Supplementary material

Table S1. Percentage of pixels of bare soil frequency classes for the monthly-average over the four-years of Ferrara region.

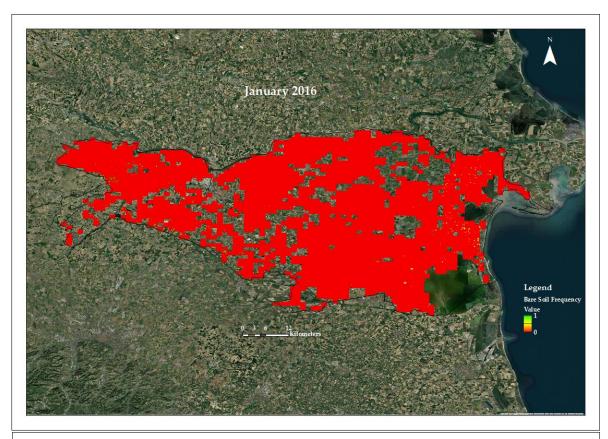
Bare soil frequency class	January	February	March	April	May	June	July	August	September	October	November	December
100%	0.01	0.94	7.67	13.06	0.06	0.49	4.02	10.32	8.23	0.82	0.68	0.00
75%	0.09	4.96	5.66	2.26	0.42	1.70	7.30	6.41	9.75	9.21	0.07	0.01
50%	0.19	4.99	3.68	2.15	4.71	6.51	1.83	7.58	7.80	7.78	0.87	0.09
25%	1.27	6.35	4.56	1.69	2.90	7.49	9.67	4.13	10.04	17.36	0.02	3.89
0%	98.45	82.76	78.43	80.84	91.90	83.81	77.19	71.56	64.18	64.83	98.36	96.01

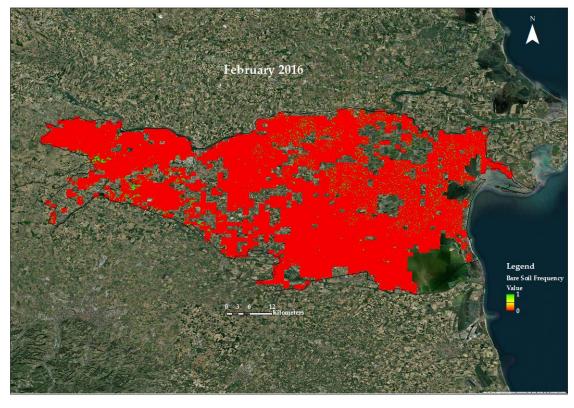
Table S2. Percentage of pixels of bare soil frequency classes for the monthly-average over the four-years of Roma region.

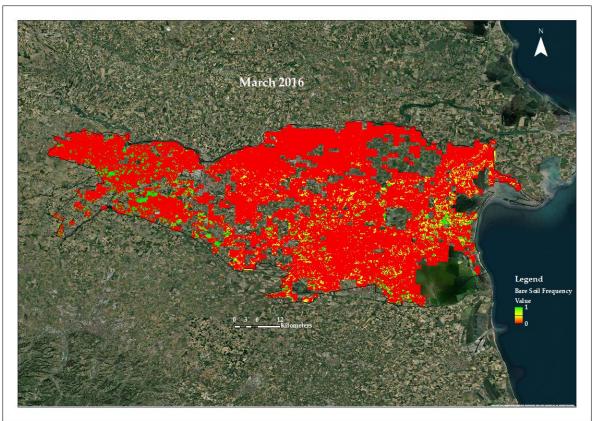
Bare soil frequency class	January	February	March	April	May	June	July	August	September	October	November	December
100%	0.00	0.37	0.79	0.55	0.22	0.62	5.74	4.16	1.34	1.03	1.06	0.00
75%	0.08	1.01	1.51	0.32	0.20	2.19	6.12	5.65	4.21	3.34	0.12	0.08
50%	0.60	0.83	0.86	0.71	0.46	2.27	7.99	6.17	7.42	4.32	1.22	0.60
25%	0.65	2.48	2.10	0.72	0.84	4.55	6.25	6.82	8.02	4.08	0.35	0.65
0%	98.66	95.31	94.74	97.70	98.28	90.38	73.91	77.20	79.01	87.23	97.24	98.66

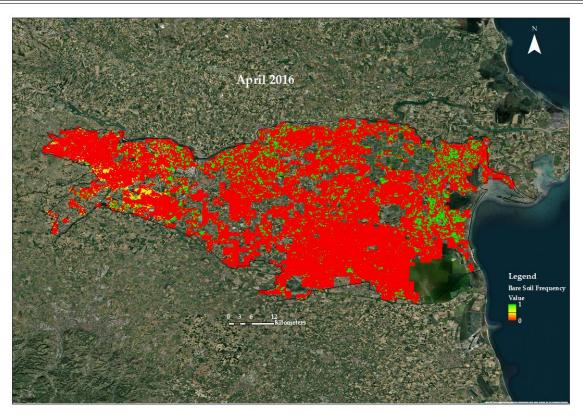
Table S3. Percentage of pixels of bare soil frequency classes for the monthly-average over the four-years of Capitanata region.

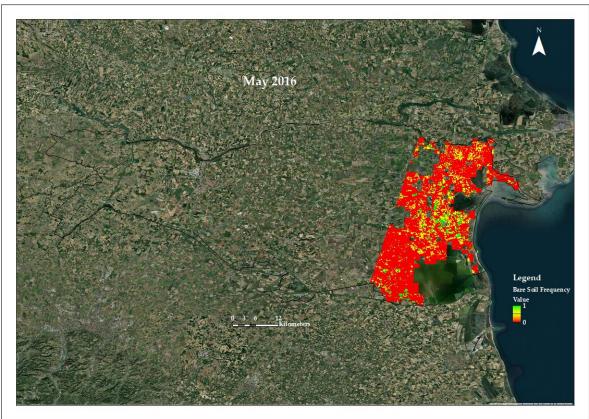
Bare soil frequency class	January	February	March	April	May	June	July	August	September	October	November	December
100%	0.04	0.24	2.12	0.00	2.14	14.87	40.67	54.74	54.33	13.70	5.11	0.04
75%	0.29	1.68	2.81	0.00	2.13	36.49	24.63	14.48	17.14	27.55	1.69	0.29
50%	1.88	4.48	3.36	5.36	3.79	0.03	3.32	3.01	0.02	27.92	0.63	1.88
25%	11.61	4.47	4.10	0.01	3.44	24.22	7.17	5.55	9.59	5.45	0.75	11.61
0%	86.18	89.13	87.62	94.63	88.50	24.40	24.22	22.22	18.93	25.38	91.81	86.18

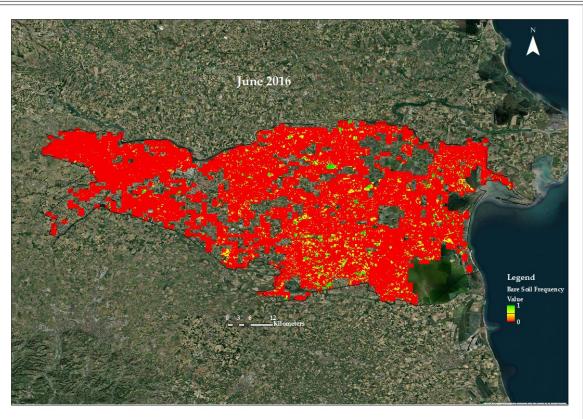


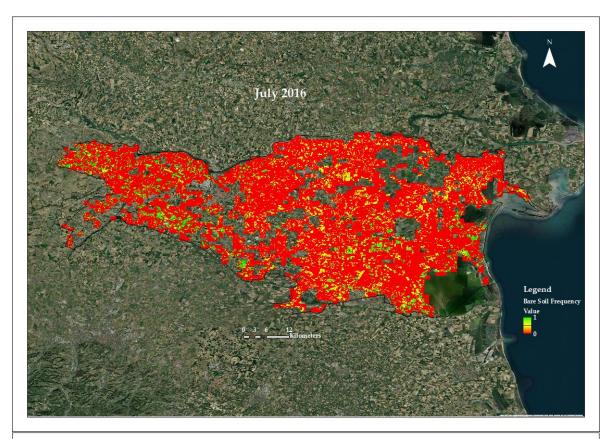


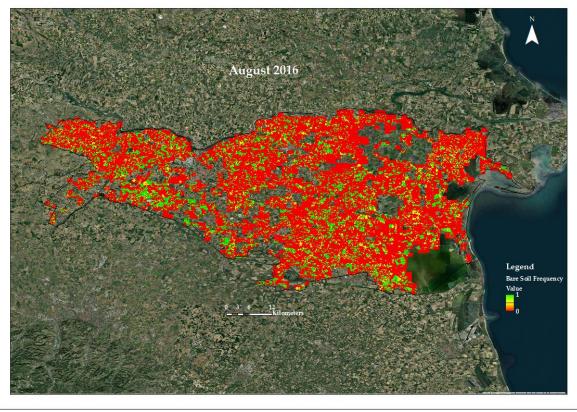


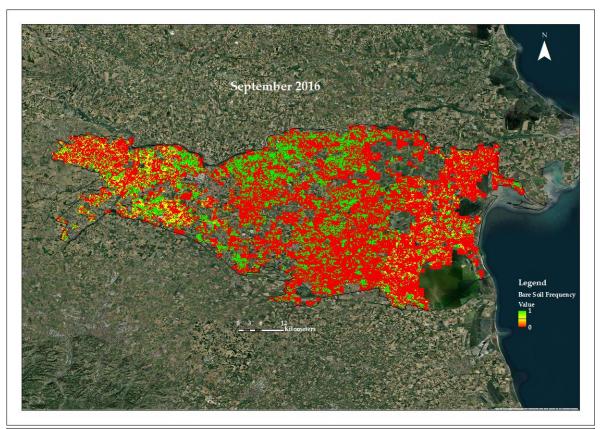


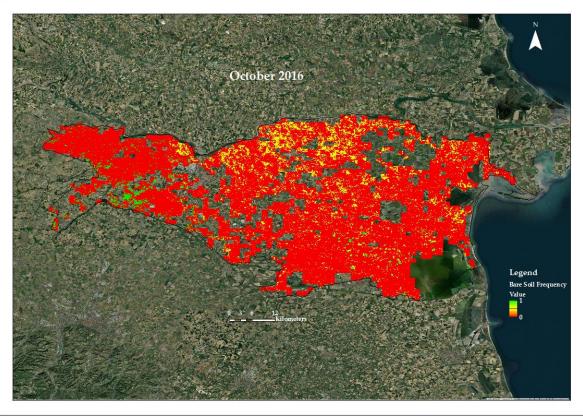


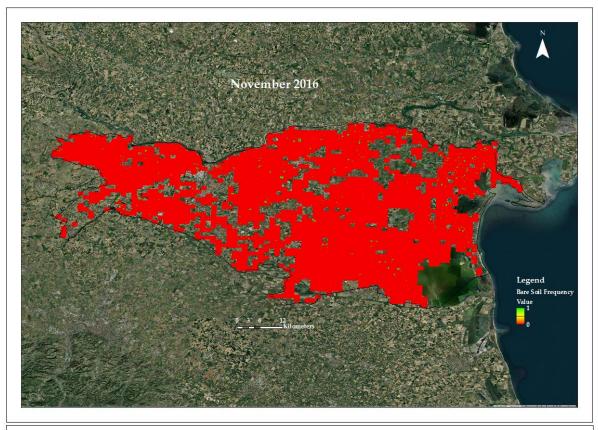












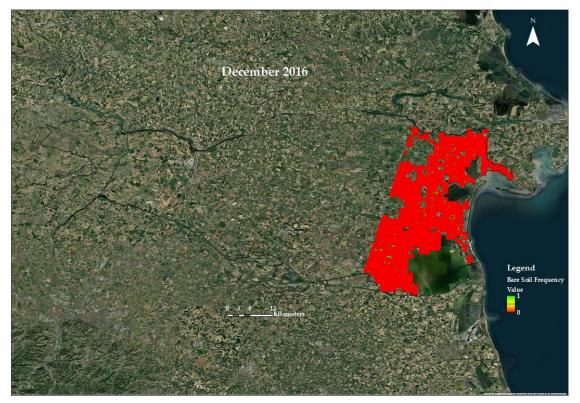
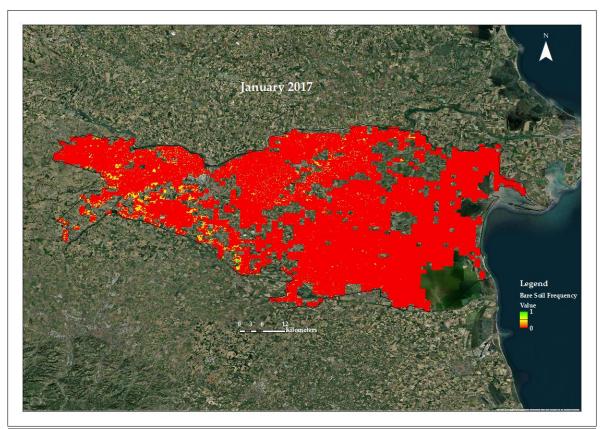
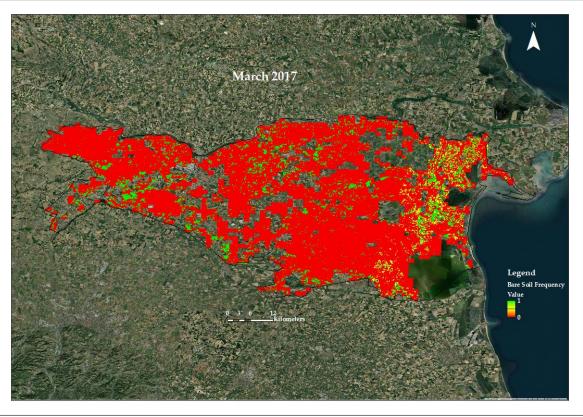
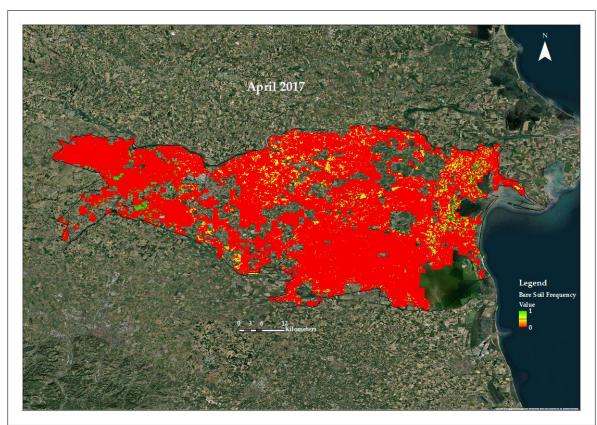
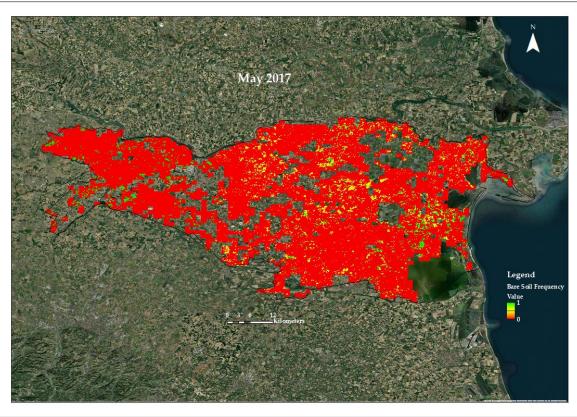


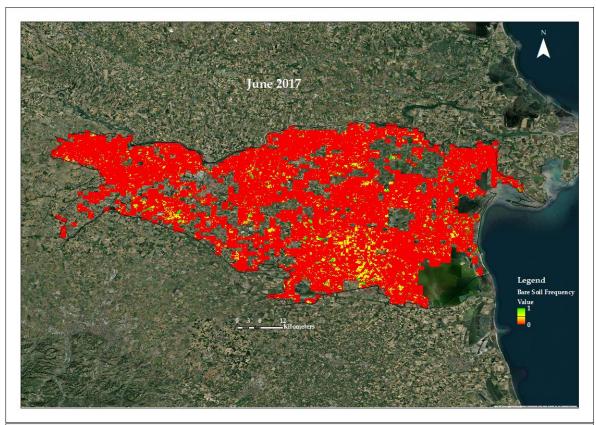
Figure S1. Yearly Bare Soil Frequency of the Ferrara region for the agricultural year 2016.

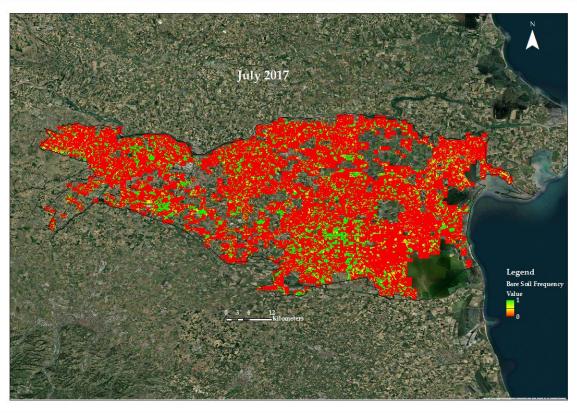


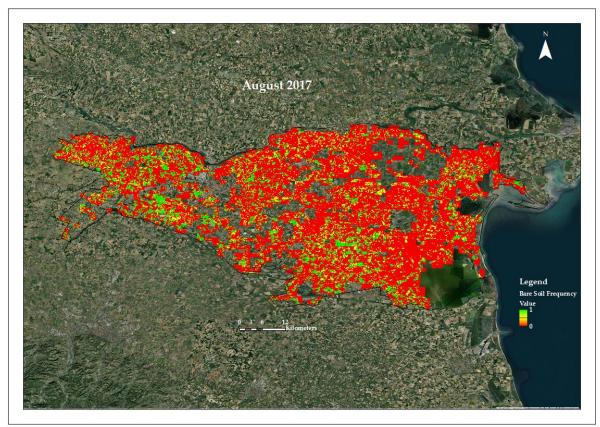


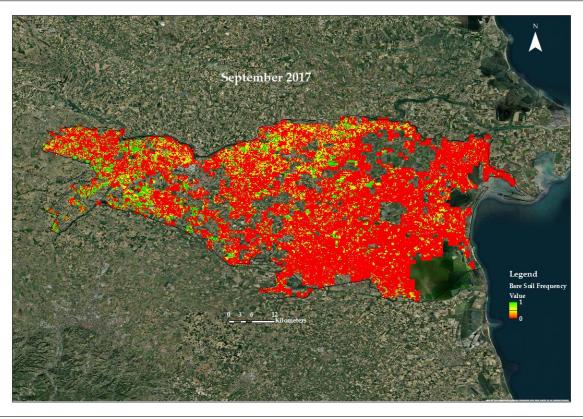


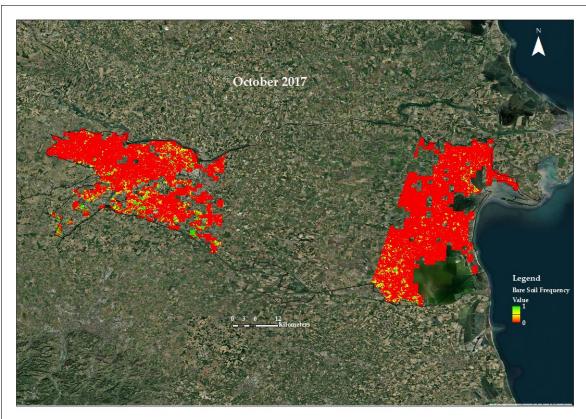














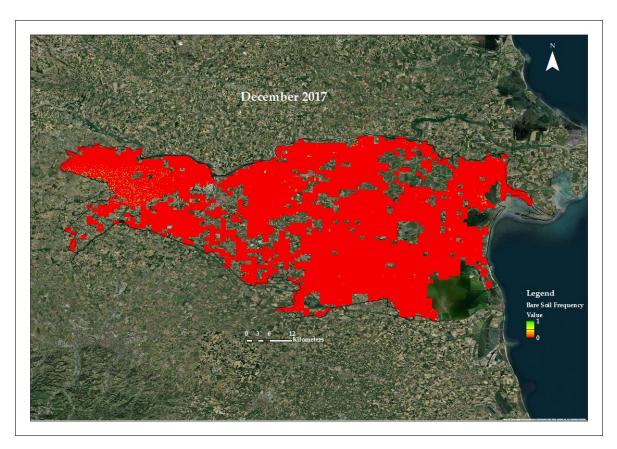
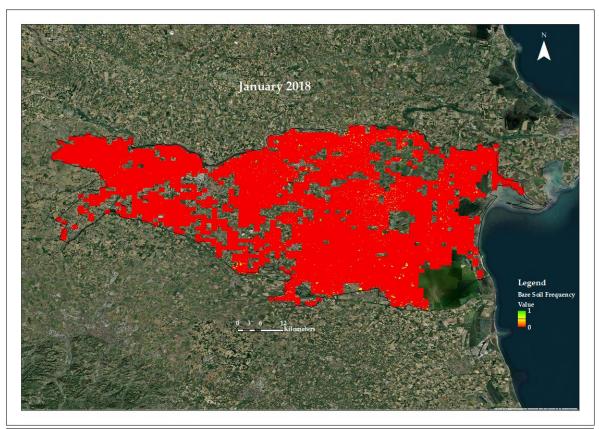
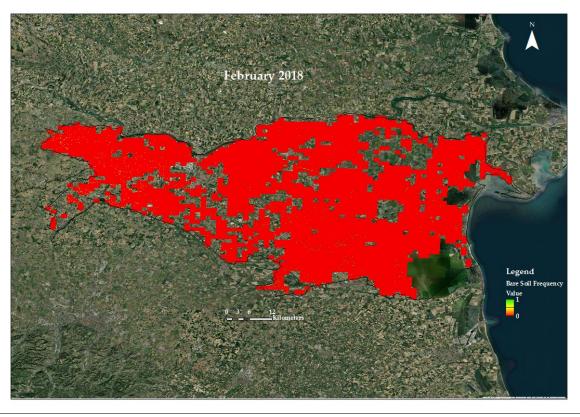
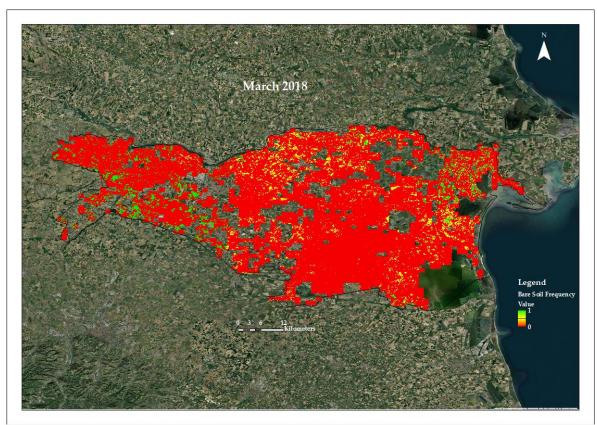
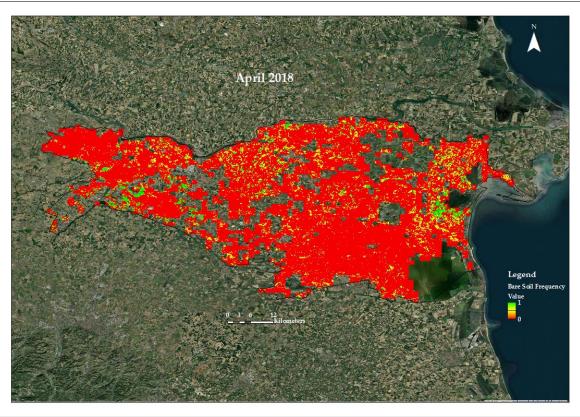


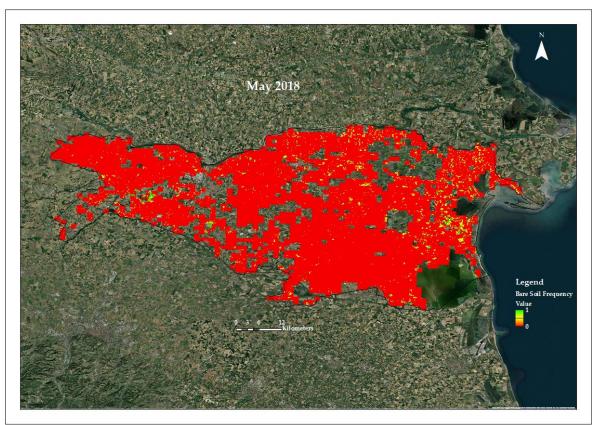
Figure S2. Yearly Bare Soil Frequency of the Ferrara region for the agricultural year 2017.

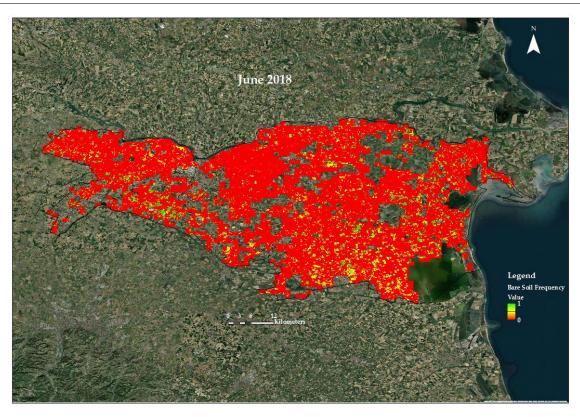


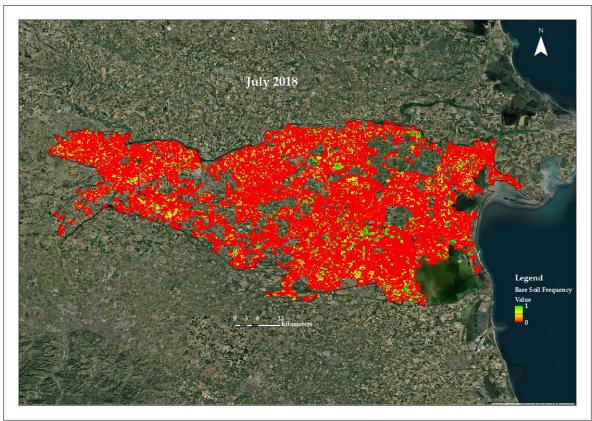


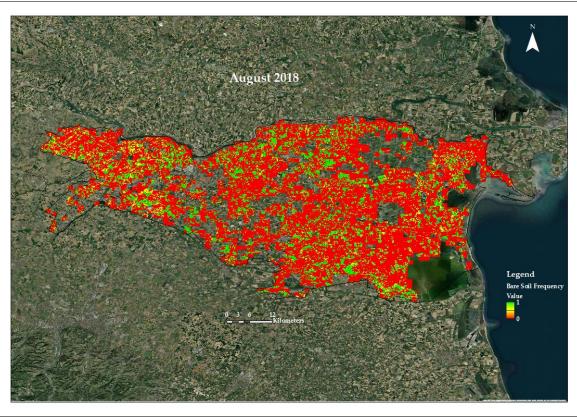


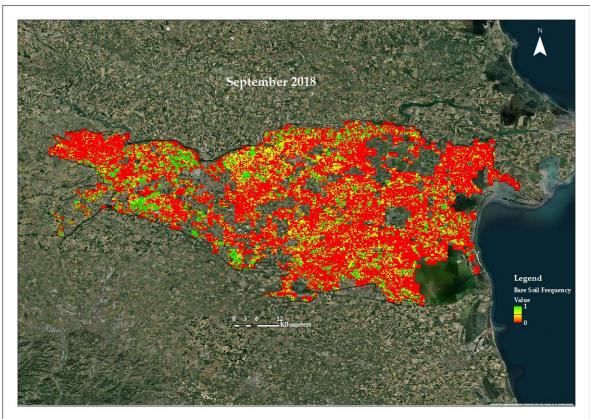


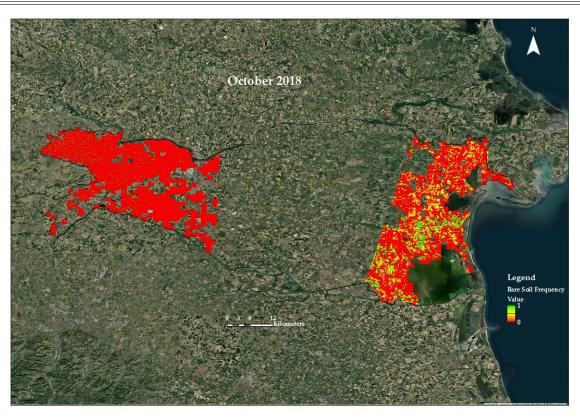


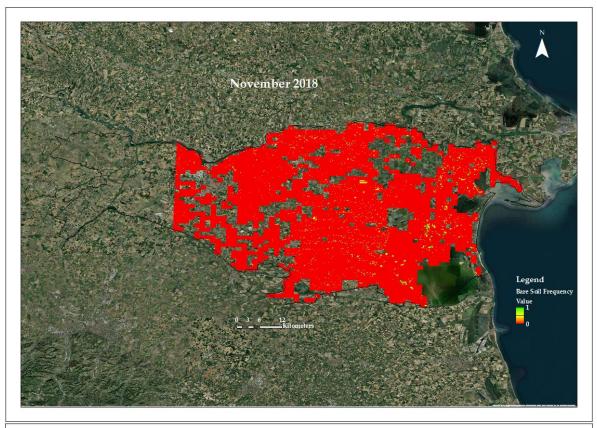












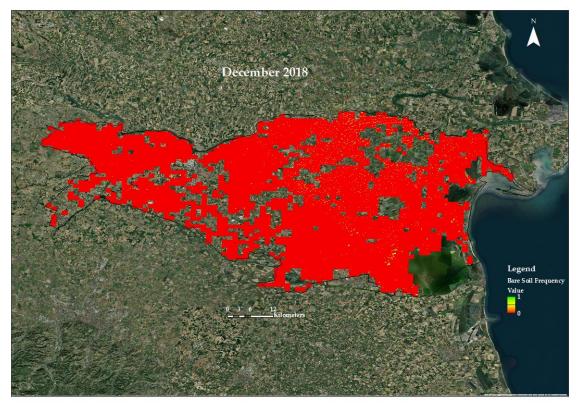
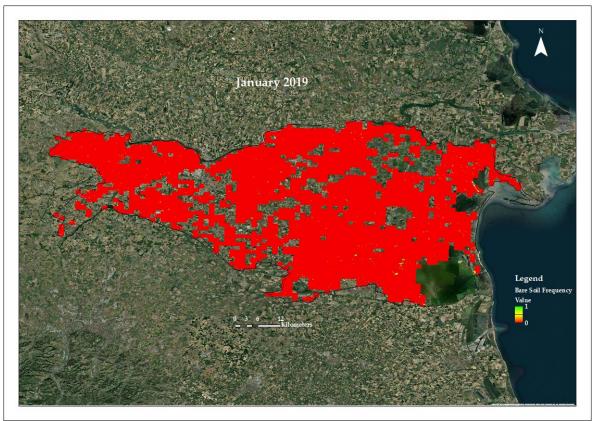
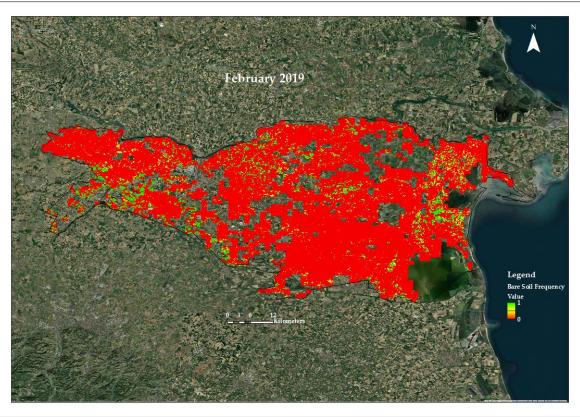
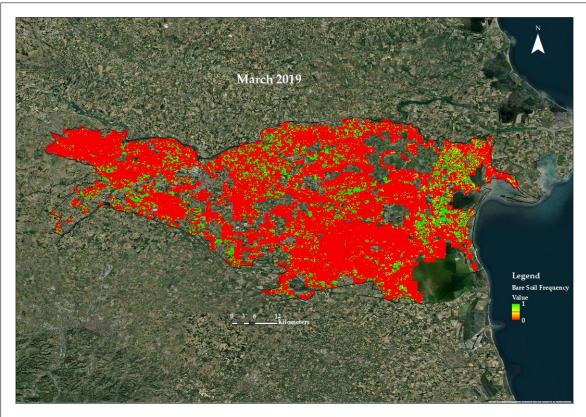
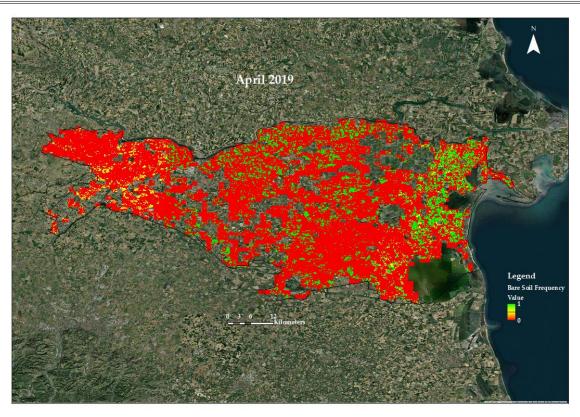


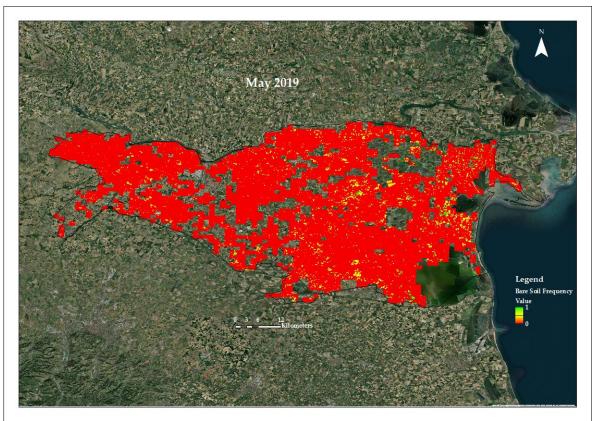
Figure S3. Yearly Bare Soil Frequency of the Ferrara region for the agricultural year 2018.

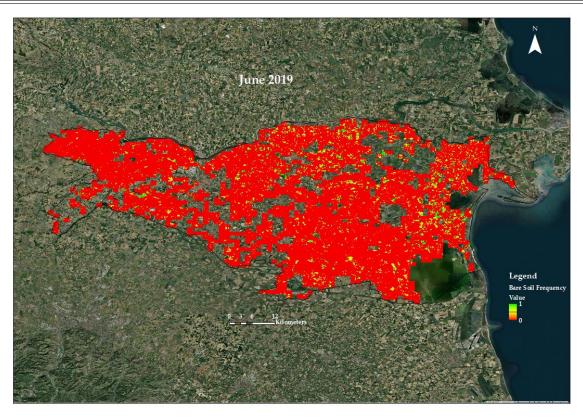


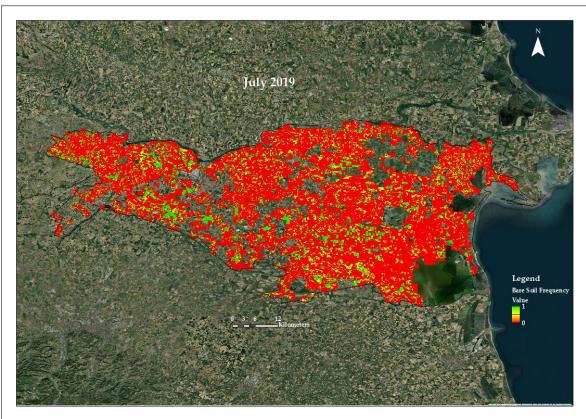


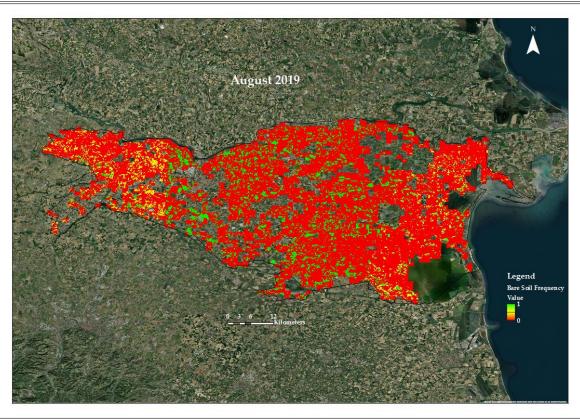


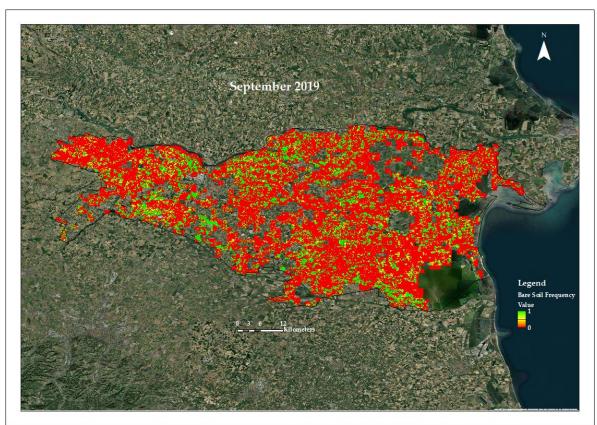


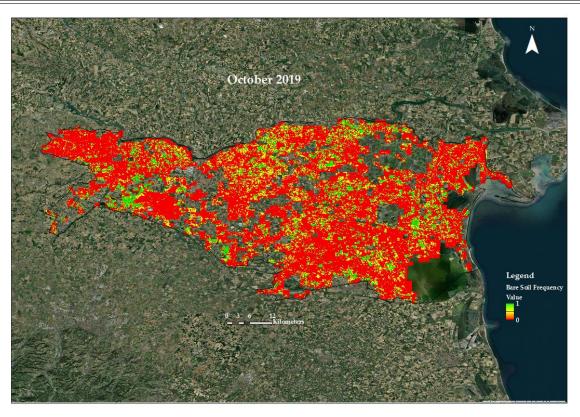












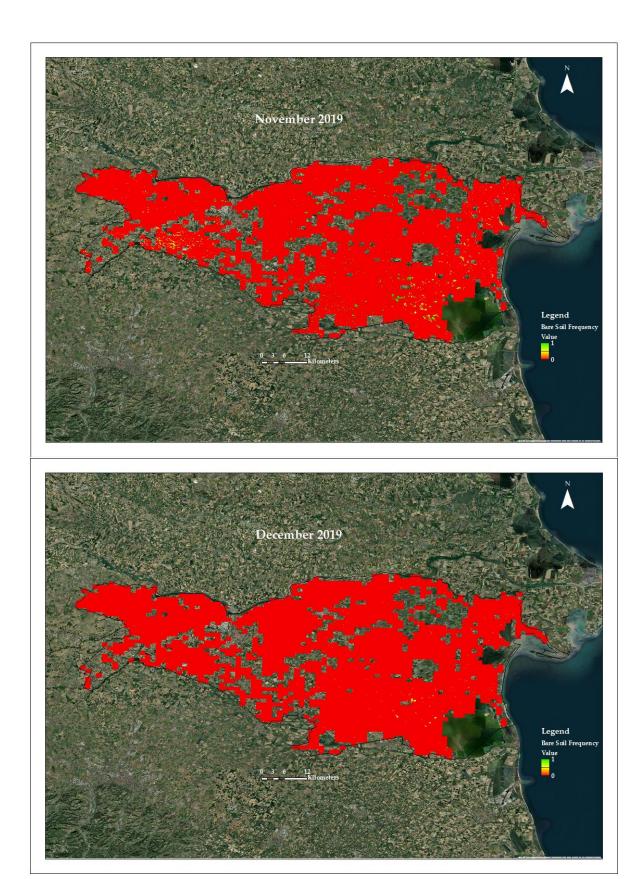
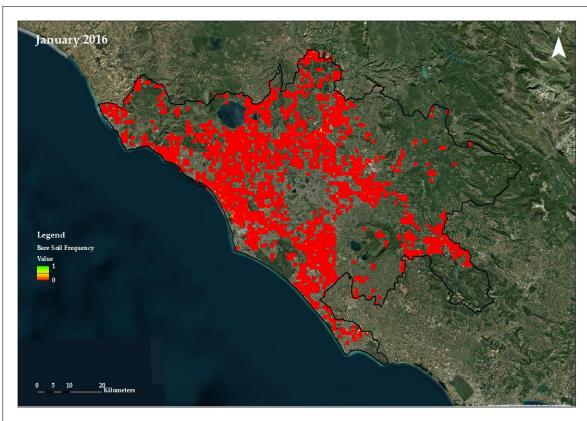
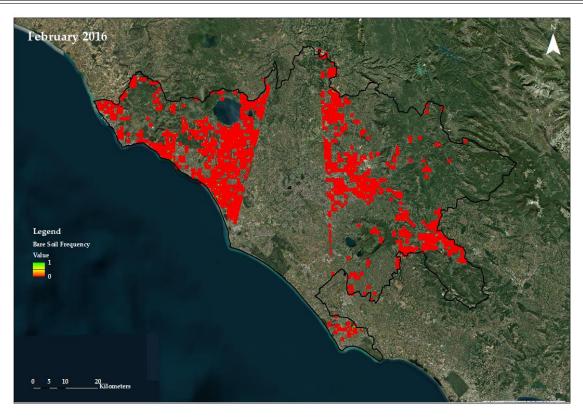
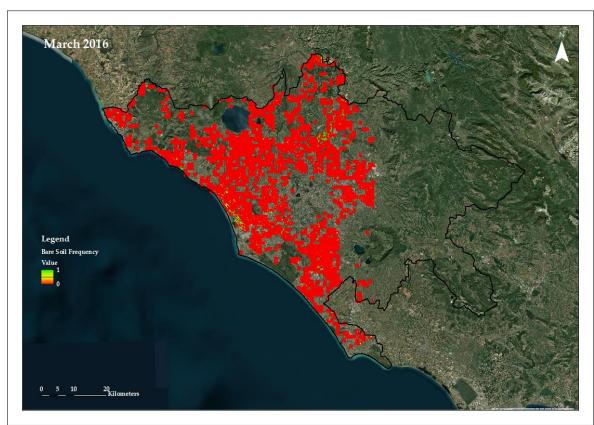
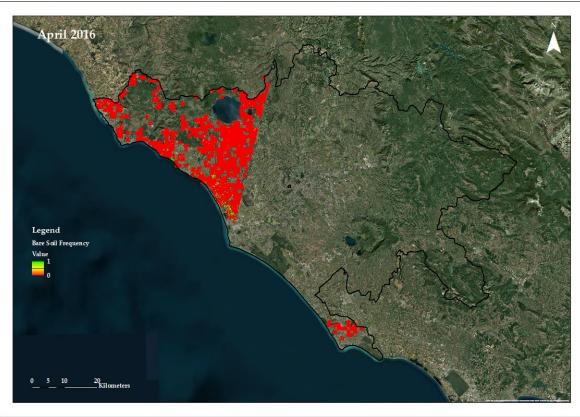


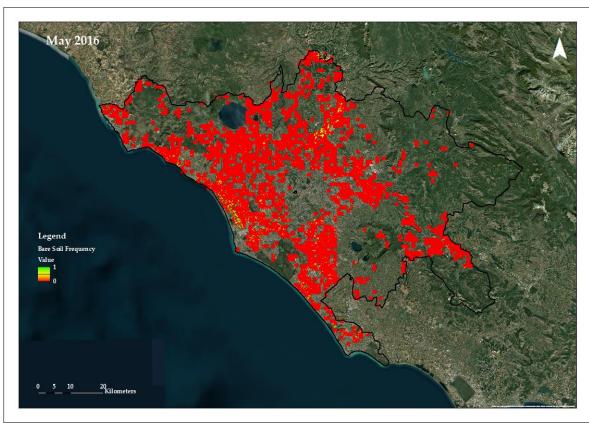
Figure S4. Yearly Bare Soil Frequency of the Ferrara region for the agricultural year 2019.

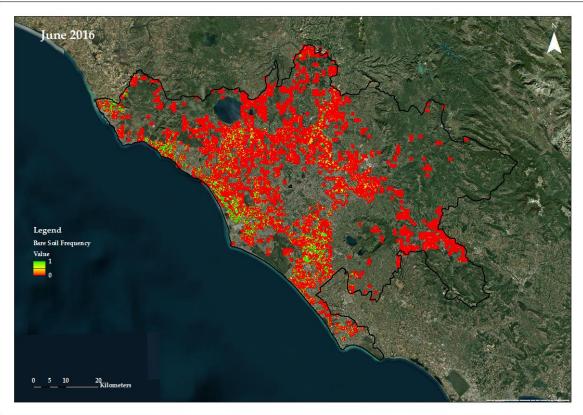


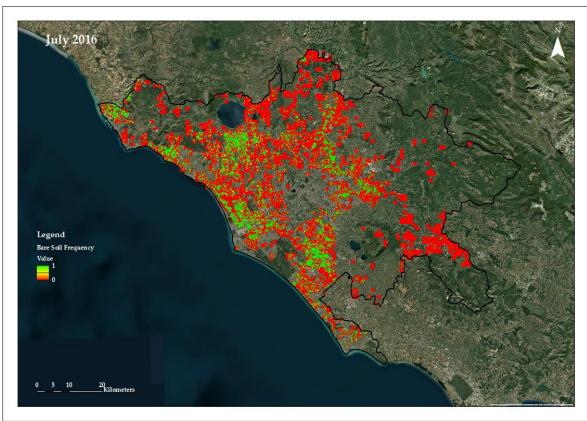


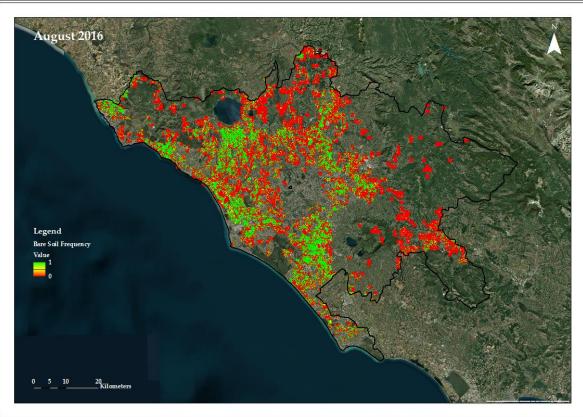


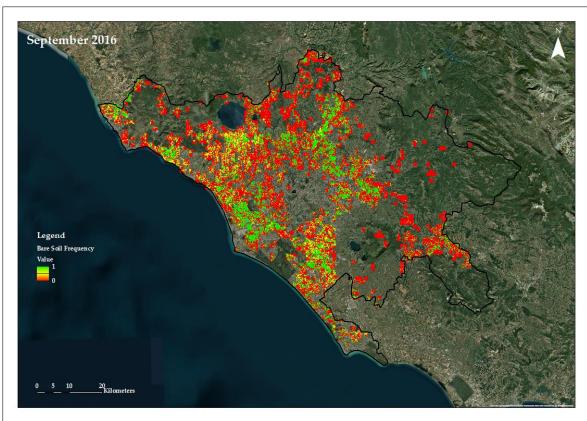


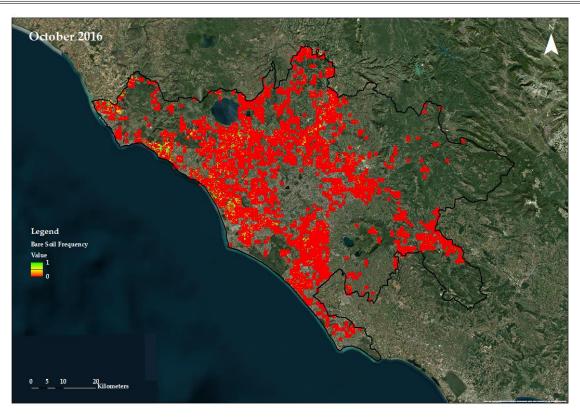


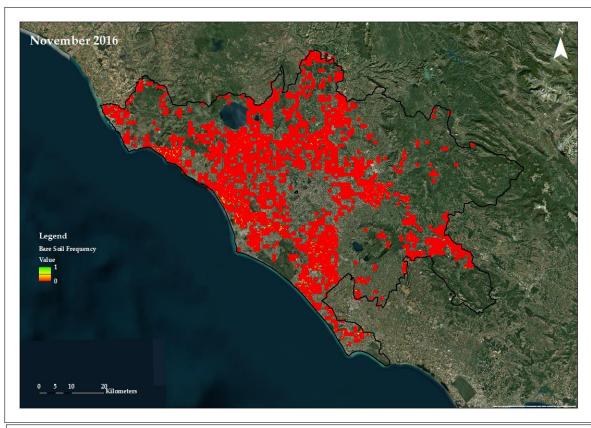












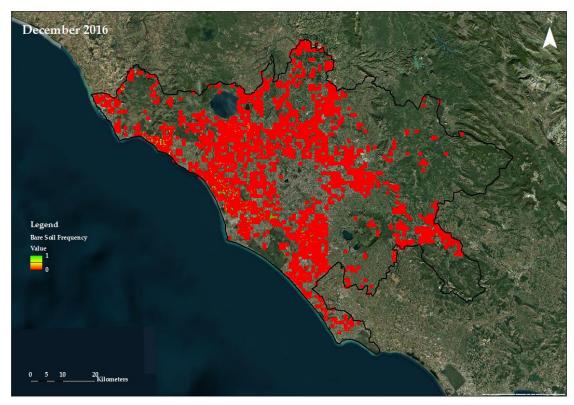
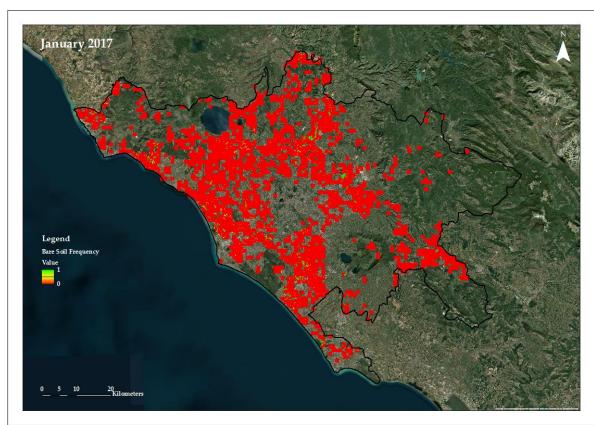
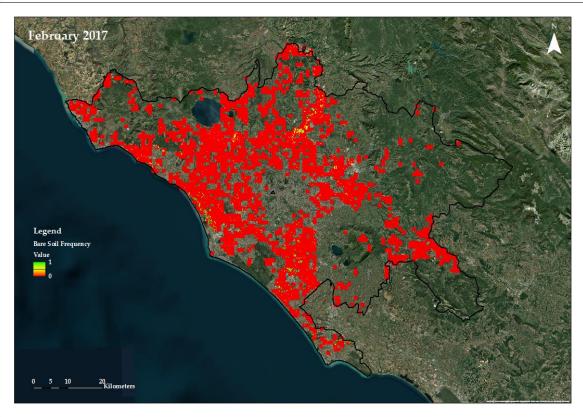
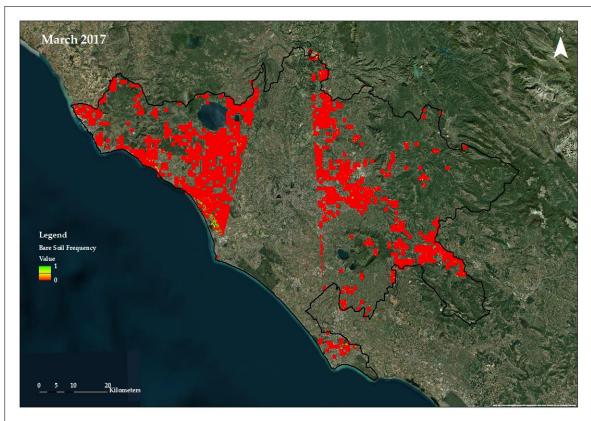
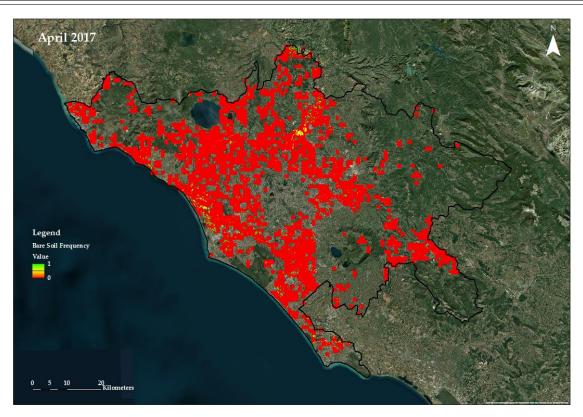


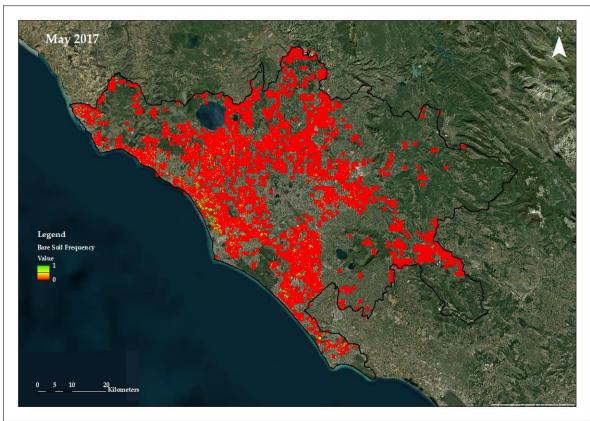
Figure S5. Yearly Bare Soil Frequency of the Roma region for the agricultural year 2016.

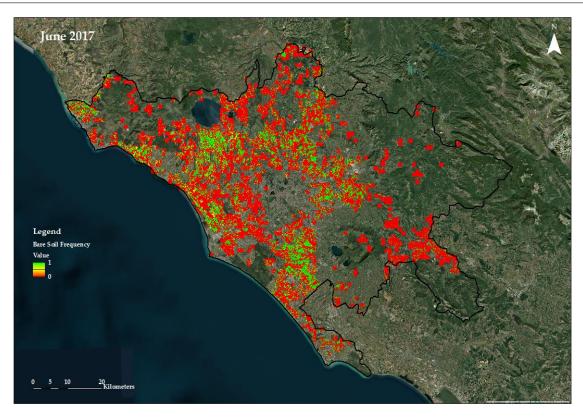


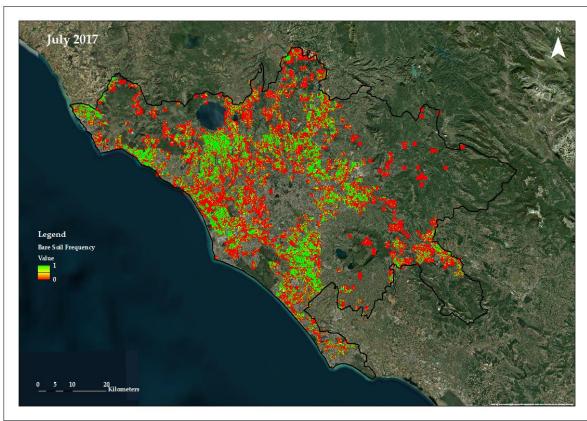


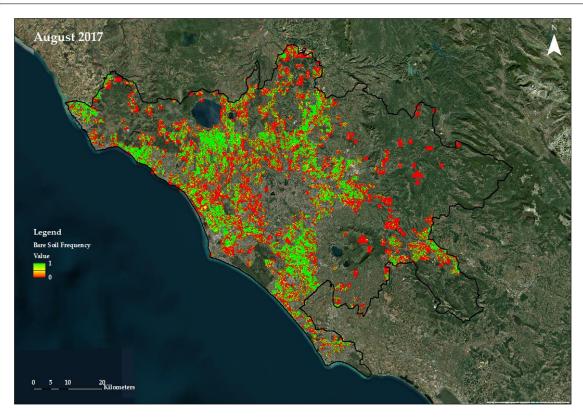


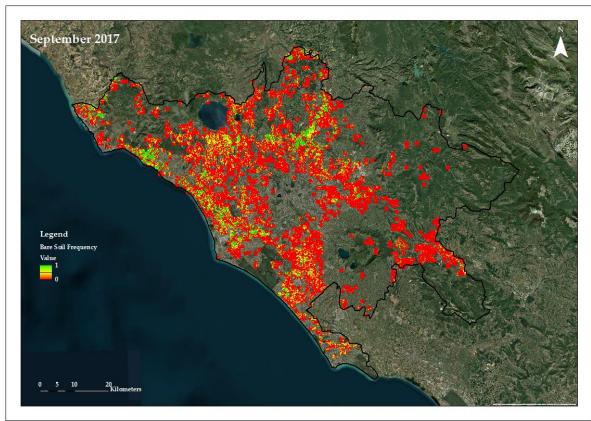


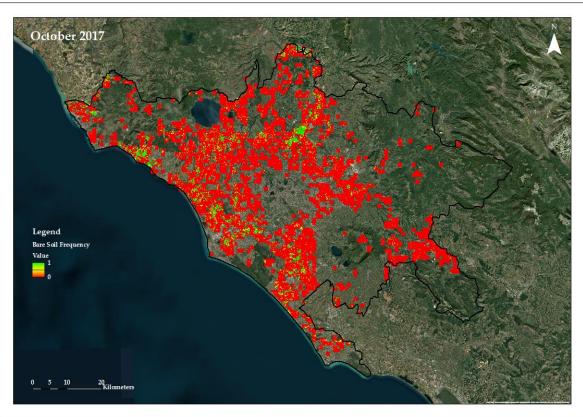


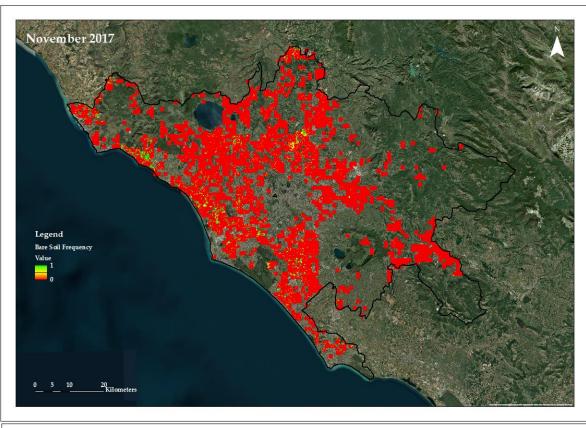












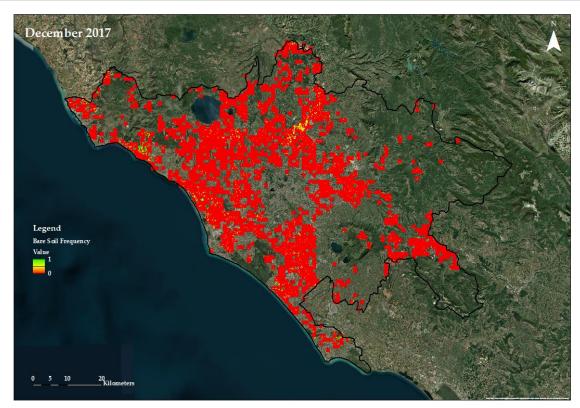
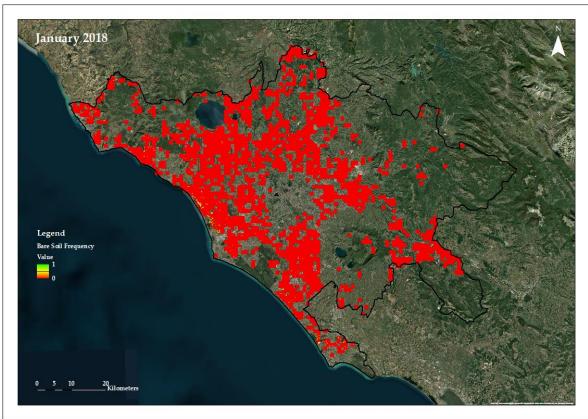
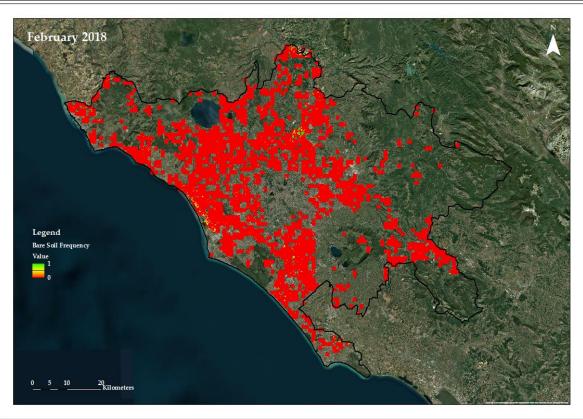
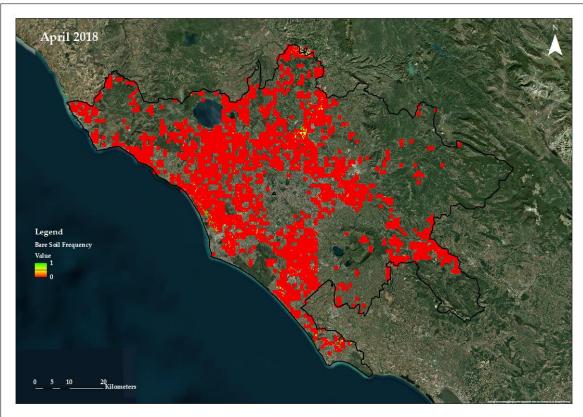


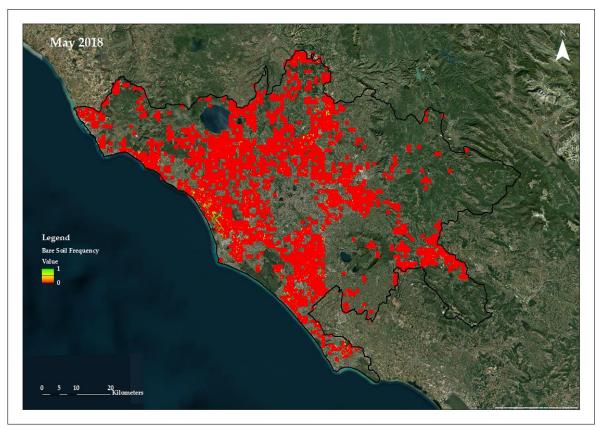
Figure S6. Yearly Bare Soil Frequency of the Roma region for the agricultural year 2017.

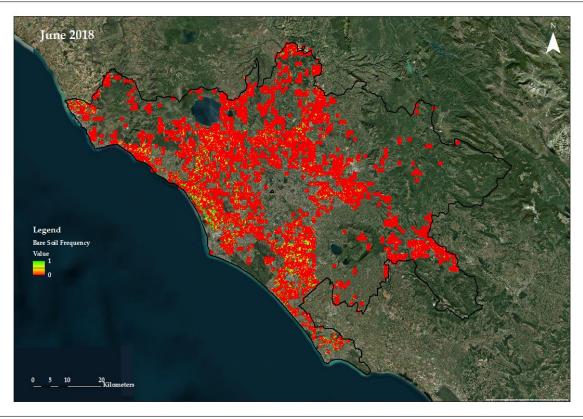


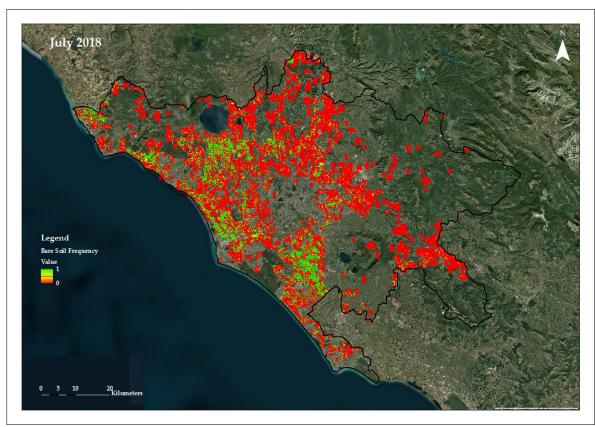


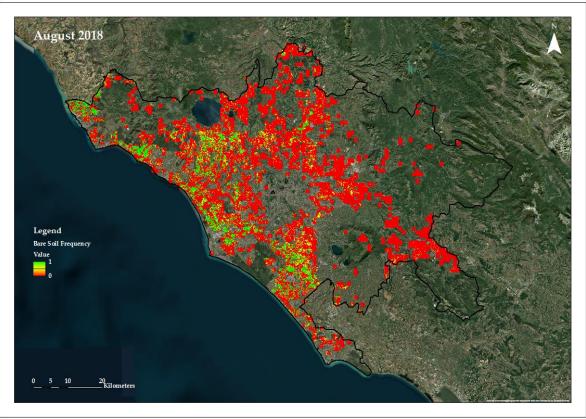


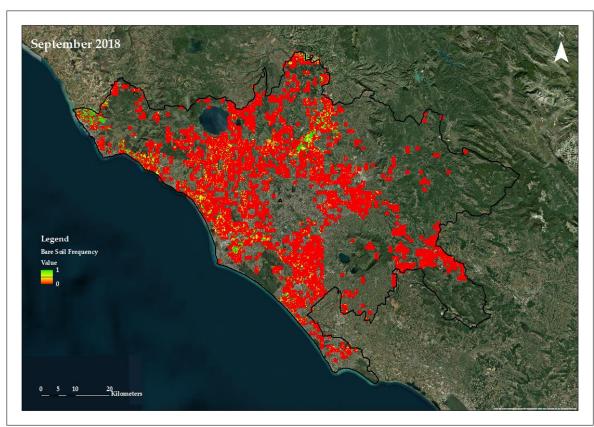


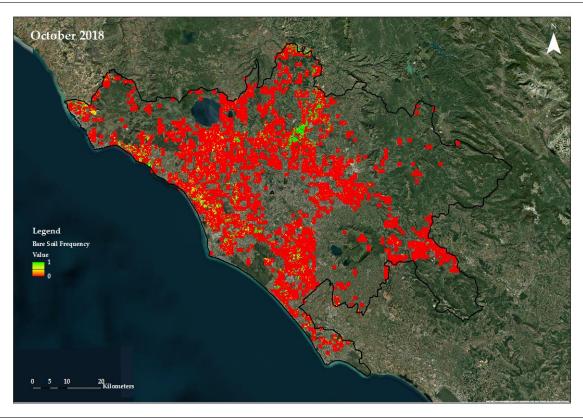


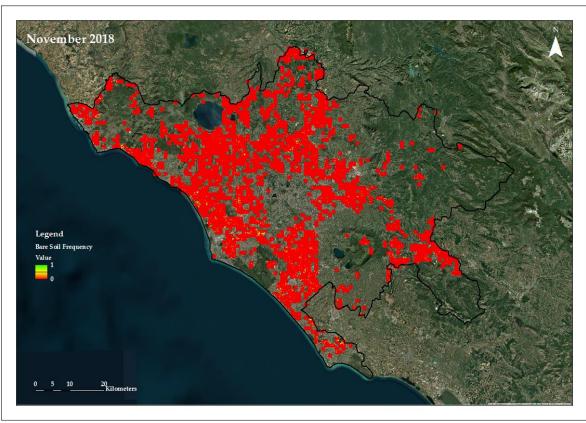












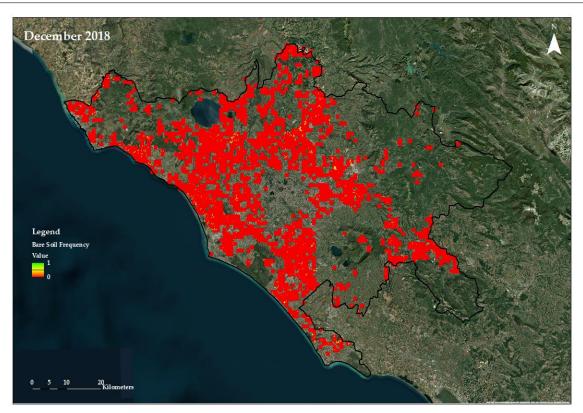
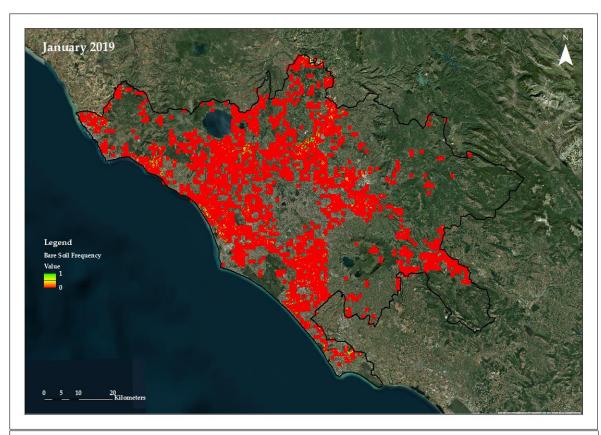
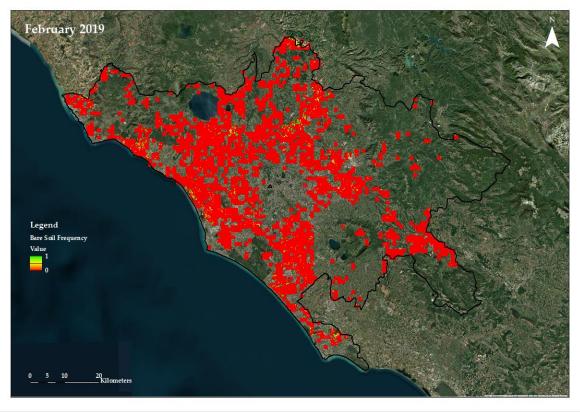
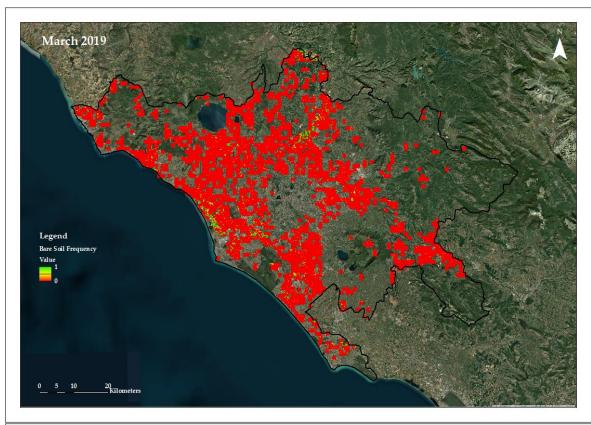
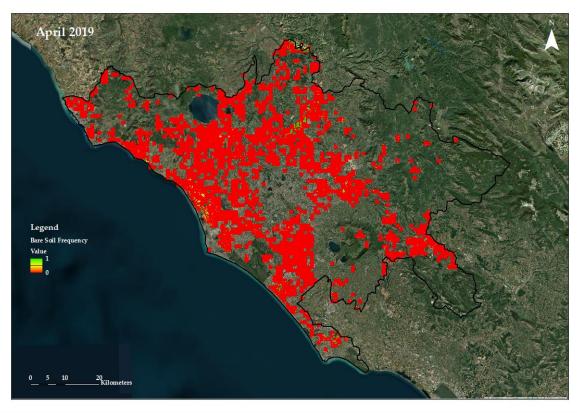


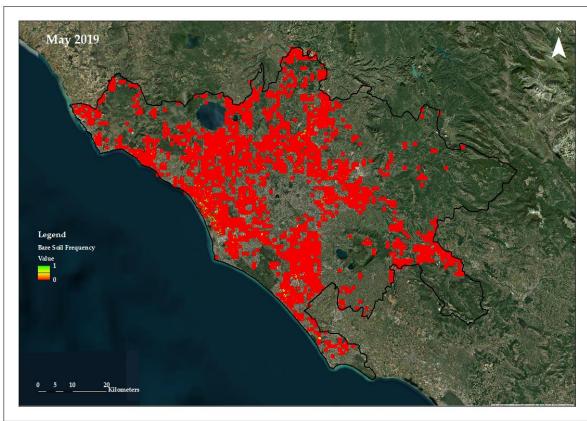
Figure S7. Yearly Bare Soil Frequency of the Roma region for the agricultural year 2018.

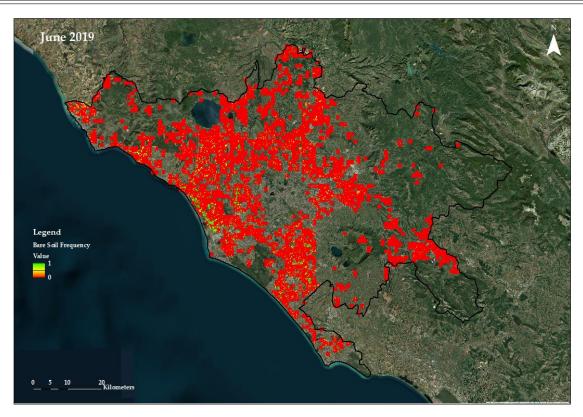


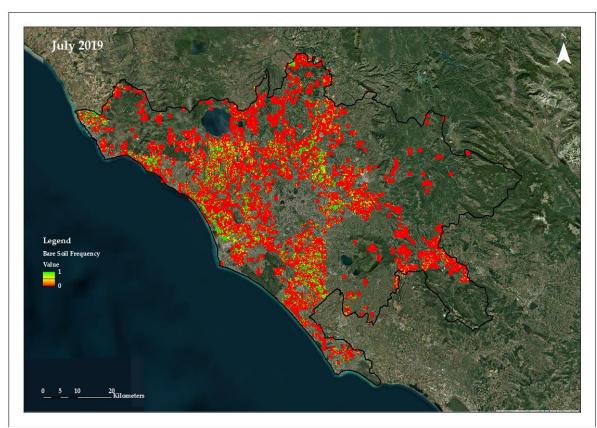


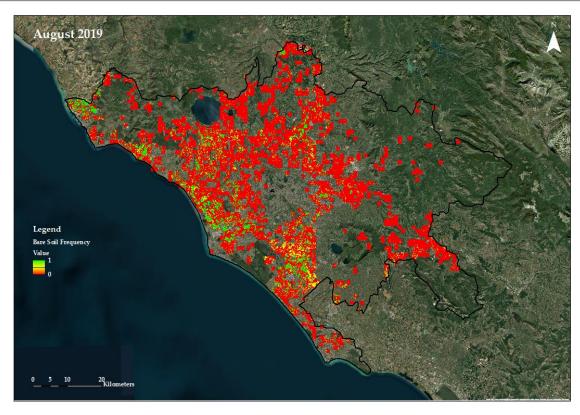


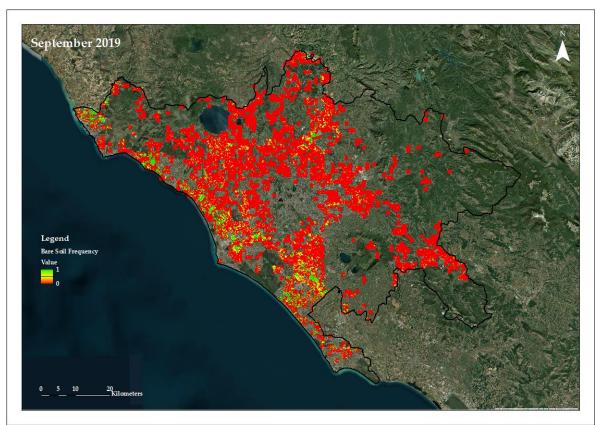


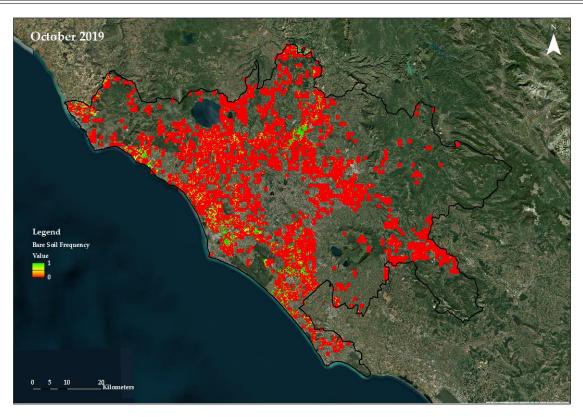












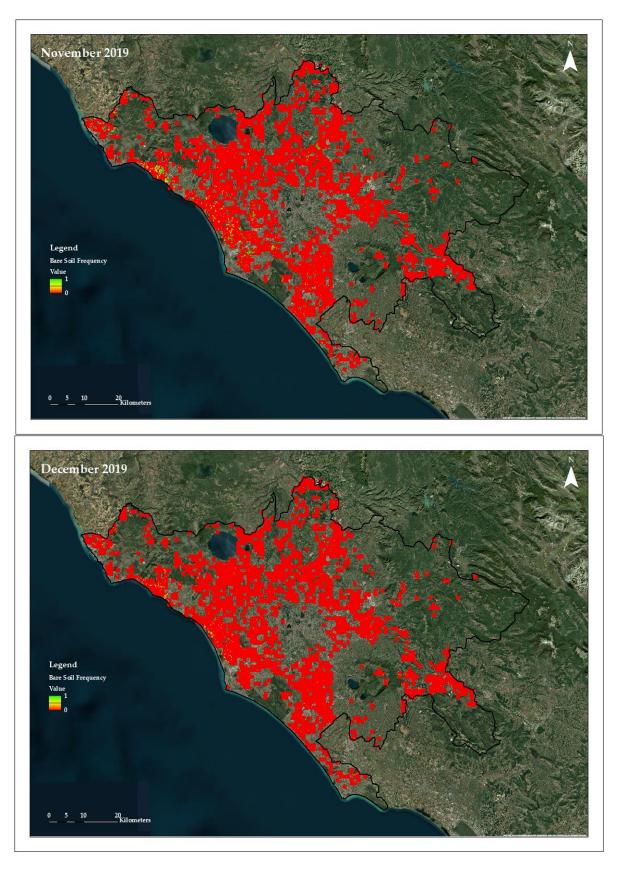
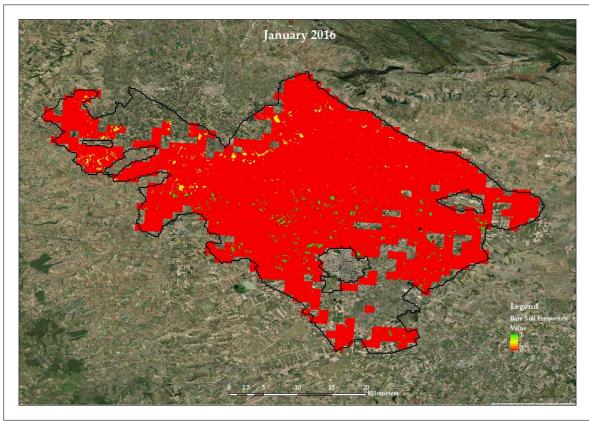
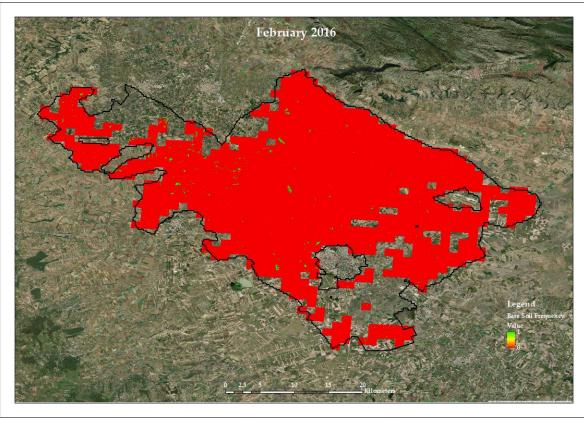
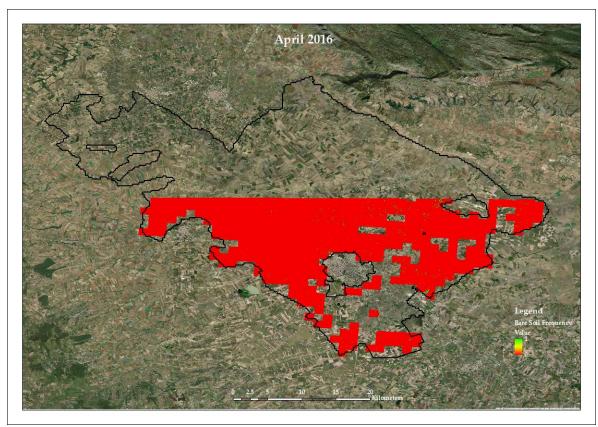
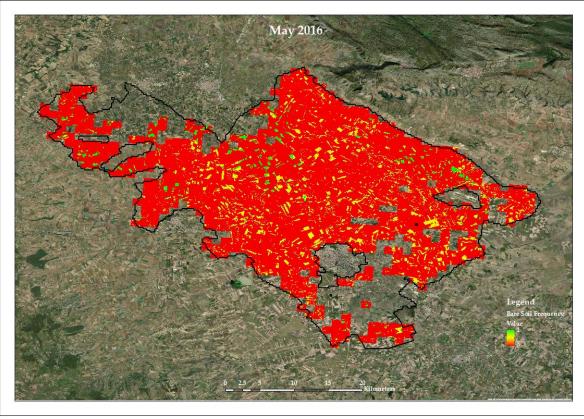


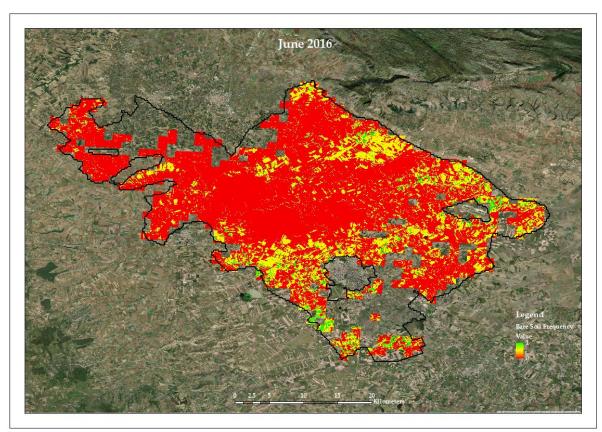
Figure S8. Yearly Bare Soil Frequency of the Roma region for the agricultural year 2019.

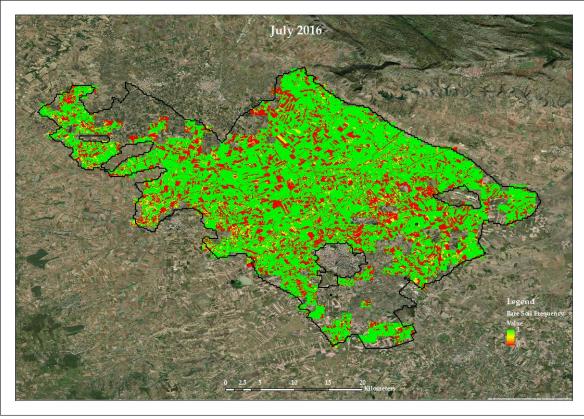


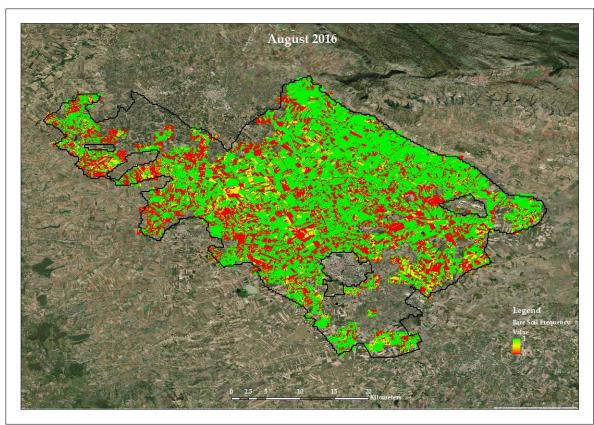


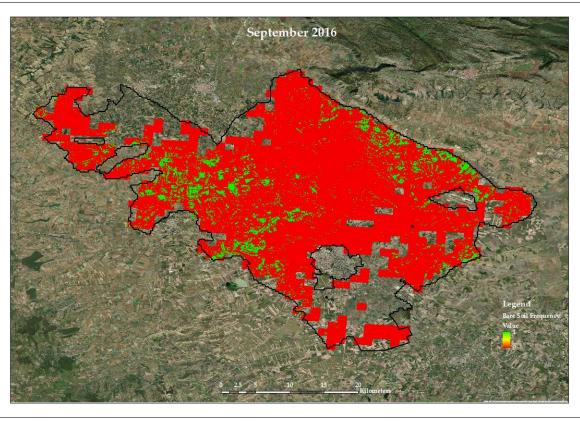


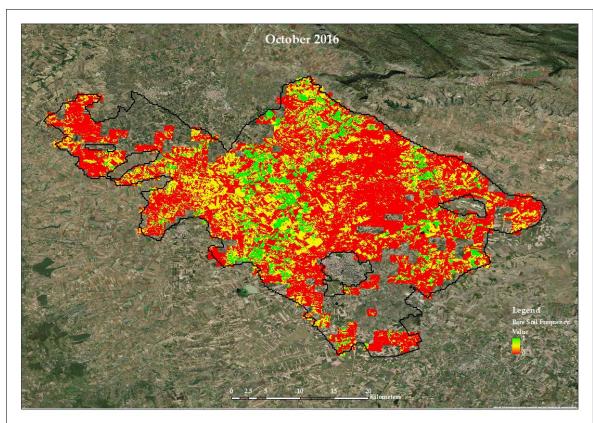


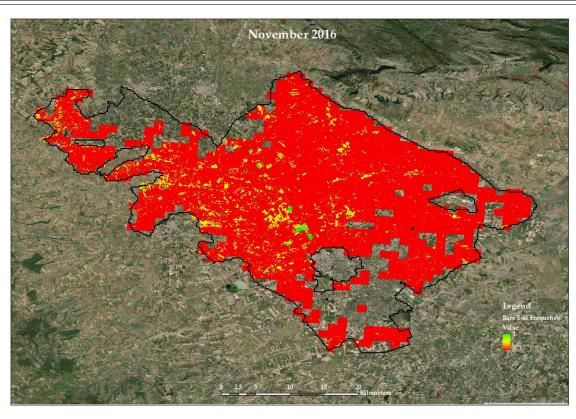












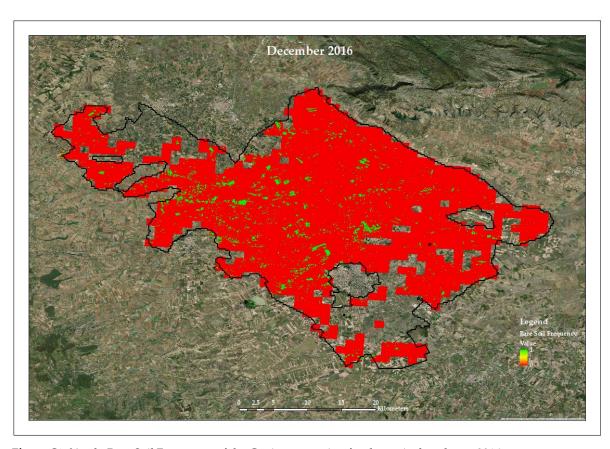
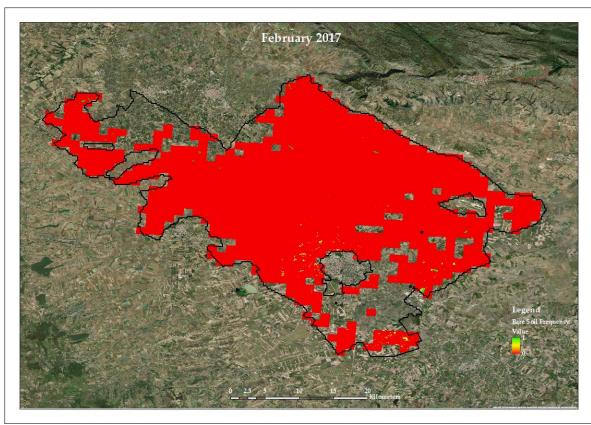
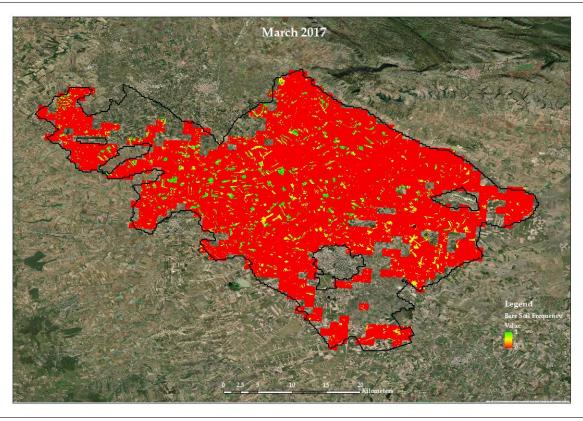
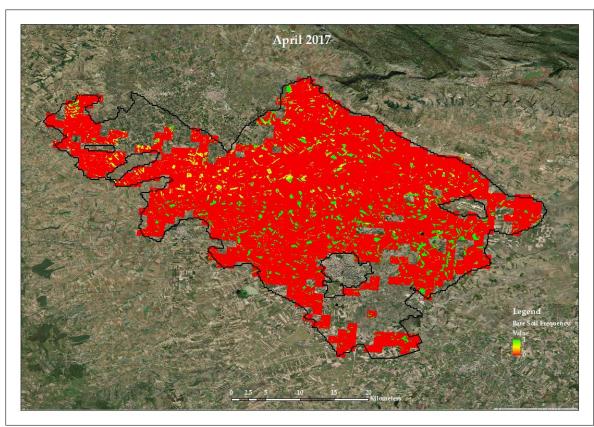
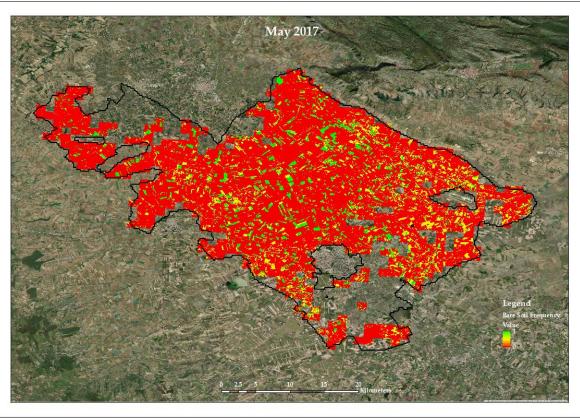


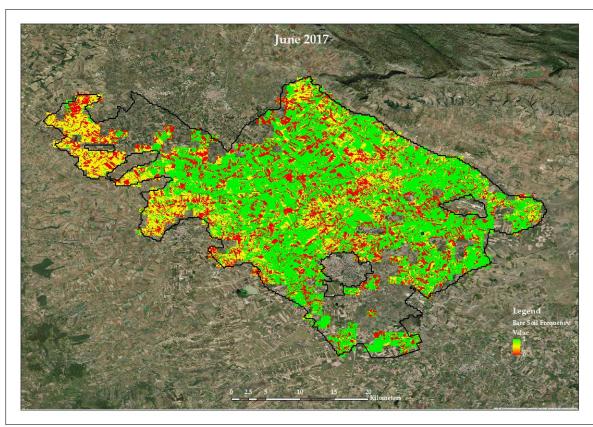
Figure S9. Yearly Bare Soil Frequency of the Capitanata region for the agricultural year 2016.

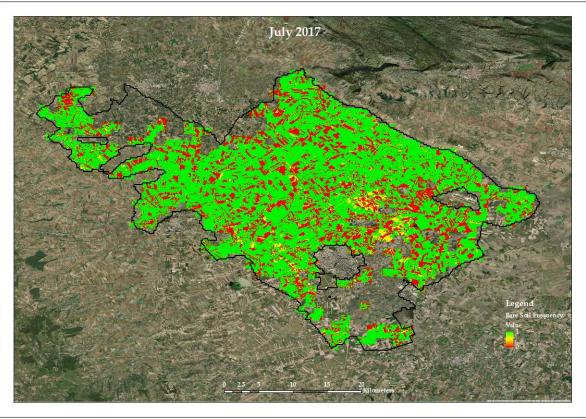


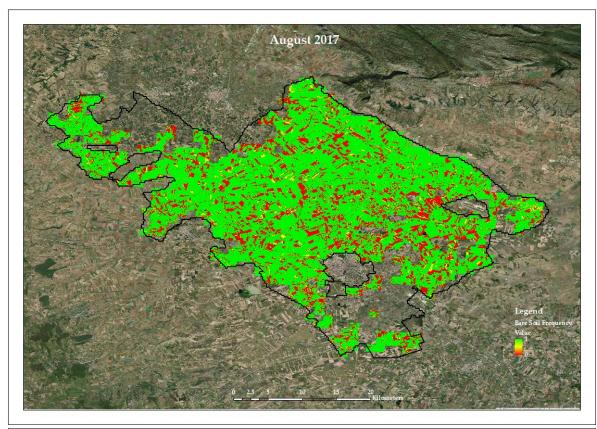


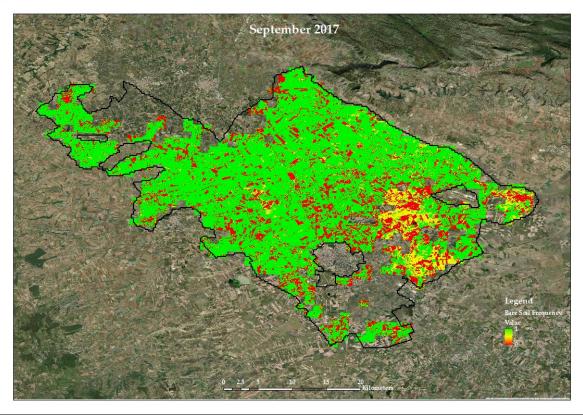


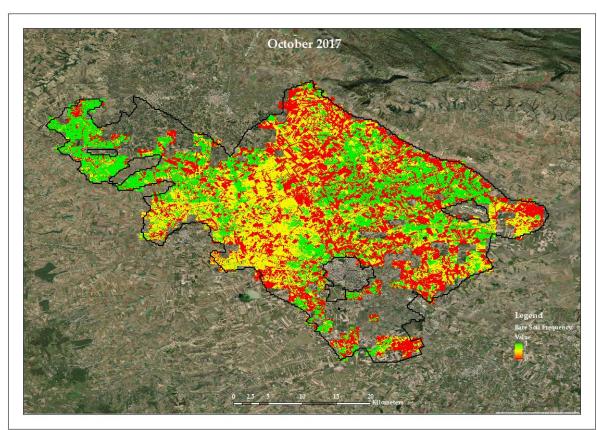


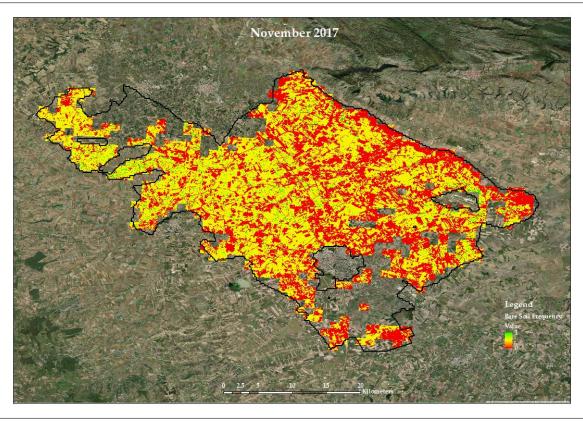












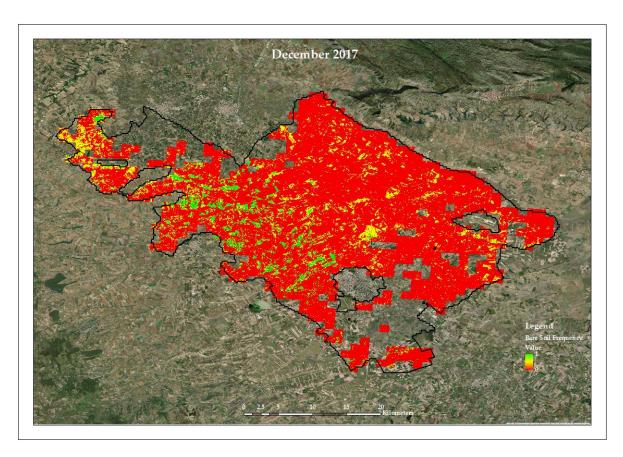
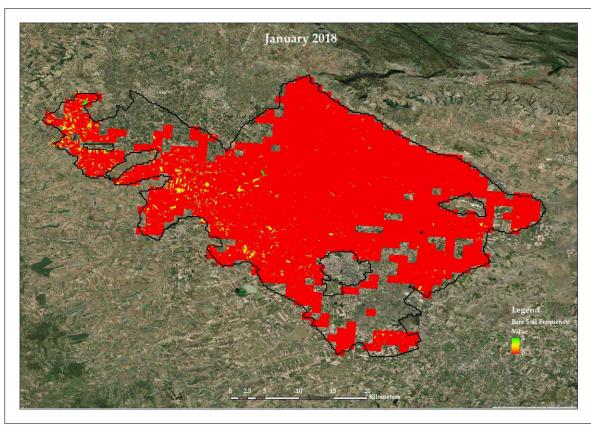
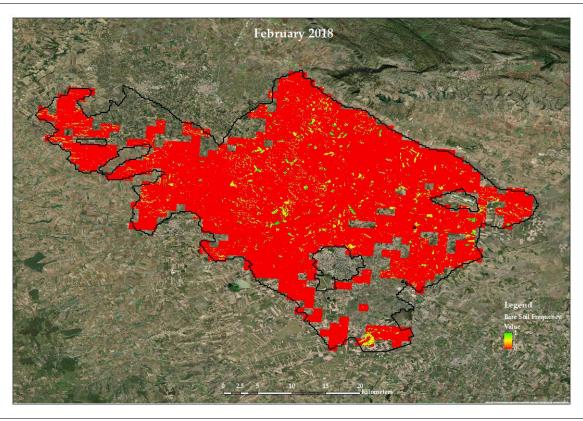
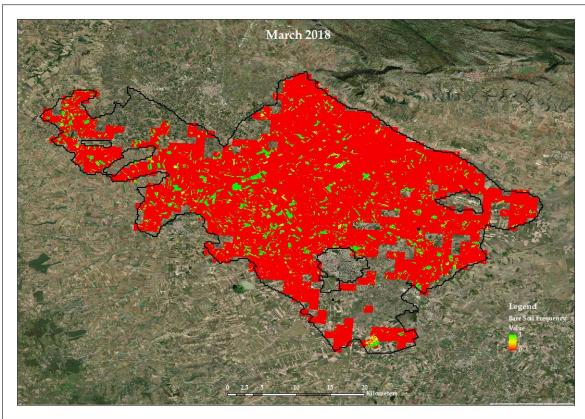
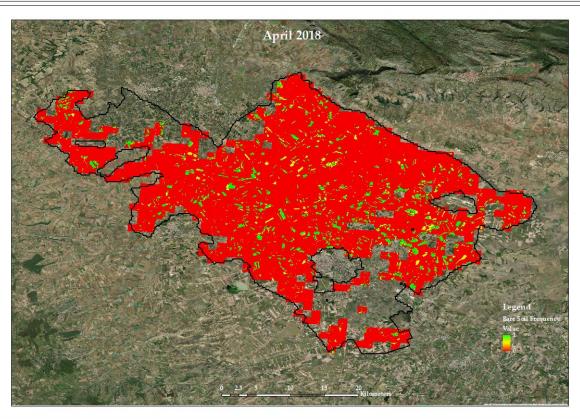


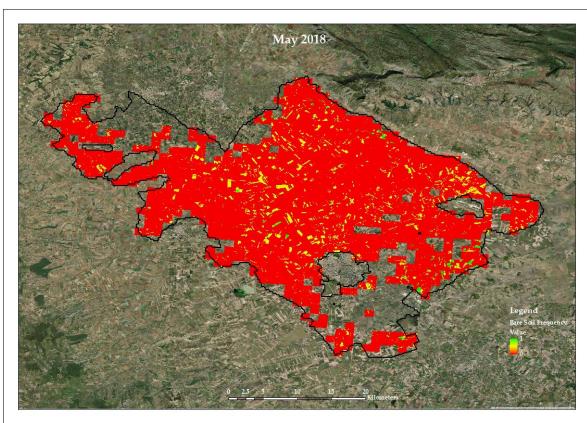
Figure S10. Yearly Bare Soil Frequency of the Capitanata region for the agricultural year 2017.

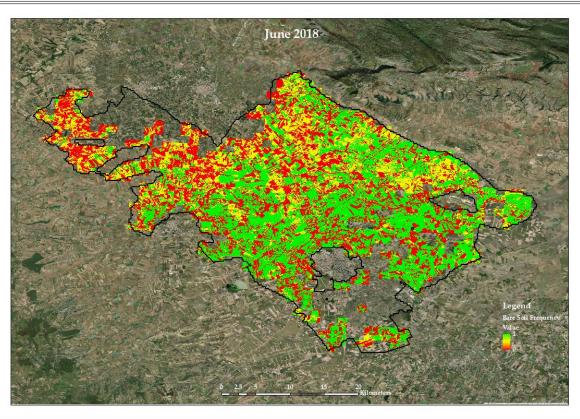


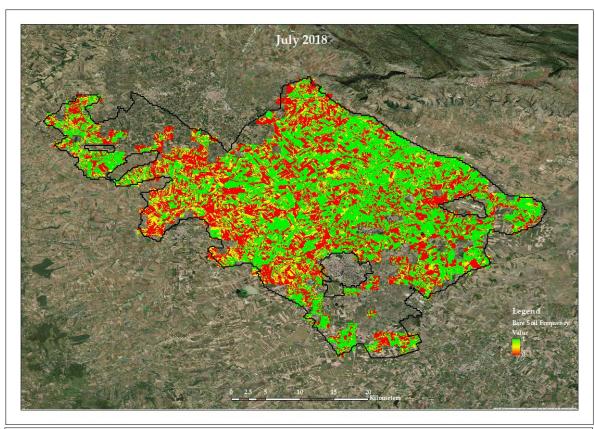


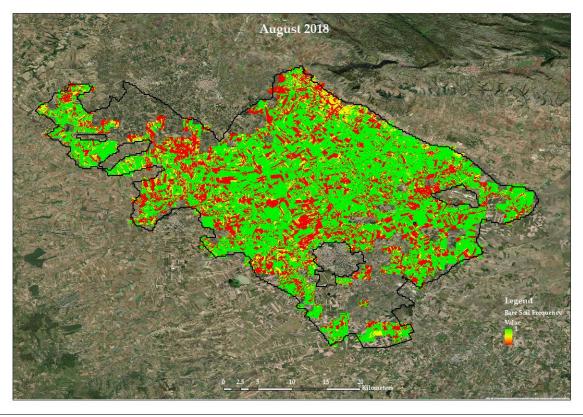


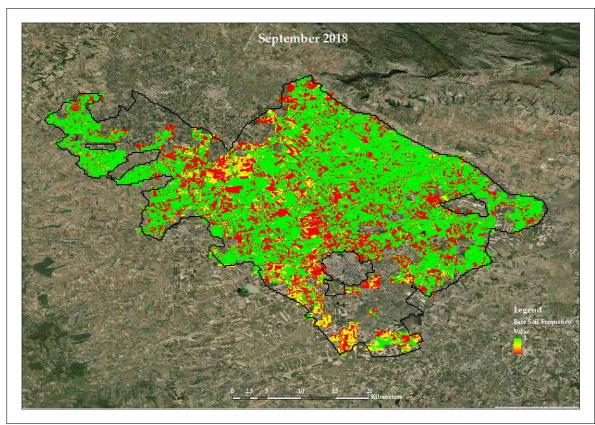


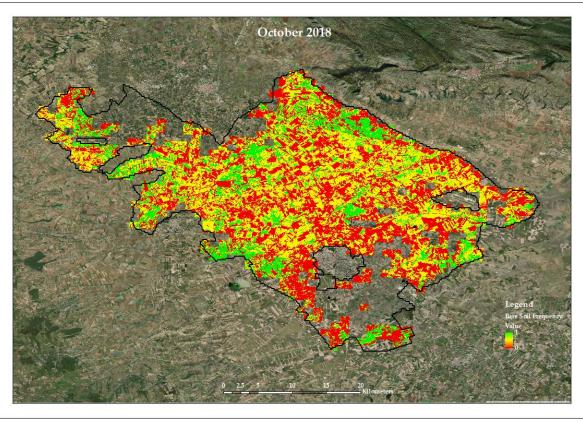


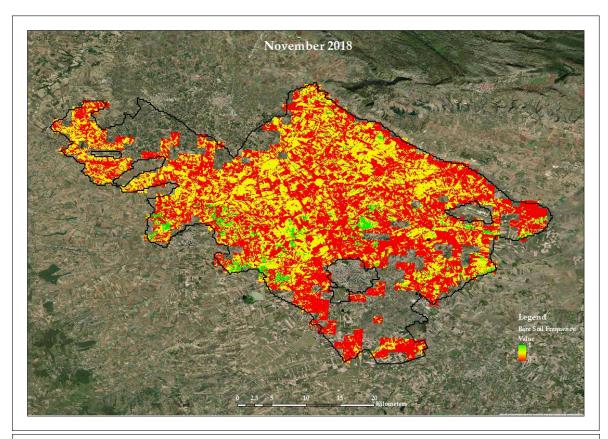












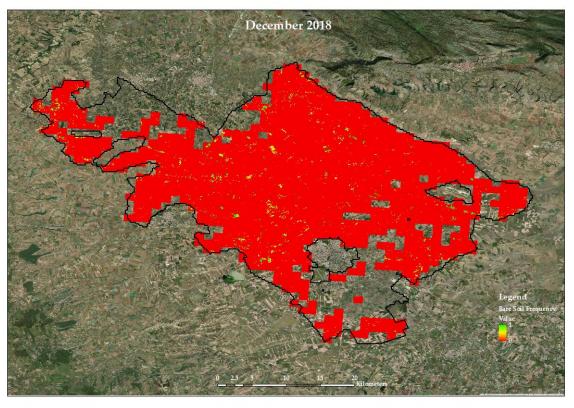
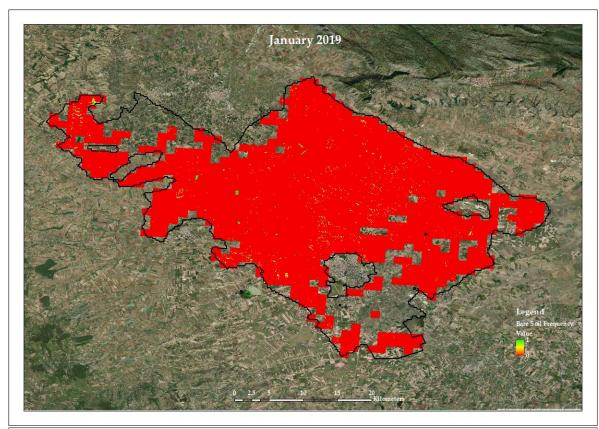
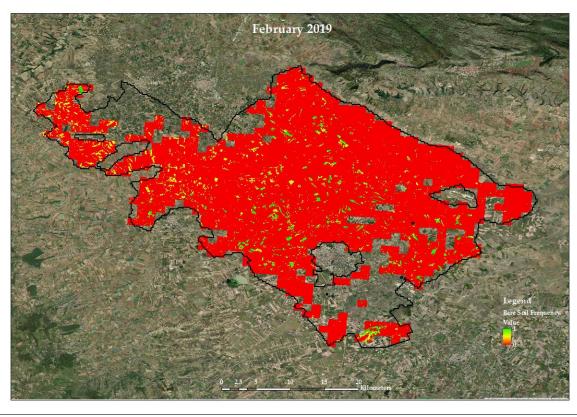
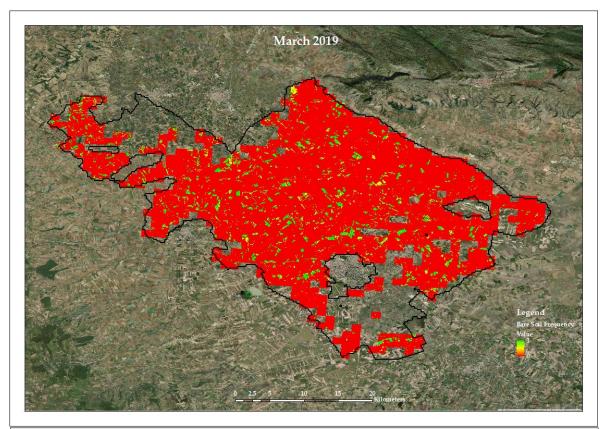
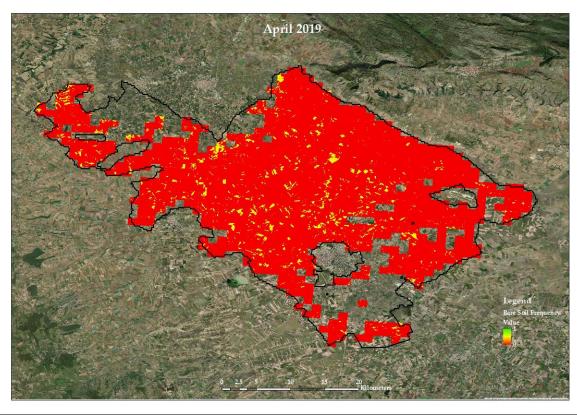


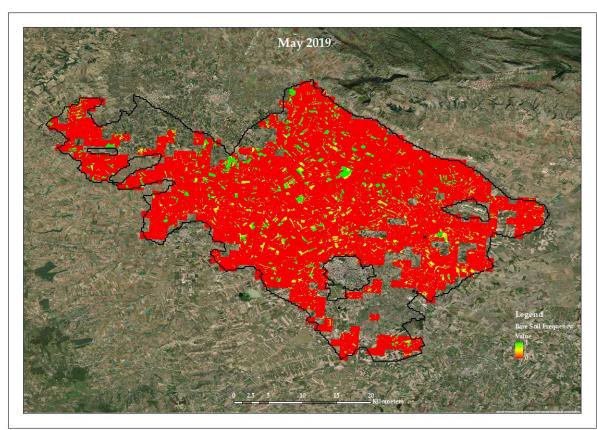
Figure S11. Yearly Bare Soil Frequency of the Capitanata region for the agricultural year 2018.

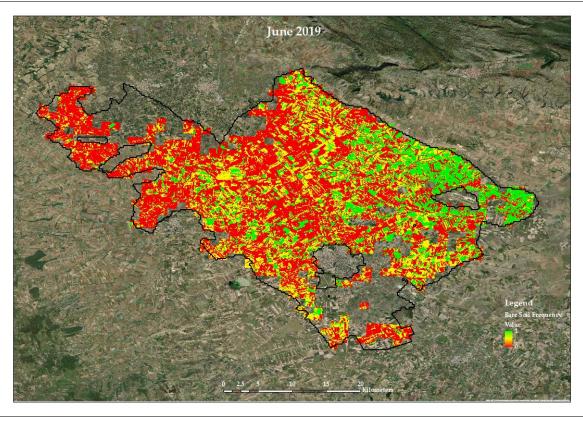


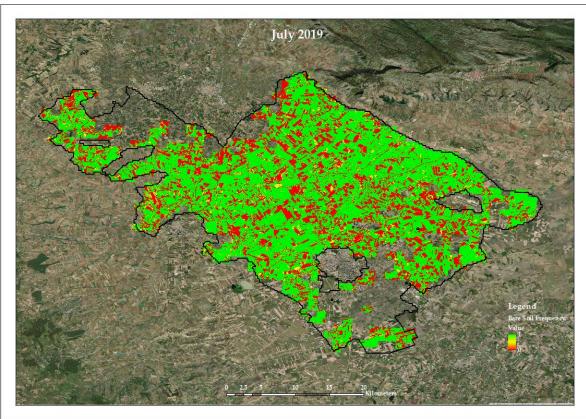


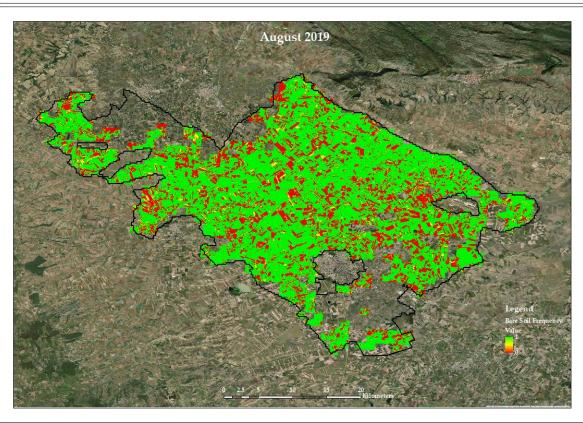


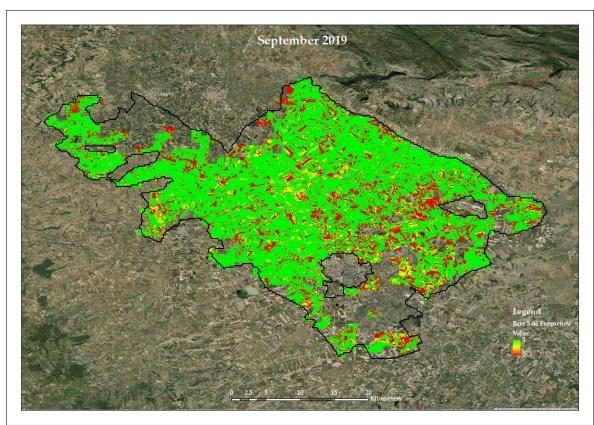


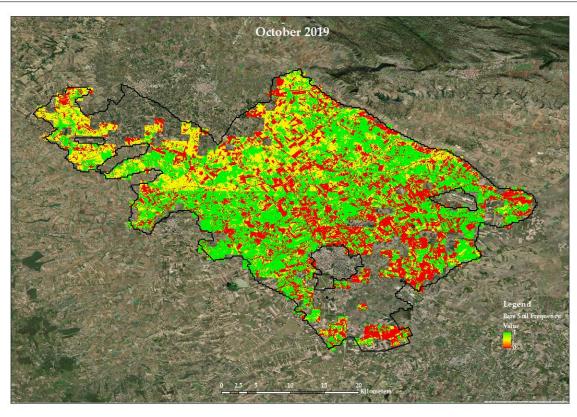


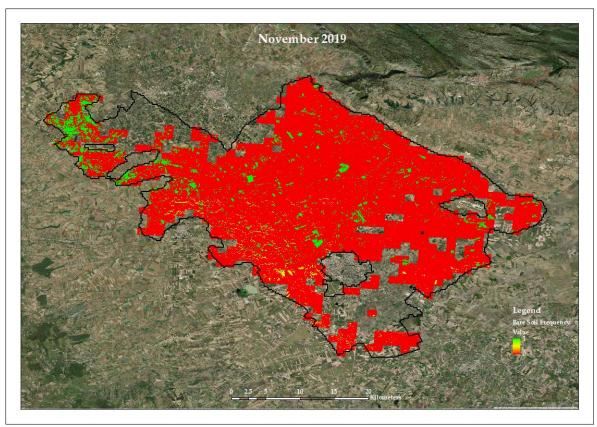












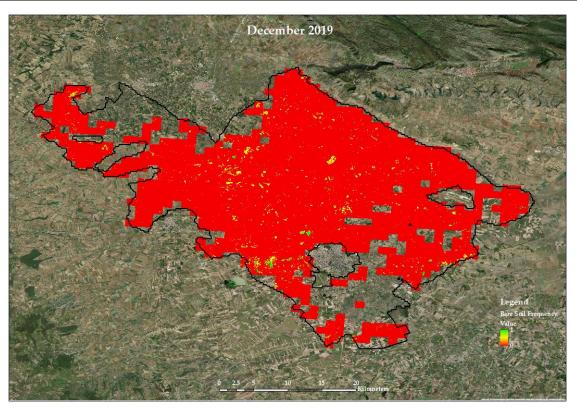


Figure S12. Yearly Bare Soil Frequency of the Capitanata region for the agricultural year 2019.