrix for 2005 populated with probabilities for target classes (WSC: Wet season
 107 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 108 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 109 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.03	0.004	0.002	0.004	0.754	0.046 185
	DSC	0.003	0.079	0.004	0.006	0.863	0.02 443
	DBL	0.001	0.01	0.008	0.003	0.383	0.061 106
	NON	0.003	0.024	0.017	0.802	0.948	0.004 1795
	PA	0.824	0.677	0.265	0.984		

SE(PA)	0.033	0.023	0.037	0.004
N	183	544	154	1648

110

111 Table S 19: Confusion matrix for 2006 populated with probabilities for target classes (WSC: Wet season
 112 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 113 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 114 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.034	0.003	0.002	0.004	0.792	0.034 210
	DSC	0.002	0.069	0.003	0.004	0.879	0.02 407
	DBL	0.001	0.009	0.007	0.003	0.355	0.049 94
	NON	0.005	0.026	0.016	0.813	0.946	0.004 1835
	PA	0.824	0.646	0.238	0.987		
	SE(PA)	0.029	0.025	0.034	0.002		
	N	210	520	141	1675		

115

116 Table S 20: Confusion matrix for 2007 populated with probabilities for target classes (WSC: Wet season
 117 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 118 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 119 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.031	0.003	0.002	0.005	0.753	0.037 218
	DSC	0.002	0.069	0.003	0.002	0.902	0.016 396
	DBL	0	0.007	0.008	0.001	0.48	0.057 86
	NON	0.006	0.03	0.017	0.813	0.938	0.005 1866
	PA	0.779	0.63	0.259	0.99		

SE(PA)	0.042	0.025	0.036	0.002
N	207	528	150	1681

120

121 Table S 21: Confusion matrix for 2008 populated with probabilities for target classes (WSC: Wet season
 122 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 123 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 124 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.033	0.003	0.004	0.004	0.736	0.038 222
	DSC	0.002	0.062	0.003	0.004	0.884	0.019 366
	DBL	0.001	0.004	0.006	0.001	0.524	0.073 66
	NON	0.007	0.028	0.018	0.82	0.939	0.004 1894
	PA	0.785	0.639	0.199	0.989		
	SE(PA)	0.034	0.026	0.031	0.002		
	N	212	473	157	1706		

125

126 Table S 22: Confusion matrix for 2009 populated with probabilities for target classes (WSC: Wet season
 127 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 128 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 129 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.037	0.003	0.004	0.004	0.757	0.037 246
	DSC	0.001	0.063	0.007	0.005	0.826	0.022 412
	DBL	0.001	0.004	0.012	0.001	0.667	0.054 102
	NON	0.009	0.023	0.02	0.805	0.94	0.005 1848
	PA	0.777	0.677	0.284	0.986		

SE(PA)	0.038	0.028	0.033	0.003
N	241	467	226	1674

130

131 Table S 23: Confusion matrix for 2010 populated with probabilities for target classes (WSC: Wet season
 132 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 133 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 134 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.027	0.003	0.003	0.002	0.762	0.042 189
	DSC	0.001	0.055	0.005	0.002	0.875	0.02 355
	DBL	0.001	0.014	0.011	0.006	0.342	0.045 143
	NON	0.012	0.032	0.024	0.802	0.922	0.005 1930
	PA	0.651	0.53	0.254	0.988		
	SE(PA)	0.041	0.025	0.03	0.004		
	N	218	513	226	1660		

135

136 Table S 24: Confusion matrix for 2011 populated with probabilities for target classes (WSC: Wet season
 137 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 138 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 139 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.026	0.002	0.003	0.01	0.638	0.049 211
	DSC	0.002	0.068	0.003	0.009	0.826	0.024 414
	DBL	0.001	0.005	0.008	0.007	0.386	0.065 90
	NON	0.005	0.022	0.023	0.807	0.942	0.004 1868
	PA	0.745	0.702	0.219	0.97		

SE(PA)	0.038	0.026	0.029	0.005
N	189	480	194	1720

140

141 Table S 25: Confusion matrix for 2012 populated with probabilities for target classes (WSC: Wet season
 142 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 143 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 144 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.022	0.002	0.004	0.004	0.698	0.049 163
	DSC	0.002	0.074	0.003	0.009	0.847	0.024 406
	DBL	0.002	0.009	0.009	0.006	0.353	0.052 120
	NON	0.01	0.028	0.019	0.798	0.933	0.005 1891
	PA	0.612	0.653	0.26	0.978		
	SE(PA)	0.047	0.025	0.033	0.004		
	N	175	539	180	1686		

145

146 Table S 26: Confusion matrix for 2014 populated with probabilities for target classes (WSC: Wet season
 147 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 148 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 149 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.03	0.002	0.003	0.004	0.777	0.039 206
	DSC	0.001	0.07	0.003	0.008	0.845	0.024 409
	DBL	0	0.003	0.013	0.005	0.605	0.077 117
	NON	0.007	0.026	0.02	0.804	0.938	0.005 1862
	PA	0.776	0.697	0.331	0.979		

SE(PA)	0.037	0.027	0.033	0.004
N	196	498	211	1689

150

151 Table S 27: Confusion matrix for 2015 populated with probabilities for target classes (WSC: Wet season
 152 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 153 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 154 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.034	0.003	0.003	0.005	0.757	0.039 213
	DSC	0.001	0.073	0.004	0.003	0.905	0.019 403
	DBL	0.001	0.012	0.013	0.008	0.384	0.045 164
	NON	0.004	0.02	0.019	0.798	0.948	0.004 1820
	PA	0.848	0.67	0.337	0.981		
	SE(PA)	0.032	0.024	0.033	0.004		
	N	188	536	204	1672		

155

156 Table S 28: Confusion matrix for 2016 populated with probabilities for target classes (WSC: Wet season
 157 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 158 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 159 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.03	0.005	0.004	0.004	0.704	0.041 219
	DSC	0.001	0.064	0.003	0.001	0.924	0.014 345
	DBL	0.002	0.012	0.016	0.003	0.485	0.04 191
	NON	0.004	0.021	0.024	0.805	0.942	0.004 1854
	PA	0.804	0.625	0.345	0.99		

SE(PA)	0.035	0.026	0.031	0.002
N	196	489	256	1668

160

161 Table S 29: Confusion matrix for 2017 populated with probabilities for target classes (WSC: Wet season
 162 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 163 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 164 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.03	0.005	0.003	0.003	0.731	0.042 191
	DSC	0.001	0.059	0.004	0.001	0.911	0.019 348
	DBL	0.002	0.013	0.021	0.004	0.519	0.037 231
	NON	0.003	0.026	0.021	0.805	0.942	0.004 1845
	PA	0.836	0.576	0.424	0.99		
	SE(PA)	0.031	0.027	0.032	0.002		
	N	169	503	276	1667		

165

166 Table S 30: Confusion matrix for 2018 populated with probabilities for target classes (WSC: Wet season
 167 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 168 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 169 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.022	0.004	0.004	0.006	0.612	0.048 191
	DSC	0.001	0.067	0.007	0.006	0.832	0.028 395
	DBL	0.001	0.007	0.012	0.005	0.475	0.048 138
	NON	0.005	0.026	0.021	0.805	0.939	0.005 1868
	PA	0.791	0.639	0.276	0.978		

SE(PA)	0.05	0.027	0.028	0.004
N	152	503	236	1701

170

171 Table S 31: Confusion matrix for 2019 populated with probabilities for target classes (WSC: Wet season
 172 cropping, DSC: Dry season cropping, DBL: Double cropping, NON: Non cropland), user's (UA) and
 173 producer's accuracy (PA), associated standard errors (SE) and number of samples for the combination of
 174 year and class (N).

Map	Reference						
		WSC.	DSC	DBL	NON	UA	SE(UA) N
	WSC	0.033	0.003	0.004	0.002	0.789	0.03 203
	DSC	0.001	0.06	0.005	0.002	0.888	0.023 338
	DBL	0.001	0.012	0.025	0.006	0.572	0.043 232
	NON	0.005	0.02	0.023	0.8	0.944	0.004 1846
	PA	0.842	0.63	0.437	0.988		
	SE(PA)	0.035	0.028	0.034	0.003		
	N	178	468	302	1671		

175