

Supplementary files

List of tables

Supplementary table S1: The geomorphometric characteristics of karst depressions for the test area in Logaško-begunjski ravnik (according to two detecting methods and input data preprocessing). CV – coefficient of variation.

Supplementary table S2: The geomorphometric characteristics of karst depressions for the test area in Kras (according to two detecting methods and input data preprocessing). CV – coefficient of variation.

Supplementary table S3: The geomorphometric characteristics of karst depressions for the test area in Matarsko podolje (according to two detecting methods and input data reprocessing). CV – coefficient of variation.

List of figures.

Supplementary figure S1: Detected karst depressions in Kras area based on R1 method and DTM F1.

Supplementary figure S2: Detected karst depressions in Kras area based on R1 method and DTM FS5.

Supplementary figure S3: Detected karst depressions in Kras area based on R1 method and DTM OS.

Supplementary figure S4: Detected karst depressions in Kras area based on S1 method and DTM F1.

Supplementary figure S5: Detected karst depressions in Kras area based on S1 method and DTM FS5.

Supplementary figure S6: Detected karst depressions in Kras area based on S1 method and DTM OS.

Supplementary figure S7: Detected karst depressions in Matarsko podolje area based on R1 method and DTM F1.

Supplementary figure S8: Detected karst depressions in Matarsko podolje area based on R1 method and DTM FS5.

Supplementary figure S9: Detected karst depressions in Matarsko podolje area based on R1 method and DTM OS.

Supplementary figure S10: Detected karst depressions in Matarsko podolje area based on S1 method and DTM F1.

Supplementary figure S11: Detected karst depressions in Matarsko podolje area based on S1 method and DTM FS5.

Supplementary figure S12: Detected karst depressions in Matarsko podolje area based on S1 method and DTM OS.

Supplementary figure S13: Detected karst depressions in Logaško-begunjski ravnik area based on R1 method and DTM F1.

Supplementary figure S14: Detected karst depressions in Logaško-begunjski ravnik area based on R1 method and DTM FS5.

Supplementary figure S15: Detected karst depressions in Logaško-begunjski ravnik area based on R1 method and DTM OS.

Supplementary figure S16: Detected karst depressions in Logaško-begunjski ravnik area based on S1 method and DTM F1.

Supplementary figure S17: Detected karst depressions in Logaško-begunjski ravnik area based on S1 method and DTM FS5.

Supplementary figure S18: Detected karst depressions in Logaško-begunjski ravnik area based on S1 method and DTM OS.

Supplementary table S1: The geomorphometric characteristics of enclosed karst depressions for the test area in Logaško-begunjski ravnik (according to two detecting methods and input data preprocessing). CV – coefficient of variation.

geomorphometric characteristics	S1			R1		
	Mean	Median	CV	Mean	Median	CV
F1						
AREA (m ²)	599.77	464.50	0.79	611.08	454.00	0.84
VOL (m ³)	1271.33	697.08	1.37	1360.53	703.68	1.45
HDIST (m)	2.48	2.24	0.62	2.91	2.37	1.00
RAT_DD	0.18	0.16	0.58	0.21	0.17	0.70
ELONG	1.27	1.23	0.14	1.22	1.21	0.11
CIRCB	2.10	2.05	0.12	1.82	1.82	0.06
RAT_DP	0.16	0.16	0.30	0.16	0.15	0.35
ORIENT	90.52	91.50	0.55	87.66	87.27	0.57
SLOPE (°)	20.94	20.49	0.19	20.84	20.34	0.20
SH_3	0.01	0.01	1.14	0.01	0.00	1.18
VRM_MEAN	0.01	0.01	0.81	0.01	0.00	0.95
DEPTH (m)	4.11	3.74	0.41	4.09	3.63	0.43
FS5						
AREA (m ²)	769.61	581.00	0.75	794.16	597.50	0.83
VOL (m ³)	1607.39	852.82	1.39	1738.33	906.00	1.54
HDIST (m)	2.13	1.80	0.69	2.51	1.84	1.18
RAT_DD	0.13	0.11	0.56	0.14	0.12	0.74
ELONG	1.26	1.22	0.13	1.25	1.21	0.14
CIRCB	1.73	1.70	0.07	1.70	1.68	0.06
RAT_DP	0.13	0.13	0.20	0.14	0.13	0.20
ORIENT	95.84	99.25	0.52	92.38	91.85	0.53
SLOPE (°)	17.81	17.79	0.16	18.17	18.17	0.17
SH_3	0.01	0.01	0.86	0.01	0.00	0.93
VRM_MEAN	0.00	0.00	0.79	0.00	0.00	0.77
DEPTH (m)	4.02	3.55	0.43	4.07	3.54	0.45
OS						
AREA (m ²)	597.64	465.00	0.79	611.50	454.00	0.84
VOL (m ³)	1269.28	702.96	1.37	1359.90	699.71	1.45
HDIST (m)	2.45	2.21	0.61	2.99	2.37	1.05
RAT_DD	0.18	0.16	0.58	0.21	0.18	0.74
ELONG	1.26	1.23	0.14	1.22	1.21	0.11
CIRCB	2.07	2.04	0.11	1.82	1.82	0.06
RAT_DP	0.16	0.16	0.31	0.16	0.15	0.35
ORIENT	90.53	89.78	0.55	87.20	86.75	0.57
SLOPE (°)	21.00	20.50	0.18	20.80	20.30	0.20
SH_3	0.01	0.00	1.13	0.01	0.00	1.17
VRM_MEAN	0.01	0.01	0.81	0.01	0.00	0.94
DEPTH (m)	4.11	3.74	0.41	4.09	3.63	0.43

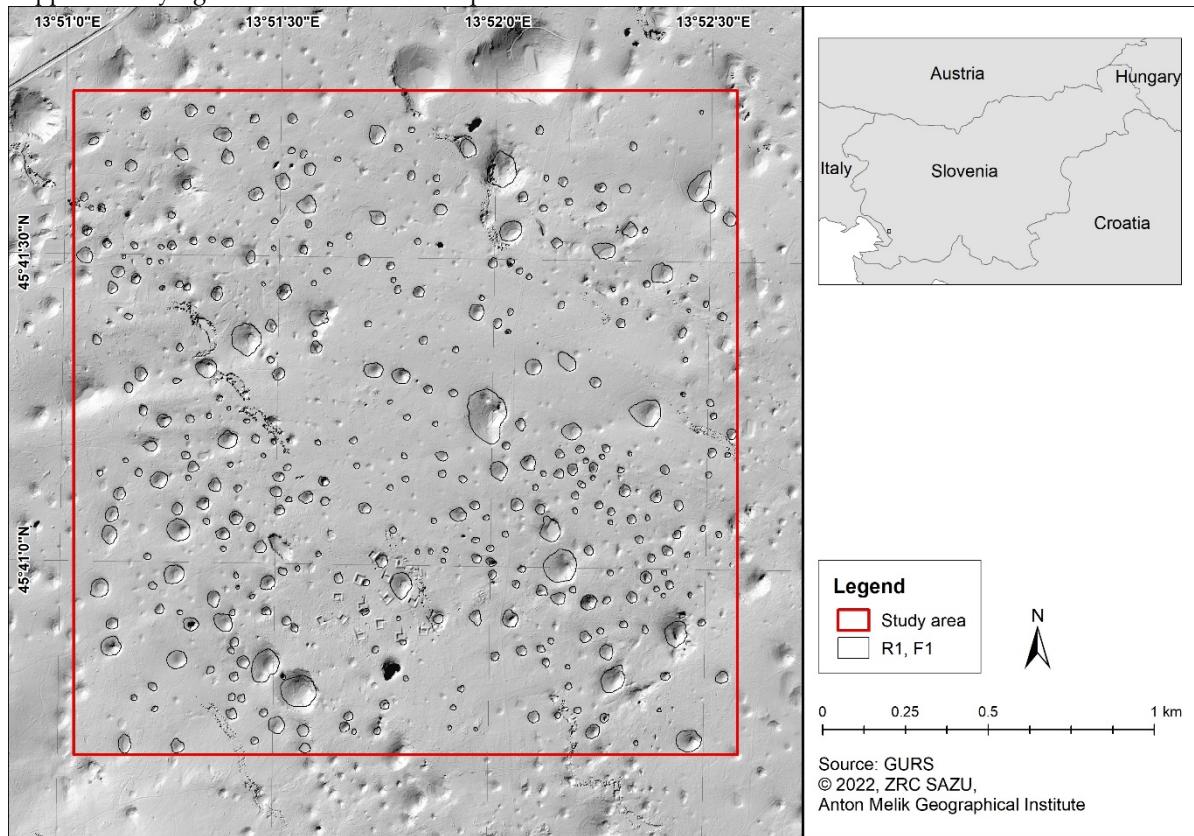
Supplementary table S2: The geomorphometric characteristics of enclosed karst depressions for the test area in Kras (according to two detecting methods and input data preprocessing). CV – coefficient of variation.

geomorphometric characteristics	S1			R1		
	Mean	Median	CV	Mean	Median	CV
F1						
AREA (m ²)	725.33	479.00	1.01	840.02	453.50	1.51
VOL (m ³)	1697.75	630.40	1.96	3160.24	897.54	2.85
HDIST (m)	5.22	4.25	0.73	5.58	3.66	1.14
RAT_DD	0.31	0.30	0.49	0.32	0.29	0.58
ELONG	1.33	1.27	0.17	1.20	1.18	0.10
CIRCB	2.62	2.46	0.26	1.81	1.81	0.05
RAT_DP	0.20	0.16	0.93	0.21	0.17	1.08
ORIENT	111.98	123.39	0.43	105.55	111.88	0.46
SLOPE (°)	19.64	18.77	0.35	22.67	21.56	0.31
SH_3	0.04	0.02	1.35	0.02	0.00	1.93
VRM_MEAN	0.01	0.01	1.22	0.01	0.01	1.07
DEPTH (m)	5.25	4.00	0.79	5.88	4.35	0.95
FS5						
AREA (m ²)	1201.37	829.00	1.06	1325.23	749.00	1.49
VOL (m ³)	3261.64	1118.30	2.10	5101.63	1244.53	3.29
HDIST (m)	6.23	4.74	0.82	6.39	3.94	1.21
RAT_DD	0.28	0.27	0.48	0.27	0.24	0.62
ELONG	1.32	1.27	0.20	1.24	1.22	0.13
CIRCB	1.82	1.77	0.12	1.72	1.69	0.07
RAT_DP	0.16	0.14	0.66	0.17	0.14	0.73
ORIENT	110.38	123.35	0.46	111.16	119.74	0.44
SLOPE (°)	17.26	16.06	0.39	19.03	17.71	0.35
SH_3	0.05	0.02	1.40	0.02	0.00	1.96
VRM_MEAN	0.00	0.00	1.63	0.00	0.00	1.38
DEPTH (m)	5.66	4.26	0.80	6.26	4.41	1.10
OS						
AREA (m ²)	671.43	438.50	1.03	843.20	453.50	1.51
VOL (m ³)	1648.63	621.22	2.02	3167.13	897.62	2.84
HDIST (m)	4.78	3.91	0.75	5.60	3.64	1.13
RAT_DD	0.30	0.29	0.50	0.32	0.29	0.58
ELONG	1.30	1.26	0.15	1.20	1.18	0.10
CIRCB	2.35	2.28	0.16	1.82	1.81	0.05
RAT_DP	0.20	0.17	0.91	0.21	0.17	1.08
ORIENT	110.18	121.29	0.44	105.41	112.33	0.46
SLOPE (°)	20.62	19.90	0.32	22.65	21.61	0.31
SH_3	0.02	0.01	1.25	0.02	0.00	1.92
VRM_MEAN	0.01	0.01	1.20	0.01	0.01	1.07
DEPTH (m)	5.23	3.97	0.80	5.89	4.29	0.95

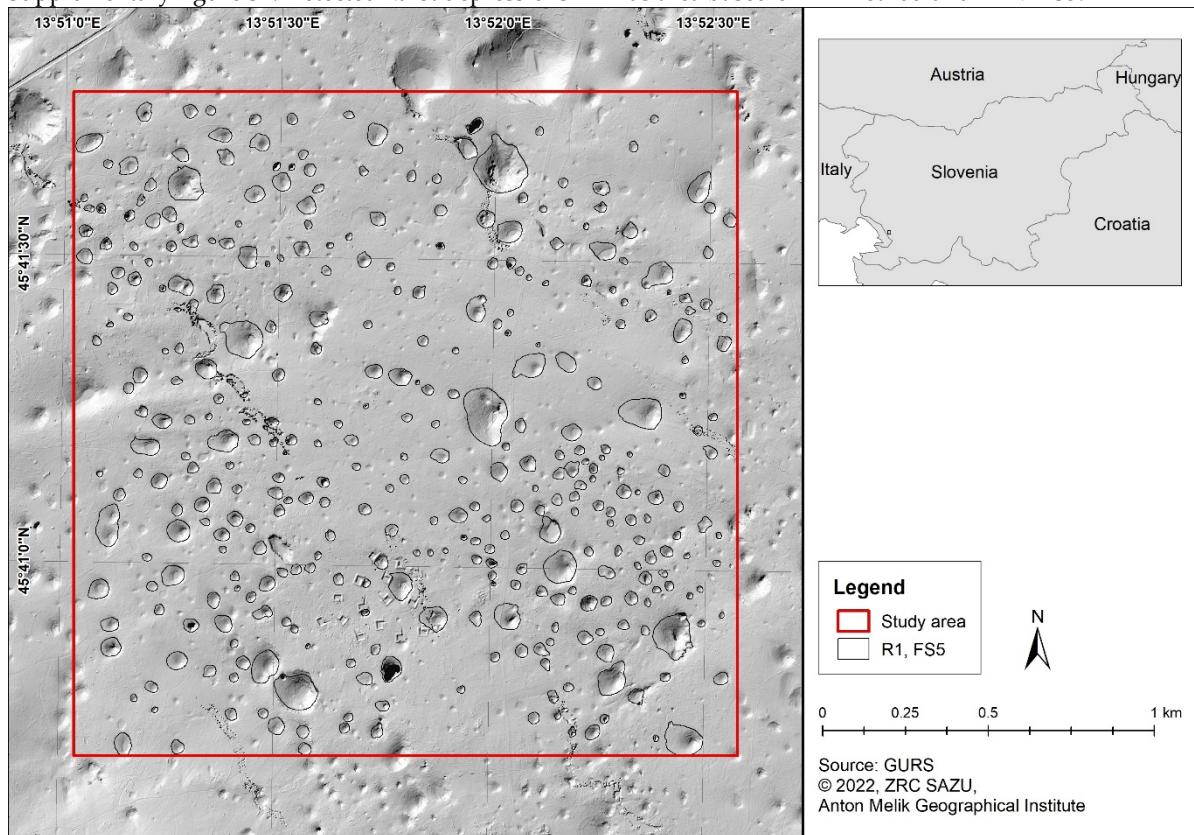
Supplementary table S3: The geomorphometric characteristics of enclosed karst depressions for the test area in Matarsko podolje (according to two detecting methods and input data preprocessing). CV – coefficient of variation.

geomorphometric characteristics	S1			R1		
	Mean	Median	CV	Mean	Median	CV
	F1					
AREA (m ²)	726.52	586.00	0.75	868.96	724.00	0.76
VOL (m ³)	1536.78	952.87	1.17	2010.64	1267.15	1.18
HDIST (m)	3.20	2.81	0.60	4.78	3.75	0.80
RAT_DD	0.21	0.19	0.57	0.27	0.24	0.63
ELONG	1.25	1.21	0.13	1.22	1.19	0.12
CIRCB	2.11	2.07	0.12	1.82	1.81	0.07
RAT_DP	0.17	0.15	0.84	0.14	0.14	0.33
ORIENT	89.82	89.26	0.51	87.19	87.75	0.48
SLOPE (°)	20.19	19.39	0.28	18.81	18.24	0.22
SH_3	0.01	0.01	1.19	0.03	0.01	1.46
VRM_MEAN	0.01	0.00	1.41	0.00	0.00	0.92
DEPTH (m)	4.45	4.08	0.47	4.39	3.98	0.44
FS5						
AREA (m ²)	1071.01	870.00	0.73	1162.15	895.50	0.81
VOL (m ³)	2301.68	1434.11	1.19	2666.96	1610.46	1.25
HDIST (m)	3.37	2.87	0.69	4.29	3.07	1.03
RAT_DD	0.17	0.16	0.55	0.19	0.17	0.68
ELONG	1.26	1.22	0.15	1.26	1.22	0.15
CIRCB	1.75	1.72	0.07	1.72	1.70	0.07
RAT_DP	0.13	0.12	0.35	0.13	0.12	0.35
ORIENT	90.53	91.96	0.51	89.61	90.31	0.52
SLOPE (°)	16.73	16.33	0.24	16.93	16.52	0.24
SH_3	0.02	0.01	1.31	0.02	0.01	1.46
VRM_MEAN	0.00	0.00	2.21	0.00	0.00	2.29
DEPTH (m)	4.40	4.08	0.43	4.54	4.18	0.44
OS						
AREA (m ²)	729.05	587.50	0.75	868.34	724.50	0.76
VOL (m ³)	1545.32	956.39	1.16	2005.30	1270.71	1.17
HDIST (m)	3.19	2.80	0.60	4.78	3.76	0.80
RAT_DD	0.21	0.19	0.58	0.27	0.24	0.63
ELONG	1.25	1.21	0.13	1.22	1.19	0.12
CIRCB	2.10	2.06	0.12	1.82	1.81	0.07
RAT_DP	0.17	0.15	0.84	0.14	0.14	0.33
ORIENT	90.30	89.63	0.51	87.31	87.81	0.48
SLOPE (°)	20.23	19.44	0.28	18.79	18.23	0.23
SH_3	0.01	0.01	1.20	0.03	0.01	1.46
VRM_MEAN	0.01	0.00	1.42	0.00	0.00	0.92
DEPTH (m)	4.46	4.12	0.47	4.39	4.00	0.44

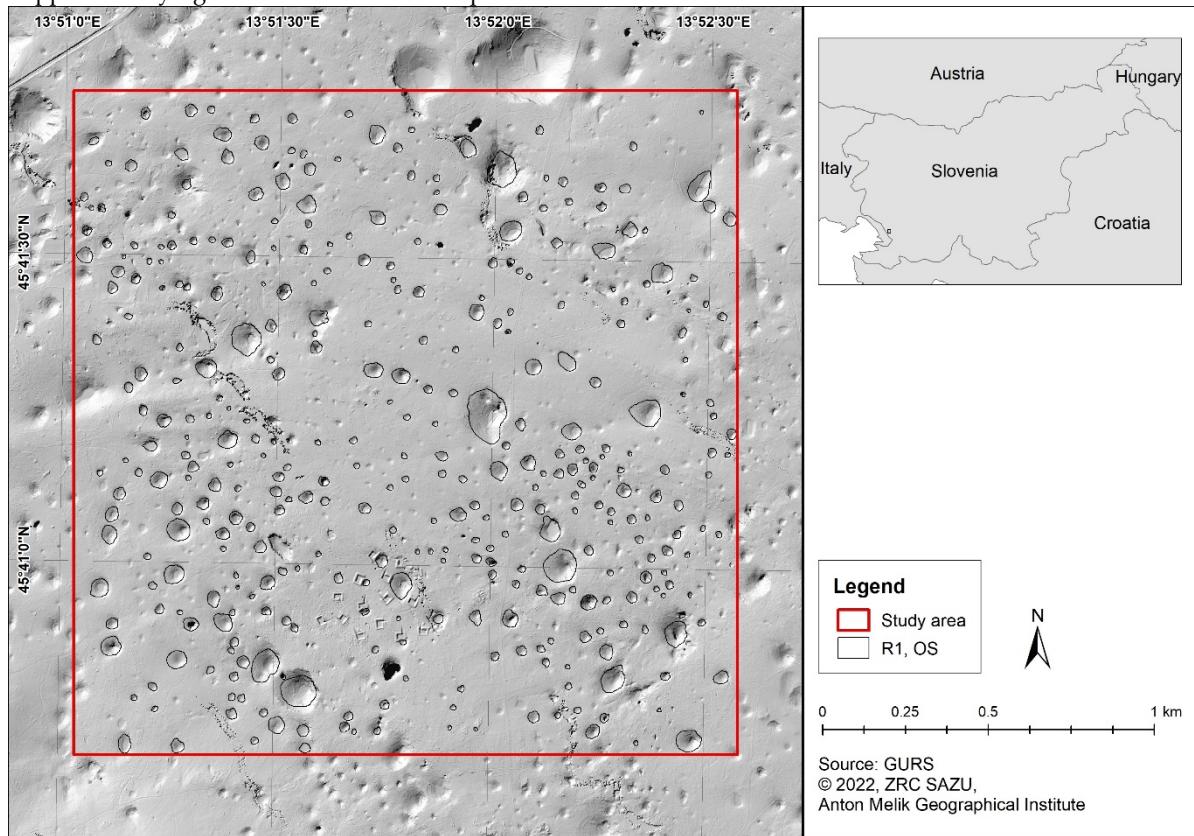
Supplementary figure S1: Detected karst depressions in Kras area based on R1 method and DTM F1.



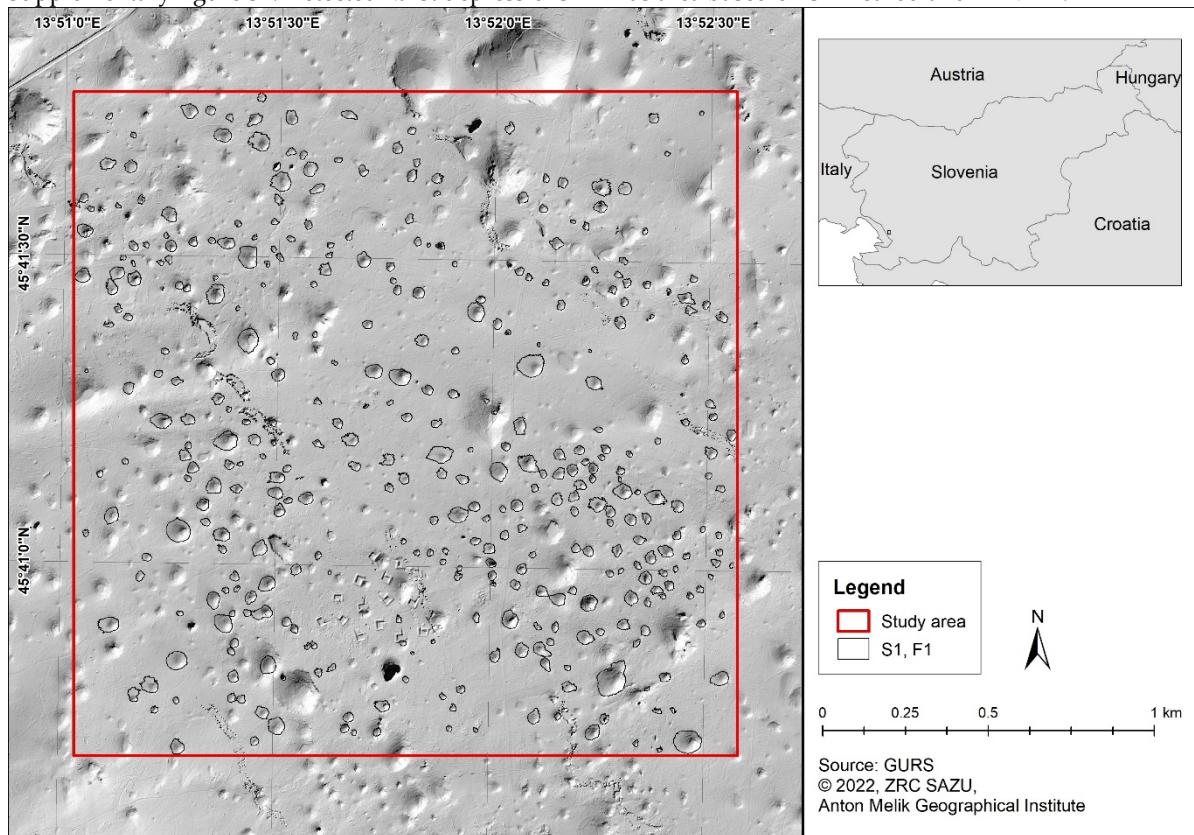
Supplementary figure S2: Detected karst depressions in Kras area based on R1 method and DTM FS5.



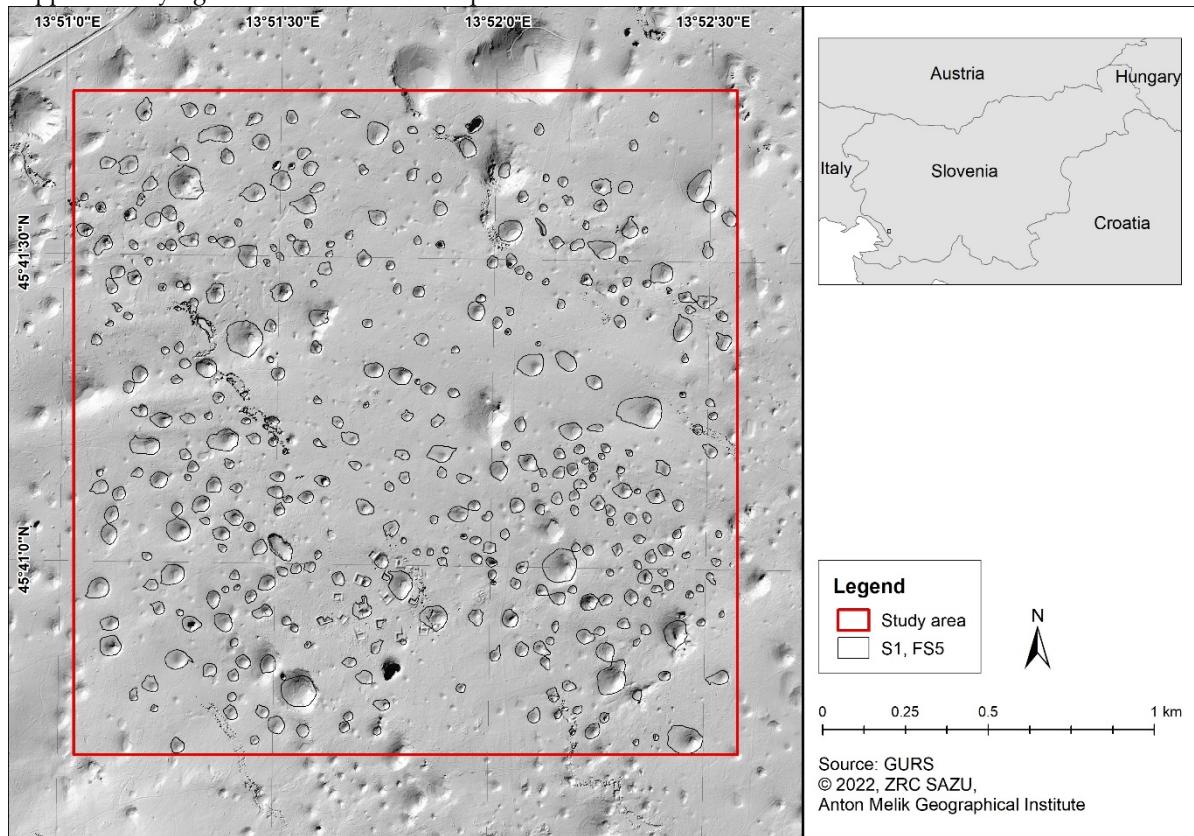
Supplementary figure S3: Detected karst depressions in Kras area based on R1 method and DTM OS.



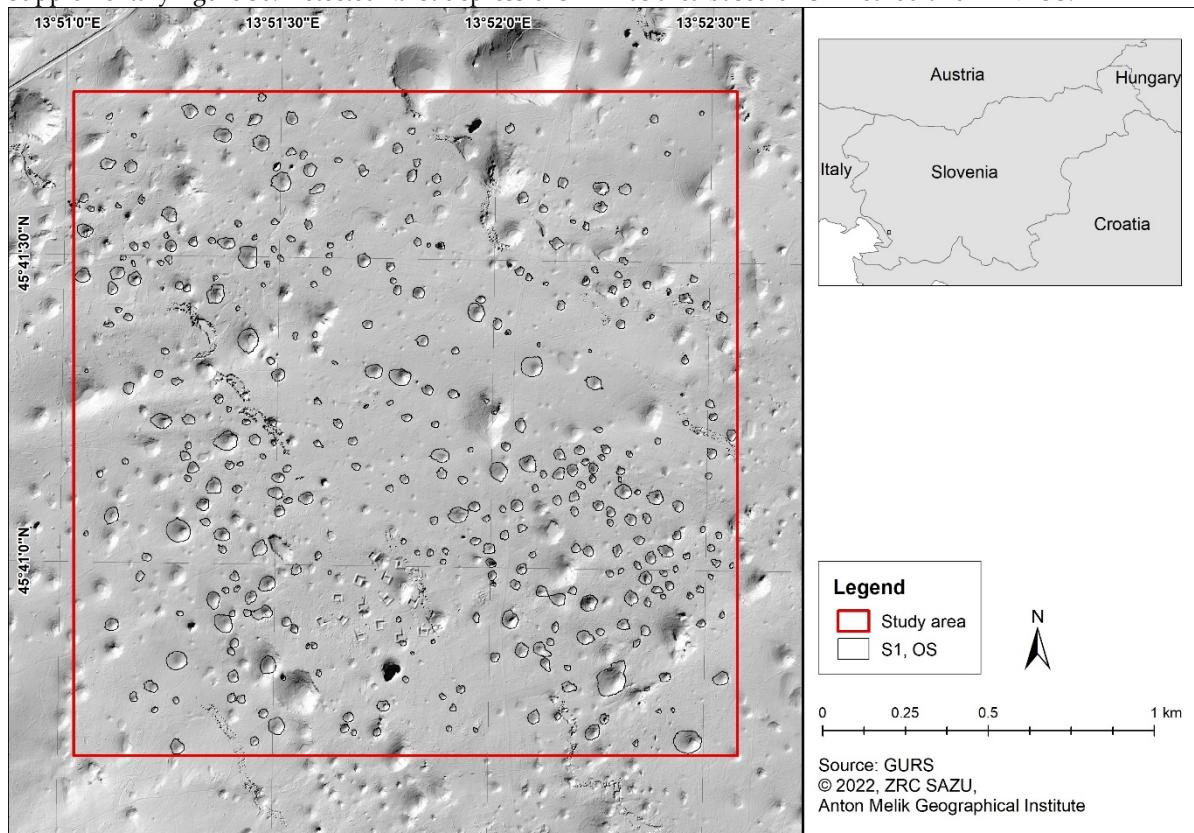
Supplementary figure S4: Detected karst depressions in Kras area based on S1 method and DTM F1.



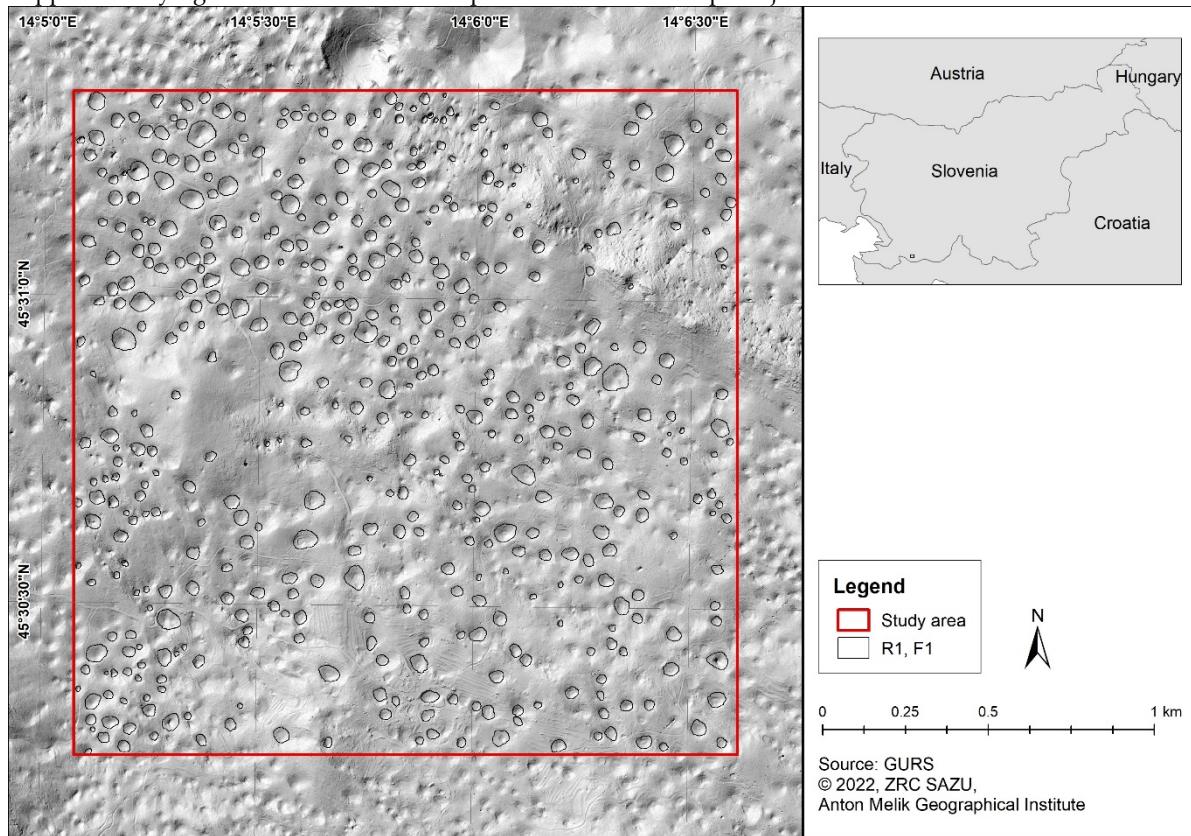
Supplementary figure S5: Detected karst depressions in Kras area based on S1 method and DTM FS5.



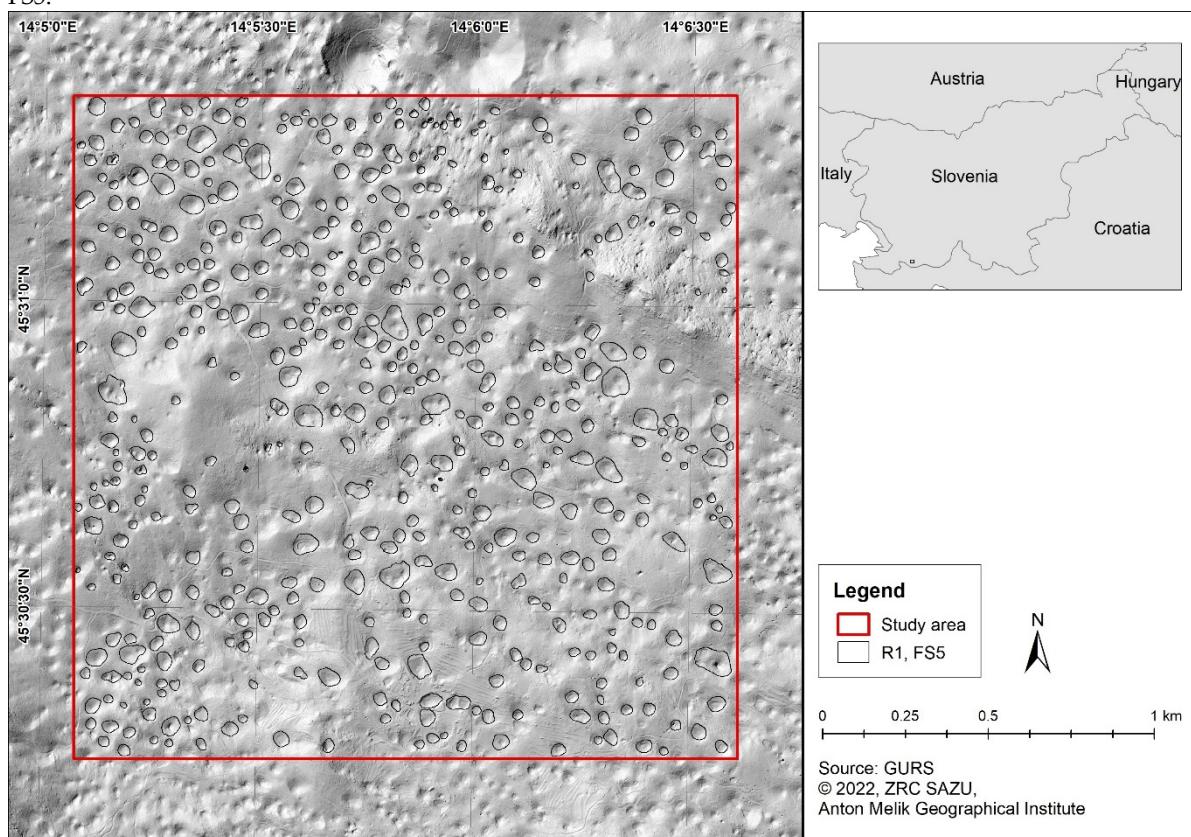
Supplementary figure S6: Detected karst depressions in Kras area based on S1 method and DTM OS.



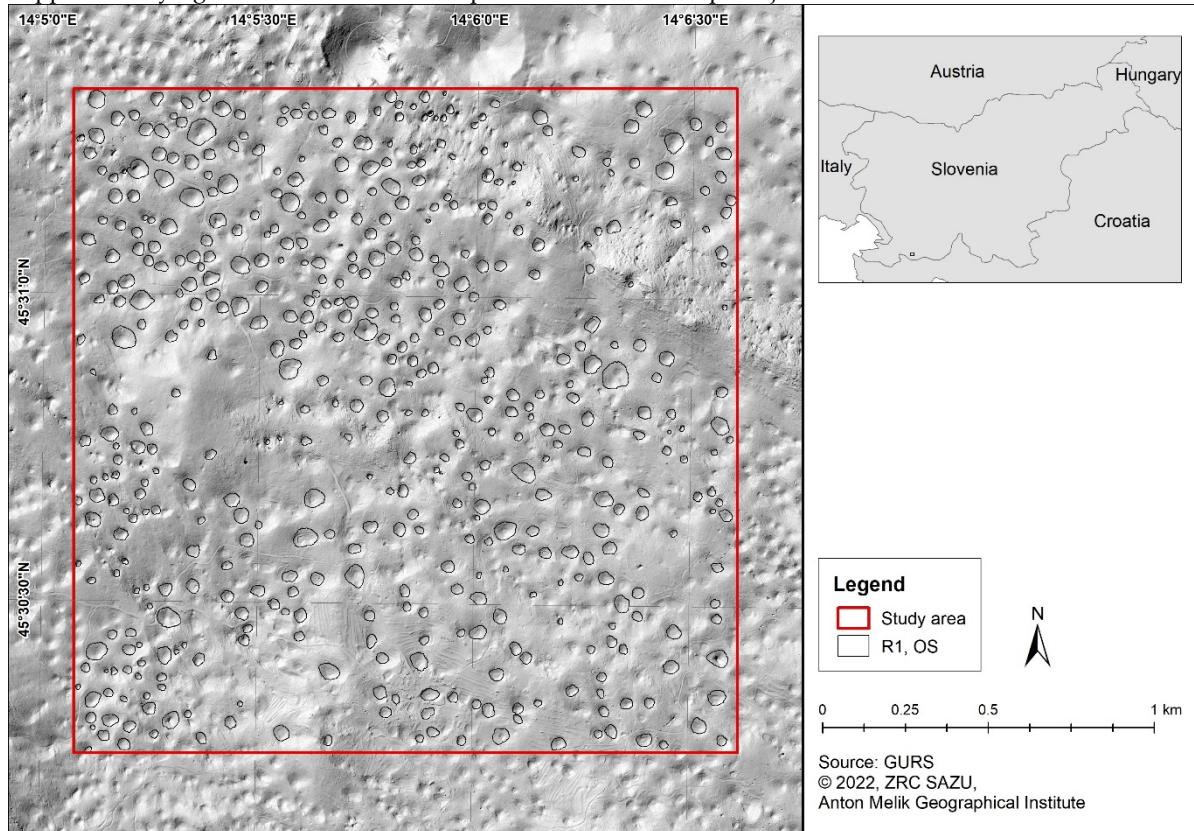
Supplementary figure S7: Detected karst depressions in Matarsko podolje area based on R1 method and DTM F1.



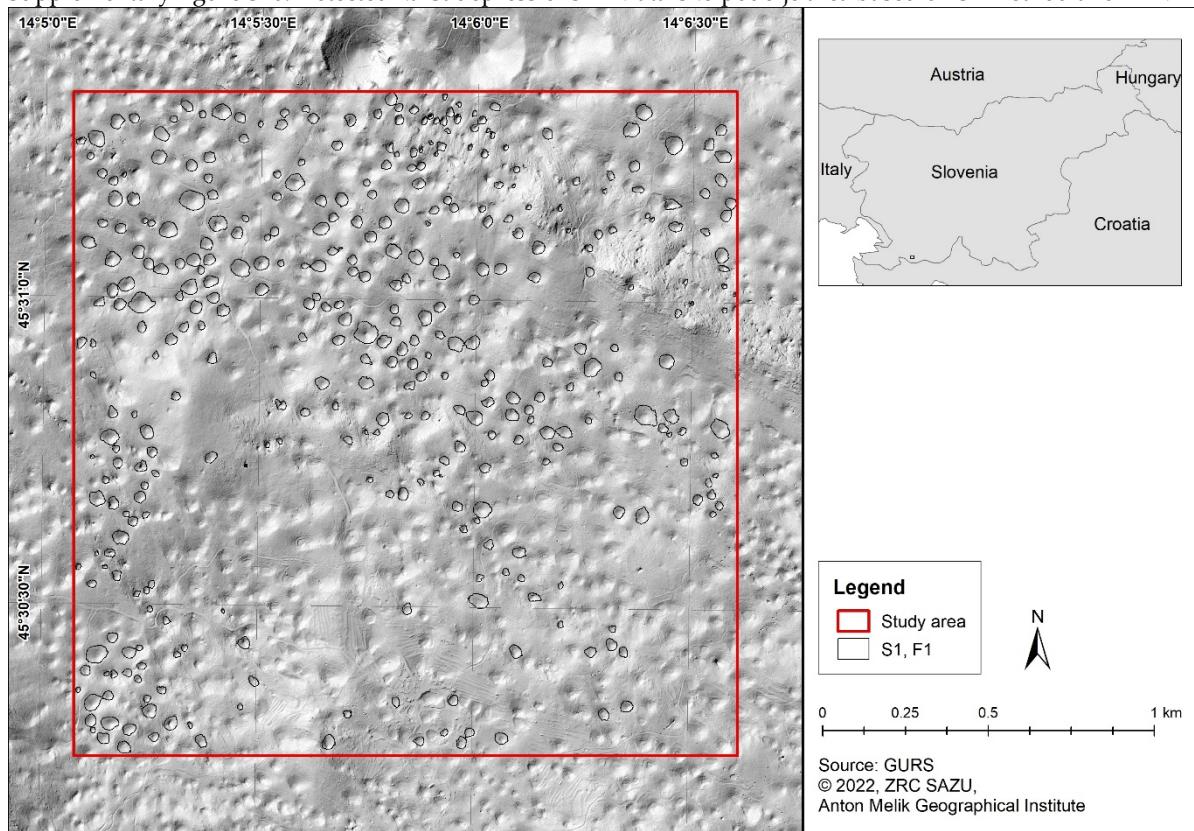
Supplementary figure S8: Detected karst depressions in Matarsko podolje area based on R1 method and DTM FS5.



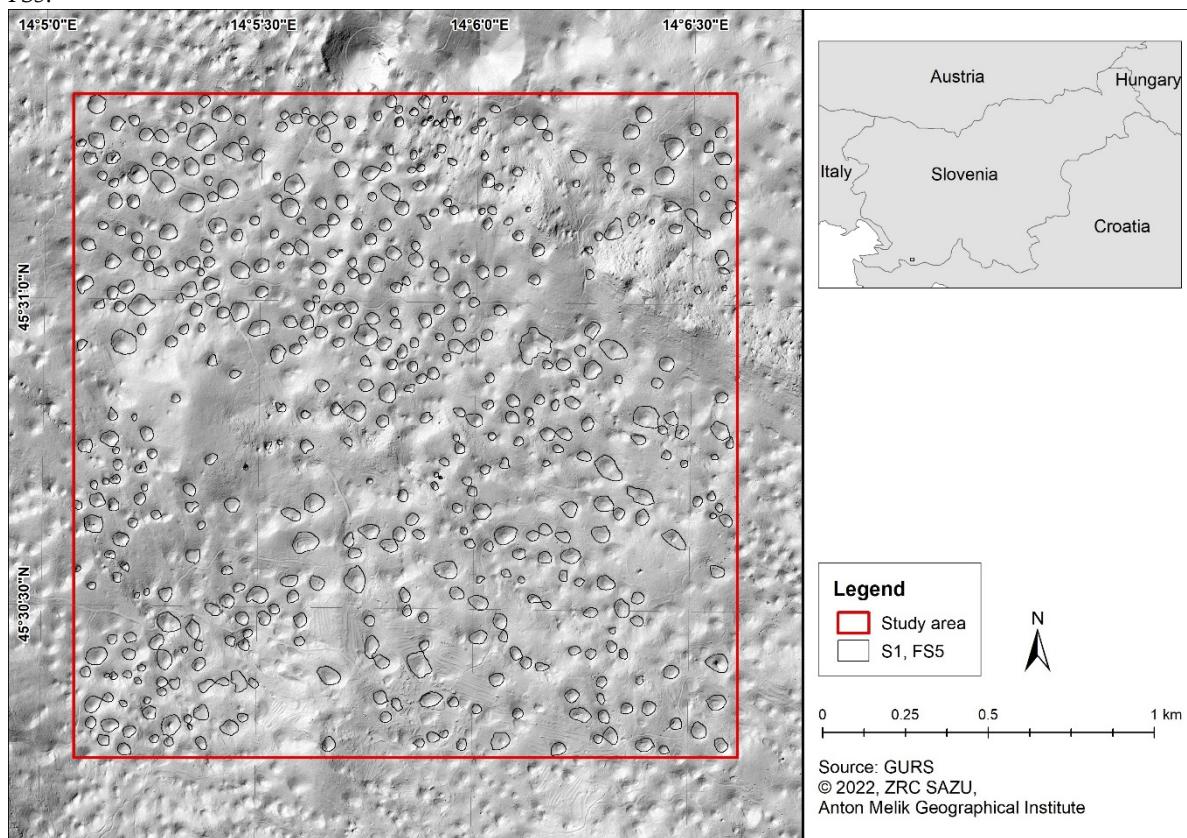
Supplementary figure S9: Detected karst depressions in Matarsko podolje area based on R1 method and DTM OS.



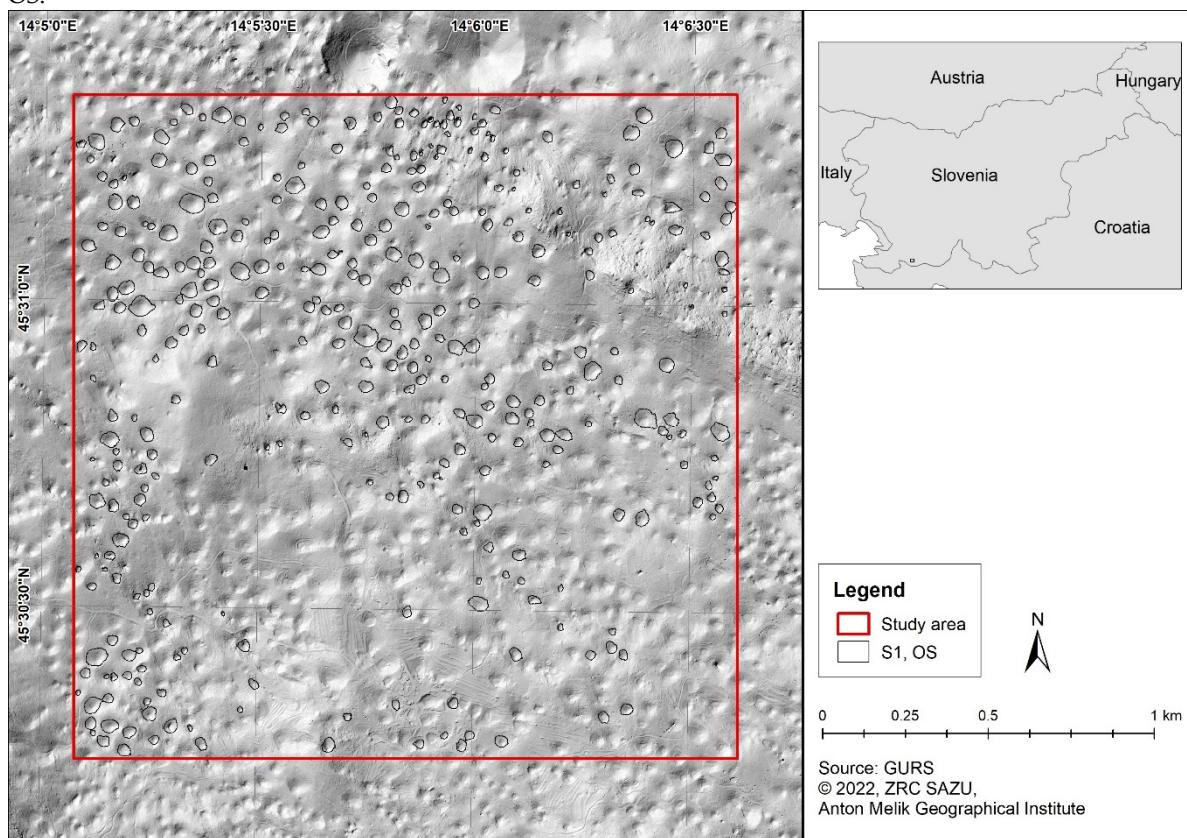
Supplementary figure S10: Detected karst depressions in Matarsko podolje area based on S1 method and DTM F1.



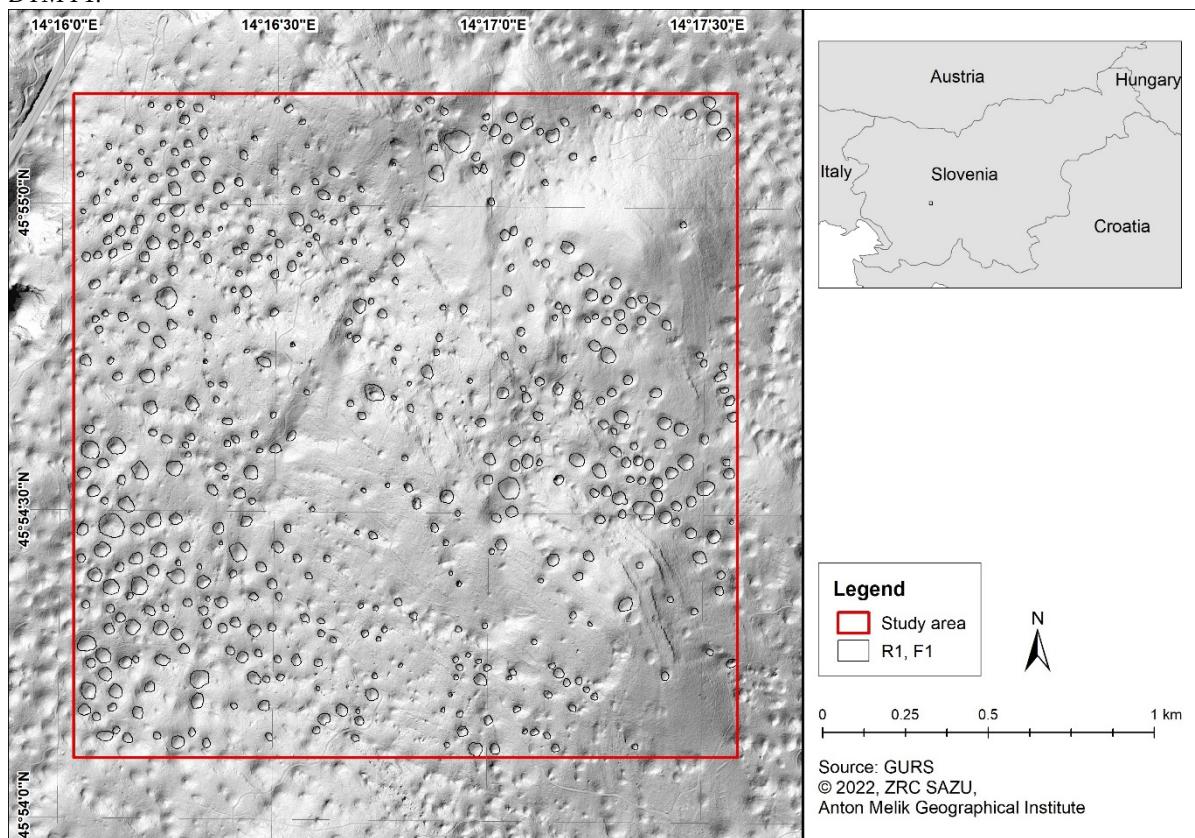
Supplementary figure S11: Detected karst depressions in Matarsko podolje area based on S1 method and DTM FS5.



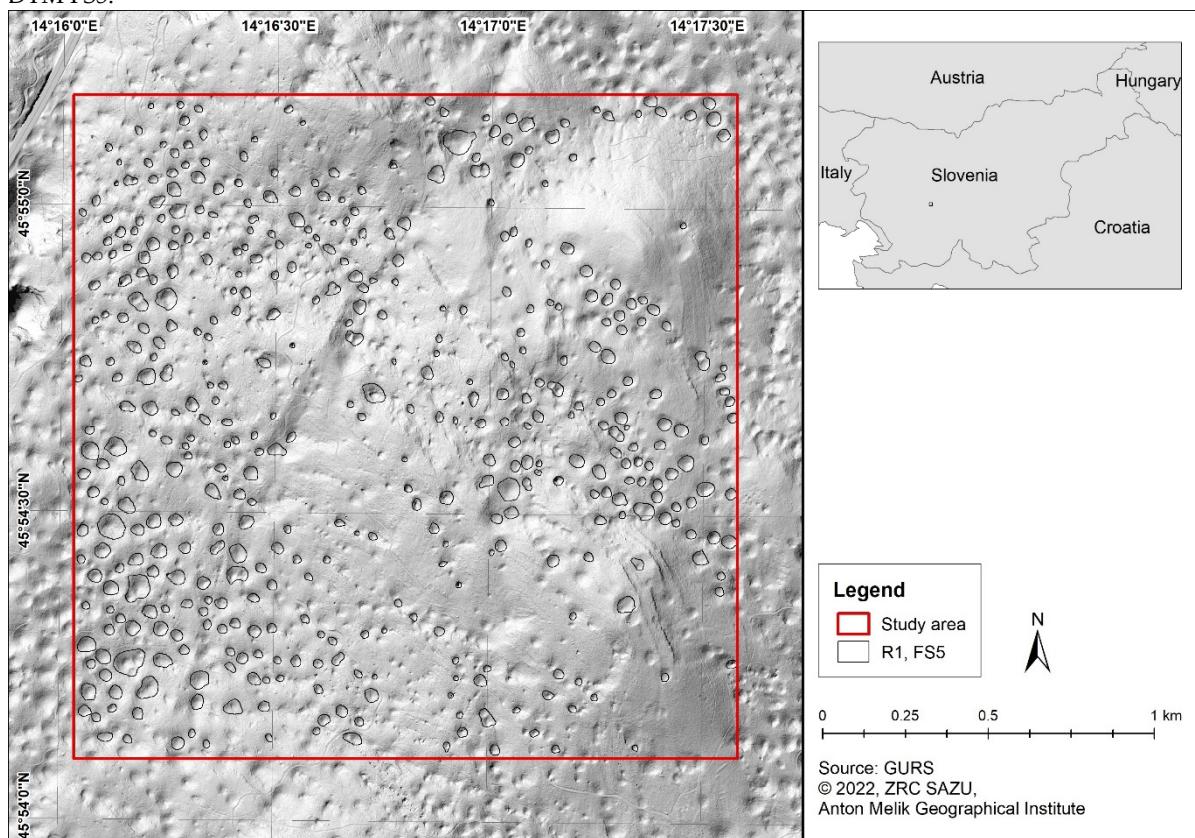
Supplementary figure S12: Detected karst depressions in Matarsko podolje area based on S1 method and DTM OS.



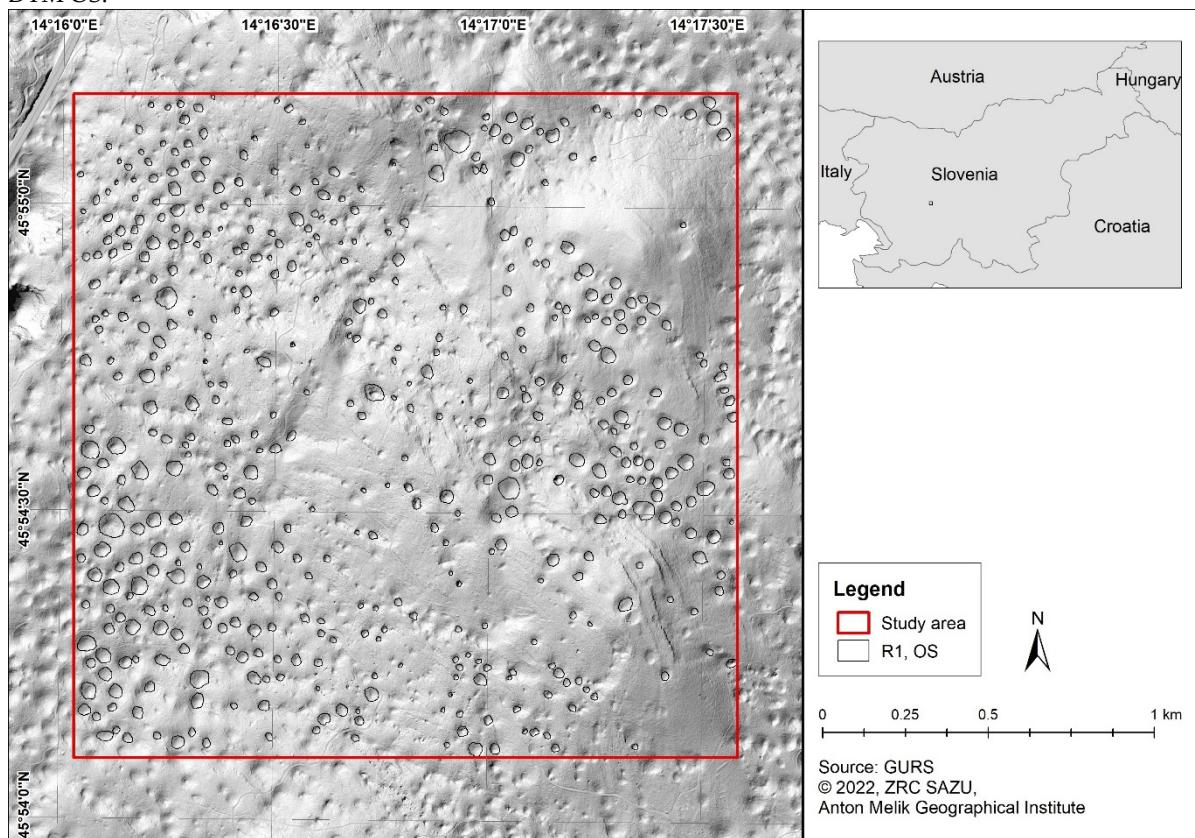
Supplementary figure S13: Detected karst depressions in Logaško-begunjski ravnik area based on R1 method and DTM F1.



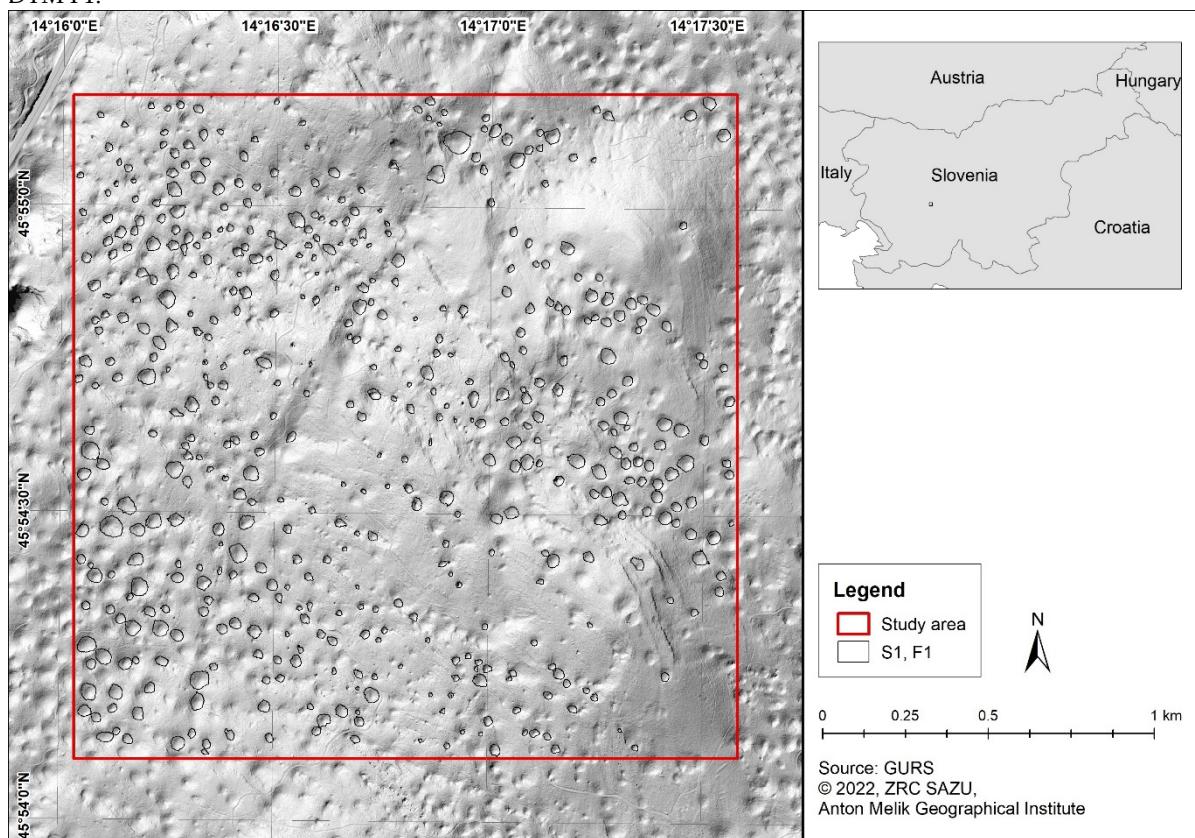
Supplementary figure S14: Detected karst depressions in Logaško-begunjski ravnik area based on R1 method and DTM FS5.



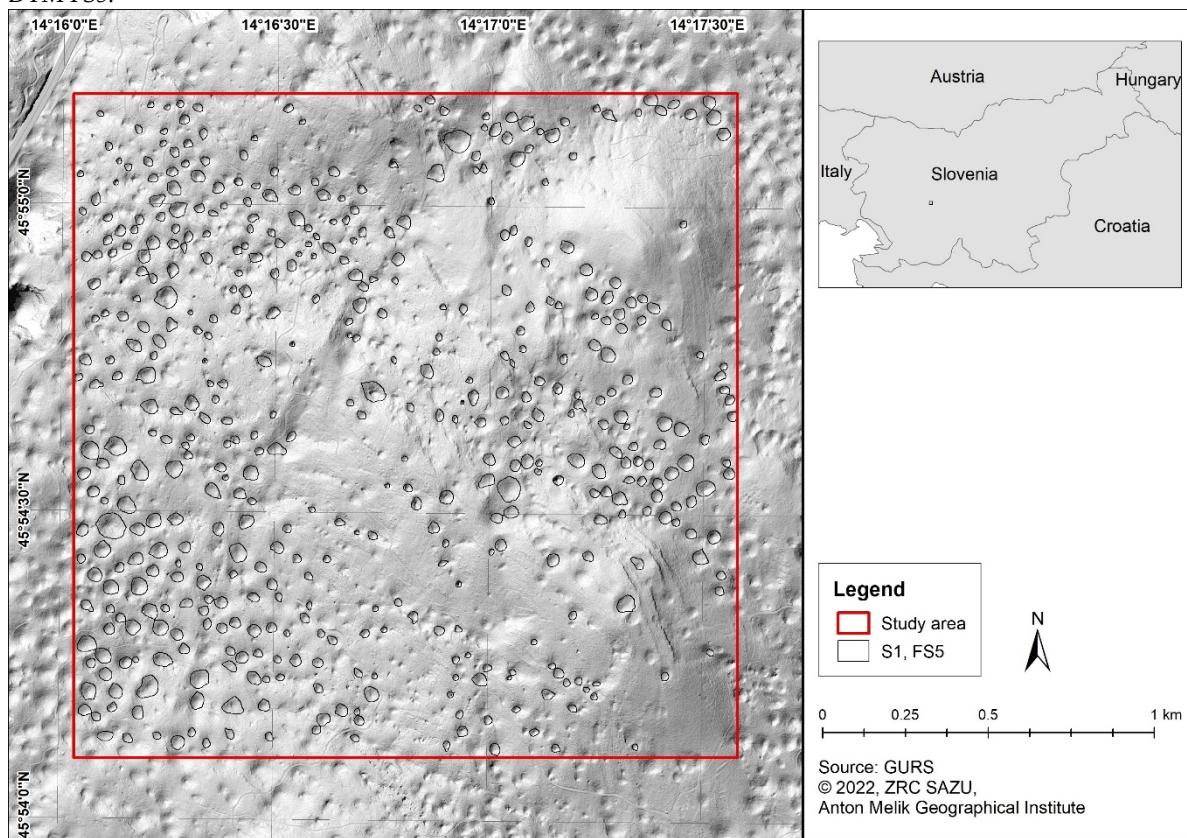
Supplementary figure S15: Detected karst depressions in Logaško-begunjski ravnik area based on R1 method and DTM OS.



Supplementary figure S16: Detected karst depressions in Logaško-begunjski ravnik area based on S1 method and DTM F1.



Supplementary figure S17: Detected karst depressions in Logaško-begunjski ravnik area based on S1 method and DTM FS5.



Supplementary figure S18: Detected karst depressions in Logaško-begunjski ravnik area based on S1 method and DTM OS.

