

Supplementary materials

Urban scale monitoring approach for the assessment of rising damp effects in Venice

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Table S1 Frequency table of variation of rising damp height; erosion extension; algal band; 0= no significant variation; 1=slight variation; 2=significant variation; /= non assessable

Mark	Count	Cumulative - Count	Percent - of Valid	Cumul % - of Valid	% of all - Cases	Cumulative % - of All
Variation of rising front height K-S d=.36762. p<.01						
-1	3	3	1.67598	1.6760	1.67598	1.6760
0	107	110	59.77654	61.4525	59.77654	61.4525
1	62	172	34.63687	96.0894	34.63687	96.0894
2	7	179	3.91061	100.0000	3.91061	100.0000
/	0	179	0		0	100
Variation of erosion extension K-S d=.39419. p<.01						
0	79	79	62.20472	62.2047	44.13408	44.1341
1	45	124	35.43307	97.6378	25.13966	69.2737
2	3	127	2.36220	100.0000	1.67598	70.9497
/	52	179	40.94488		29.05028	100.0000
Variation of Algal band K-S d=.36022. p<.01						
-1	2	2	3.9216	3.9216	1.11732	1.1173
0	31	33	60.7843	64.7059	17.31844	18.4358
1	15	48	29.4118	94.1176	8.37989	26.8156
2	3	51	5.8824	100.0000	1.67598	28.4916
/	128	179	250.9804		71.50838	100.0000

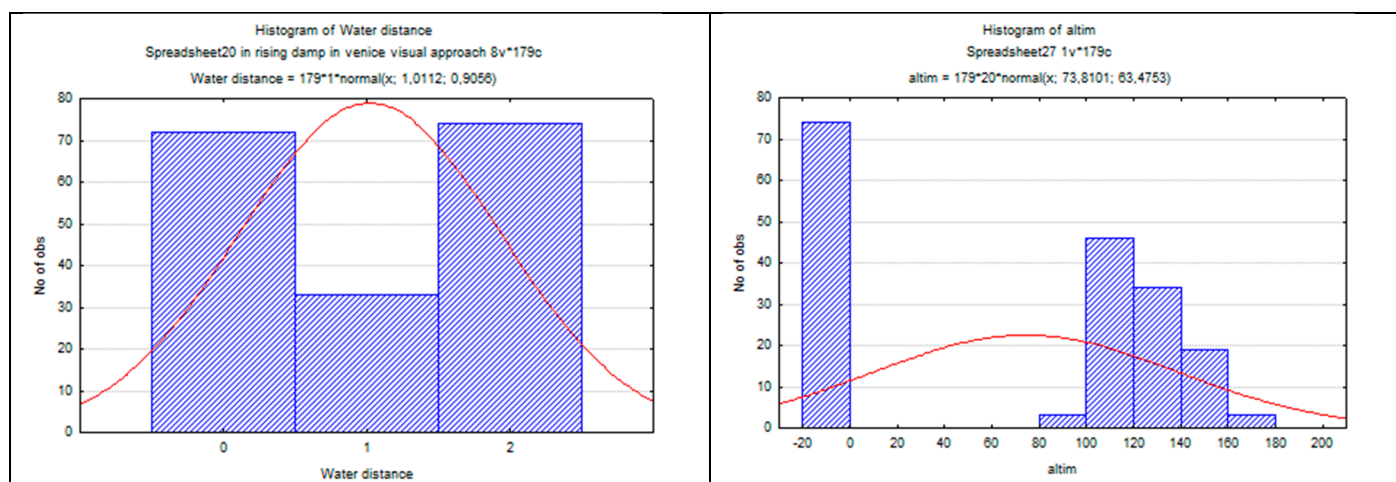
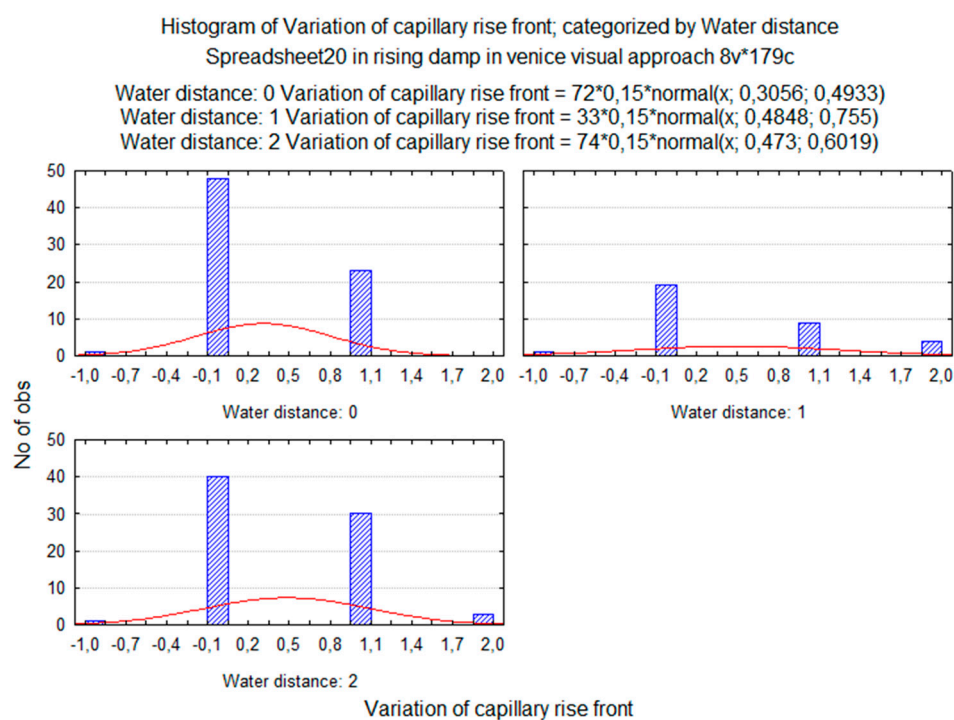
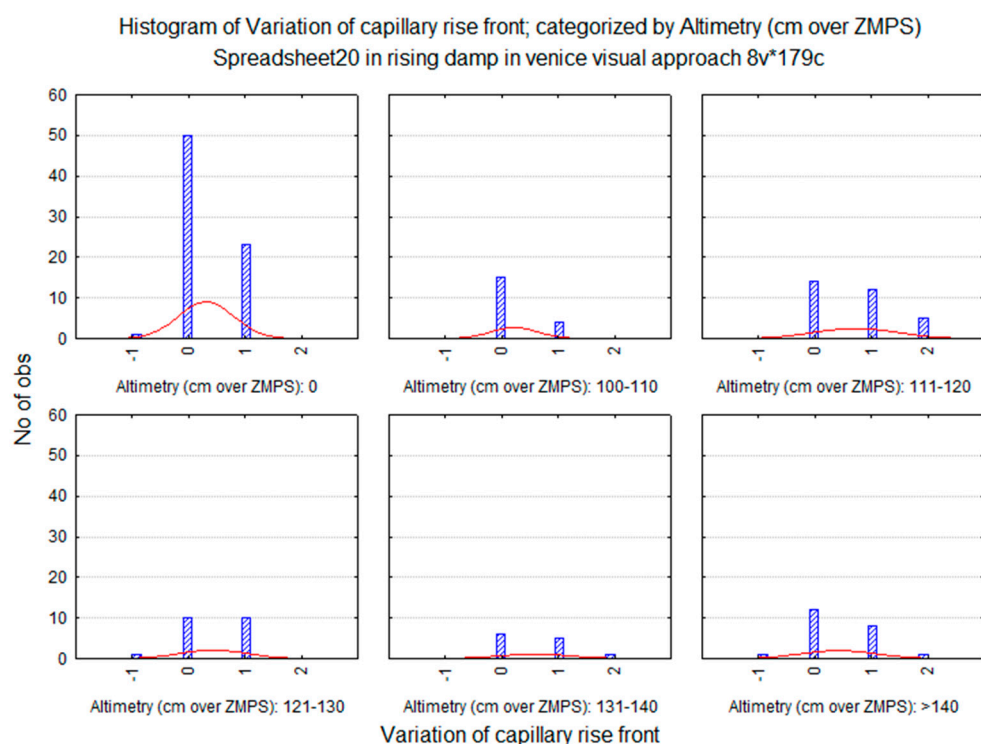
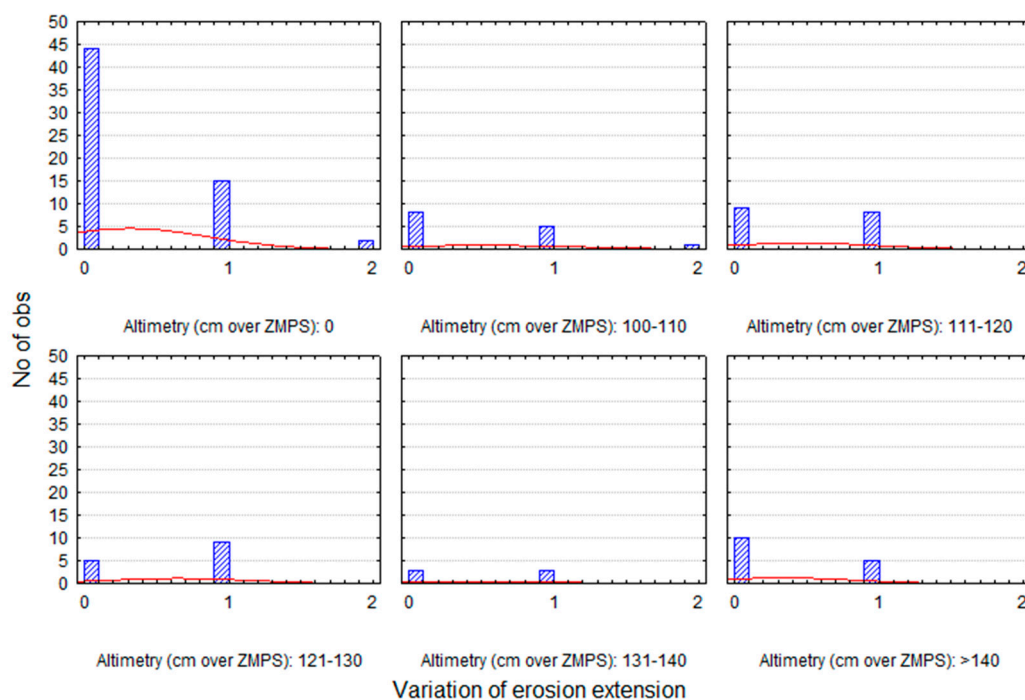


Figure S1 Histogram of frequency of masonries cases categorized according to their altimetry (0; 100–110; 110–120; 121–130; 131–140; >140 cm on ZMPS) and distance from water (0=directly in contact; 1= 1–5 m away; 2 = >5m from water)

Table S2 Number of observations visualized as histograms categorized by altimetry (0; 100–110; 110–120; 121–130; 131–140; >140 cm on ZMPS) and distance from water (0=directly in contact; 1= 1–5 m away; 2 = >5m from water)



Histogram of Variation of erosion extension; categorized by Altimetry (cm over ZMPS)
Spreadsheet20 in rising damp in venice visual approach 8v*179c



Histogram of Variation of erosion extension; categorized by Water distance
Spreadsheet20 in rising damp in venice visual approach 8v*179c

Water distance: 0 Variation of erosion extension = $59 \cdot 0,1 \cdot \text{normal}(x; 0,2881; 0,4931)$
 Water distance: 1 Variation of erosion extension = $19 \cdot 0,1 \cdot \text{normal}(x; 0,4737; 0,6967)$
 Water distance: 2 Variation of erosion extension = $49 \cdot 0,1 \cdot \text{normal}(x; 0,5102; 0,5051)$

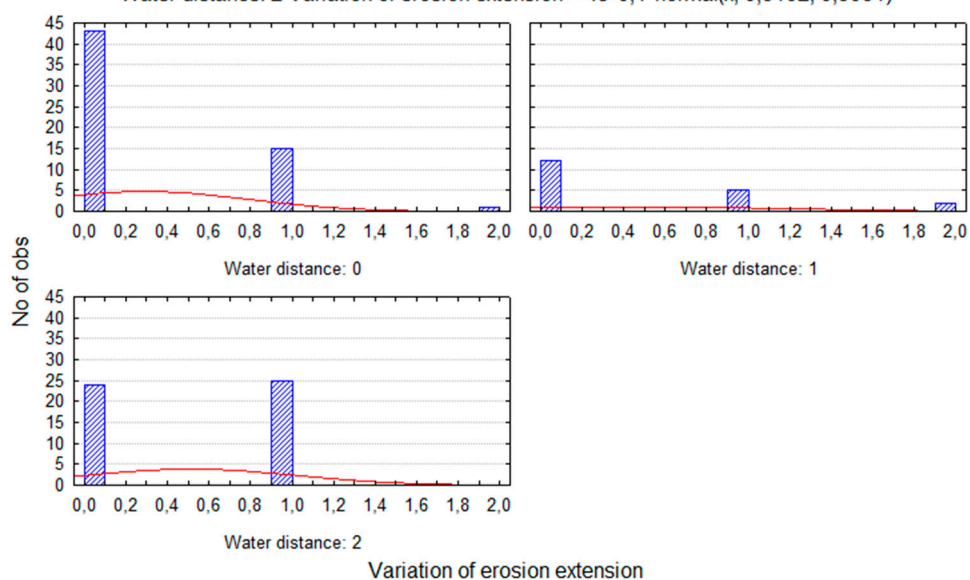


Table S3 ANOVA results on variation of capillary front (blu line) and erosion extension (red line) in reference to water distance and Altimetry

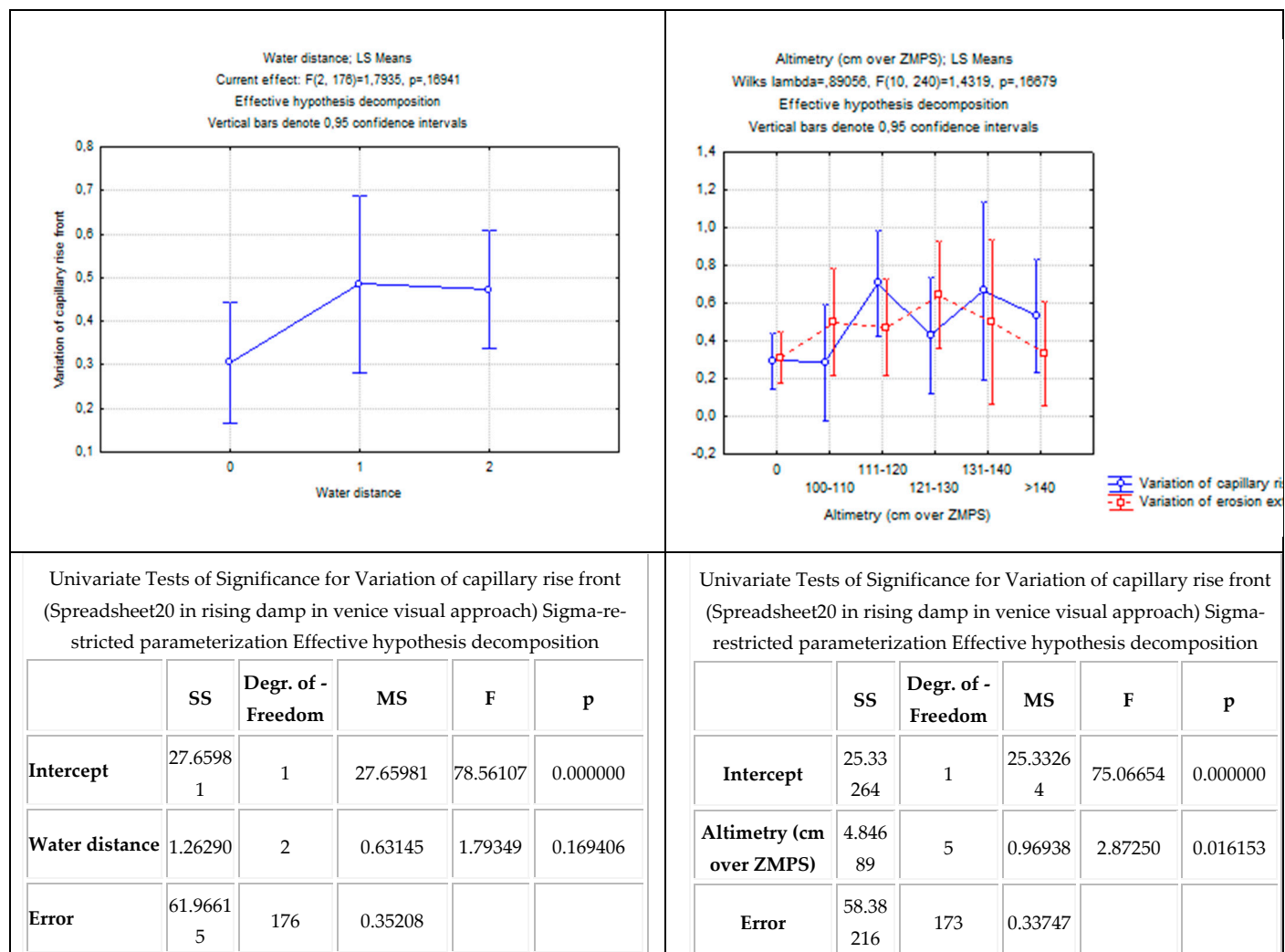


Table S4 Yearly cumulative precipitation and temperature 2000–2022 (left); monthly mean precipitation, relative humidity and average temperature during the 2000–2022 periods in Venice. Data freely available since 2000 on ARPAV Regional Agency of Veneto for the environmental protection and prevention and the Centro previsione e segnalazione maree, Municipality of Venice sites (www.Arpa.veneto.it ; www.comune.venezia.it)

