

Erratum to: Pravčice Rock Arch (Bohemian Switzerland National Park, Czech Republic) deterioration due to natural and anthropogenic weathering

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Published online: 9 September 2011
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Erratum to: Environ Earth Sci (2011) 63:1861–1878
DOI 10.1007/s12665-010-0881-z

Unfortunately, some of the geographic exposures were incorrect in Tables 1, 2 and 3. The correct versions of Tables 1, 2 and 3 are given below:

The online version of the original article can be found under doi:[10.1007/s12665-010-0881-z](https://doi.org/10.1007/s12665-010-0881-z).

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Table 1 List of samples taken from the PRA and subjected to analytical study

Sample	Height level (m)	Description
Profile I, height level A (base of lower part), western exposure		
I/A/1	0.5–0.9	White to grey salt efflorescence
I/A/2	0.5–0.9	Dendritic grey efflorescence
I/B	1.5–1.7	White to light grey isolated efflorescence
I/C	>1.7	White to grey isolated efflorescence in cavities
I/D	1.3–1.8	White to ochre, crumbling efflorescence
Profile II, height level A (base of lower part), southern exposure (southern pillar of the PRA)		
II/A	0.5	Compact thin whitish to light grey efflorescence
II/B	1.6–2.0	Dendritic white efflorescence
Profile III, height level A (base of medium part), eastern exposure (southern pillar of the PRA)		
III/A/1	0.3	Light grey to grey efflorescence on blackened case-hardened surface
III/A/2	0.8–1.0	Efflorescence on exposed (disintegrated) sandstone
III/B/1	0.0–0.3	Grey salt efflorescence
III/B/2	0.4–1.8	Light grey to grey efflorescence on blackened case-hardened surface
III/B/3	1.8–2.4	White to light grey efflorescence on the rims of pits
Profile IV, height level A (base of medium part), south-western exposure (northern pillar of the PRA)		
IV/1	1.8	Continuous brownish efflorescence on exposed (disintegrated) sandstone
IV/2	3.0	Light grey to grey efflorescence on blackened case-hardened surface
Profile V, height level B (base of medium part), south-eastern exposure (southern pillar of the PRA)		
V/1	0.0–0.05	Continuous and dendritic whitish to ochre efflorescence
V/2	0.05–0.2	Dendritic grey efflorescence
V/3	0.2	White to light grey “globules”
V/4	0.3–0.5	Dendritic light grey efflorescence
V/5	0.9–1.3	Dendritic light grey efflorescence
V/6	1.4–1.6	Dendritic light grey efflorescence
V/7	1.9–2.0	Dendritic light grey efflorescence
Profile VI, height level C (close to the base), eastern exposure		
VI/1	0.0–0.8	Continuous whitish efflorescence
VI/2	0.8–1.8	Continuous whitish efflorescence

Table 2 Crystalline phases as determined by XRD in salt efflorescence from the PRA

Sample	Height level (m)	Sulphates	Nitrates	Chlorides	Carbonates	Mixed salts	Oxalates
Profile III, height level A (base of medium part), eastern exposure (southern pillar of the PRA)							
III/B/3	1.8–2.4	K-al (++++)		hyd (±)			
III/B/2	0.4–1.8	gyp (+++), tsch (+), al (±)	nit (+)				
III/A/2	0.8–1.0	K-al (+++), gyp (+)		hyd (±)			ox (±)
III/A/1	0.3	gyp (++), tsch (+)	amnit (+)	krem (+)			
III/B/1	0.0–0.3	gyp (+++), tsch (++), al (+)					
Profile IV, height level A (base of medium part), south-western exposure (northern pillar of the PRA)							
IV/2	3.0	gyp (+++), Na-al (+)		sal (±)			
IV/1	1.8	gyp (++), K-al (+)		hyd (+), sin (±)			ox (±)
Profile I, height level A (base of lower part), western exposure							
I/D	1.3–1.8	K-al (+++), gyp (+)		hl (±), hyd (±)			
I/C	>1.7	gyp (++), tsch (+), K-al (+), Na-al (±)	nitr (++)				
I/B	1.5–1.7	K-al (+++), gyp (+)	nitrm (+)		plut (+)		
I/A/2	0.5–0.9	K-al (+++), gyp (+)	nitrm (+)	hyd (±)			
I/A/1	0.5–0.9	K-al (++), gyp (+), al (+)	nitr (++)			kai (±)	
Profile II, height level A (base of lower part), southern exposure (southern pillar of the PRA)							
II/B	1.6–2.0	gyp (+++), tsch (+), al (±)					
II/A	0.5	gyp (++), tsch (++), Na-al (±)	nitr (++)				
Profile V, height level B (base of medium part), south-eastern exposure (southern pillar of the PRA)							
V/7	1.9–2.0	gyp (++), K-al (+), star (+)			nah (±)		
V/6	1.4–1.6	gyp (++), K-al (++)		hyd (+)			ox (+)
V/5	0.9–1.3	gyp (++), K-al (++) , star (+)					ox (+)
V/4	0.3–0.5	gyp (++), K-al (++) , tut (+)					
V/3	0.2	hal (++), alg (+), alm (+) Na-al (+), eps (+), mel (±), syn (±)		sin (±)		gor (±)	
V/2	0.05–0.2	K-al (+++), gyp (+)		hyd (±)			
V/1	0.0–0.05	gyp (+++), K-al (++) , alg (+)		krem (+)			
Profile VI, height level C (close to the base), eastern exposure							
VI/2	0.8–1.8	K-al (+++), gyp (+)		hyd (±)			
VI/1	0.0–0.8	K-al (+++), gyp (++)		hyd (±)			

The semiquantitative data are provided as +++ (above 50 wt.%, dominant phase), ++ (15–50 wt.%, major phase), + (5–15 wt.%, minor phase), ± (below 5 wt.%, traces)

gyp gypsum, *al* alunite, *tsch* tschermigite, *Na-al* natroalunite, *K-al* potassium alum, *hal* halotrichite, *alg* alunogen, *alm* alumogenite, *syn* syngenite, *eps* epsomite, *mel* melanterite, *nitm* nitrammite, *nitr* nitratine, *nit* niter, *amnit* ammonian niter, *ha* halite, *hyd* hydrophilite, *sal* sal-ammoniac, *sin* sinjarite, *krem* kremersite, *nah* nahcolite, *plut* B/Plutschliite, *gor* gordaite, *kai* kainite, *ox* oxammite

Table 3 Water-soluble salts content (in wt%, determined by IEC) in efflorescence on sandstone of the PRA

Sample	Height level (m)	Cl ⁻	NO ₃ ⁻	SO ₄ ²⁻	Na ⁺	NH ₄ ⁺	K ⁺	Ca ²⁺	Mg ²⁺
Profile III, height level A (base of medium part), eastern exposure (southern pillar of the PRA)									
III/A/1	0.3	0.10	0.10	26.50	0.40	1.90	0.50	1.10	b.d.l.
III/A/2	0.8–1.0	b.d.l.	b.d.l.	30.60	0.10	2.80	0.50	1.20	b.d.l.
III/B/1	0.0–0.3	0.10	0.10	9.70	0.10	0.50	0.10	1.20	b.d.l.
III/B/2	0.4–1.8	0.02	0.10	3.20	0.04	0.20	0.10	0.40	b.d.l.
III/B/3	1.8–2.4	0.10	0.20	28.70	0.20	2.50	1.10	0.50	b.d.l.
Profile IV, height level A (base of medium part), south-western exposure (northern pillar of the PRA)									
IV/1	1.8	0.10	0.01	20.00	0.20	1.80	1.20	0.70	0.10
IV/2	3.0	0.10	0.05	18.90	0.10	1.40	0.80	0.90	0.20
Profile I, height level A (base of lower part), western exposure									
I/D	1.3–1.8	0.02	0.10	23.20	0.10	1.30	2.30	0.50	b.d.l.
I/C	>1.7	0.10	0.02	25.20	0.10	1.80	0.80	1.10	b.d.l.
I/B	1.5–1.7	0.03	0.10	27.80	0.02	2.10	1.80	0.50	b.d.l.
I/A/2	0.5–0.9	0.20	0.30	25.10	0.10	1.60	1.80	0.50	b.d.l.
I/A/1	0.5–0.9	2.70	2.60	19.80	0.10	1.00	0.60	2.60	0.10
Profile II, height level A (base of lower part), southern exposure (southern pillar of the PRA)									
II/B	1.6–2.0	0.10	b.d.l.	10.50	0.10	0.50	0.30	0.80	0.03
II/A	0.5	0.10	0.10	18.50	0.10	1.30	0.90	0.70	b.d.l.
Profile V, height level B (base of medium part), south-eastern exposure (southern pillar of the PRA)									
V/7	1.9–2.0	0.10	b.d.l.	19.80	0.20	1.10	1.50	0.90	0.02
V/6	1.4–1.6	0.10	b.d.l.	21.40	0.20	1.2	1.60	1.30	0.02
V/5	0.9–1.3	0.10	b.d.l.	18.70	0.20	1.00	1.20	0.90	0.02
V/4	0.3–0.5	0.10	b.d.l.	16.20	0.20	1.10	1.30	1.00	0.10
V/3white	0.2	0.20	0.05	40.50	0.50	0.01	b.d.l.	b.d.l.	1.50
V/3yellow	0.2	0.20	0.04	37.70	0.20	b.d.l.	0.10	0.01	0.30
V/2	0.05–0.2	0.10	b.d.l.	21.60	0.10	0.80	1.20	1.80	b.d.l.
V/1	0.0–0.05	0.10	b.d.l.	20.00	0.10	0.90	1.20	1.00	0.10
Profile VI, height level C (close to the base), eastern exposure									
VI/2	0.8–1.8	0.10	b.d.l.	18.80	0.10	1.20	2.30	0.1	b.d.l.
VI/1	0.0–0.8	0.10	b.d.l.	23.30	0.20	1.30	2.80	0.2	b.d.l.

b.d.l. below detection limit (which is 0.001 wt.% for the method and species determined)