



Corrigendum to “Evolution of low flows in Czechia revisited” published in Proc. IAHS, 369, 87–95, 2015

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In the paper “Evolution of low flows in Czechia revisited” by O. Ledvinka (Proc. IAHS, 369, 87–95, 2015), the following error occurred: due to the accidental exchange of some columns of underlying table containing the decisions based on unit root tests and the Hurst exponent estimates, some of the values given in Table 1 (in parentheses) and Table 2 are incorrect. Tables 1 and 2 should read as given below (see next pages). Furthermore, on page 92, the statement on the Hurst phenomenon standing behind detected trends (right column, second paragraph, second sentence) should read as follows: The Hurst phenomenon is more likely in the series of deficit volumes and their durations.

Table 1. Numbers of significant trends in drought-related series in Czechia during the period 1961–2005 according to various modifications of the Mann–Kendall test at the 0.1 and 0.05 levels. Figures in parentheses refer to the numbers associated with Hurst exponents significant at $\alpha = 0.05$. For series designations see Sect. 2.

Trend/series	$Q_{\min A}$	JD_A	$Q_{\min S}$	JD_S	$Q_{\min W}$	JD_W	V_{330}	D_{330}	V_{355}	D_{355}
BHMLESS (G1)										
Increasing (0.05)	1 (0)	0 (0)	2 (0)	0 (0)	2 (0)	0 (0)	0 (0)	0 (0)	2 (0)	1 (0)
Increasing (0.1)	3 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (0)	3 (0)	0 (0)	0 (0)
Not significant	28 (7)	31 (1)	31 (10)	31 (4)	31 (8)	33 (3)	32 (12)	32 (11)	26 (4)	29 (10)
Decreasing (0.1)	2 (1)	1 (0)	2 (0)	2 (0)	2 (0)	2 (0)	0 (0)	0 (0)	2 (0)	5 (1)
Decreasing (0.05)	2 (0)	4 (0)	1 (0)	3 (0)	1 (0)	1 (0)	1 (0)	1 (0)	6 (1)	1 (0)
BHMLESS (G2)										
Increasing (0.05)	1 (0)	0 (0)	1 (0)	0 (0)	4 (0)	0 (0)	5 (0)	4 (0)	11 (1)	10 (1)
Increasing (0.1)	0 (0)	0 (0)	0 (0)	0 (0)	2 (1)	0 (0)	4 (0)	2 (1)	7 (0)	7 (1)
Not significant	98 (22)	88 (7)	95 (24)	93 (9)	99 (8)	95 (1)	96 (22)	99 (18)	85 (17)	86 (16)
Decreasing (0.1)	3 (0)	11 (0)	7 (0)	8 (0)	1 (0)	7 (0)	1 (0)	3 (2)	3 (1)	4 (3)
Decreasing (0.05)	6 (1)	9 (1)	5 (1)	7 (0)	2 (0)	6 (0)	2 (1)	0 (0)	2 (1)	1 (0)
TFPW (G1)										
Increasing (0.05)	2 (0)	0 (0)	1 (0)	0 (0)	2 (0)	0 (0)	1 (0)	1 (0)	1 (0)	1 (0)
Increasing (0.1)	1 (0)	0 (0)	1 (0)	0 (0)	1 (0)	0 (0)	0 (0)	1 (0)	0 (0)	1 (0)
Not significant	30 (7)	30 (1)	31 (10)	31 (4)	30 (8)	32 (3)	34 (12)	33 (11)	32 (4)	32 (11)
Decreasing (0.1)	1 (0)	2 (0)	0 (0)	1 (0)	2 (0)	3 (0)	0 (0)	0 (0)	2 (1)	2 (0)
Decreasing (0.05)	2 (1)	4 (0)	3 (0)	4 (0)	1 (0)	1 (0)	1 (0)	1 (0)	1 (0)	0 (0)
TFPW (G2)										
Increasing (0.05)	1 (0)	0 (0)	1 (0)	0 (0)	6 (1)	0 (0)	5 (1)	4 (2)	2 (1)	6 (2)
Increasing (0.1)	0 (0)	0 (0)	0 (0)	0 (0)	1 (0)	0 (0)	5 (1)	5 (1)	9 (0)	6 (0)
Not significant	95 (22)	92 (7)	92 (24)	100 (9)	96 (8)	94 (1)	97 (21)	97 (18)	94 (18)	94 (18)
Decreasing (0.1)	6 (0)	8 (0)	7 (0)	3 (0)	2 (0)	8 (0)	1 (0)	1 (0)	1 (0)	1 (0)
Decreasing (0.05)	6 (1)	8 (1)	8 (1)	5 (0)	3 (0)	6 (0)	0 (0)	1 (0)	2 (1)	1 (1)
ABBS (G1)										
Increasing (0.05)	4 (0)	0 (0)	2 (0)	0 (0)	2 (0)	0 (0)	2 (0)	2 (0)	2 (0)	2 (0)
Increasing (0.1)	0 (0)	0 (0)	1 (0)	0 (0)	0 (0)	0 (0)	1 (0)	1 (0)	0 (0)	1 (0)
Not significant	29 (8)	30 (1)	29 (10)	30 (3)	31 (8)	33 (3)	30 (12)	32 (11)	25 (4)	26 (9)
Decreasing (0.1)	1 (0)	2 (0)	2 (0)	3 (1)	2 (0)	2 (0)	2 (0)	0 (0)	2 (0)	1 (0)
Decreasing (0.05)	2 (0)	4 (0)	2 (0)	3 (0)	1 (0)	1 (0)	1 (0)	1 (0)	7 (1)	6 (2)
ABBS (G2)										
Increasing (0.05)	1 (0)	0 (0)	1 (0)	0 (0)	7 (1)	0 (0)	9 (0)	8 (0)	15 (2)	11 (0)
Increasing (0.1)	2 (0)	0 (0)	1 (0)	0 (0)	1 (0)	0 (0)	3 (1)	4 (1)	10 (1)	10 (1)
Not significant	92 (22)	92 (7)	90 (24)	97 (9)	96 (8)	96 (1)	92 (21)	92 (18)	77 (14)	81 (17)
Decreasing (0.1)	5 (0)	9 (1)	6 (0)	4 (0)	2 (0)	9 (0)	0 (0)	2 (1)	2 (0)	3 (1)
Decreasing (0.05)	8 (1)	7 (0)	10 (1)	7 (0)	2 (0)	3 (0)	4 (1)	2 (1)	4 (3)	3 (2)

G1 – mountain water-gauging stations, G2 – lowland water-gauging stations, BHMLESS – Bayley–Hammersley–Matalas–Langbein–Lettenmaier modification, TFPW – trend-free pre-whitening modification, ABBS – block bootstrap with automatic selection of block length.

Table 2. Kendall's rank correlations between FARIMA(0, d , 0) Hurst exponent estimates and p values of selected trend tests for all stations together and separately for mountain (G1) and lowland (G2) water-gauging stations as regards low flows in Czechia during the period 1961–2005. For series designations see Sect. 2.

Method/series	$Q_{\min A}$	JD_A	$Q_{\min S}$	JD_S	$Q_{\min W}$	JD_W	V_{330}	D_{330}	V_{355}	D_{355}
BHMLLESS	-0.026	-0.109	-0.114	-0.073	-0.169	-0.259	-0.050	-0.079	-0.032	-0.059
BHMLLESS (G1)	0.025	-0.277	-0.029	-0.231	-0.235	-0.298	-0.048	-0.083	-0.267	-0.238
BHMLLESS (G2)	-0.063	-0.062	-0.169	-0.021	-0.142	-0.234	-0.063	-0.115	0.036	0.000
TFPW	0.021	-0.143	-0.041	-0.046	-0.127	-0.266	-0.078	-0.078	0.040	-0.059
TFPW (G1)	0.159	-0.316	0.128	-0.147	-0.130	-0.299	-0.087	0.029	-0.124	-0.273
TFPW (G2)	-0.038	-0.107	-0.120	-0.007	-0.133	-0.232	-0.069	-0.121	0.086	0.007

BHMLLESS – Bayley–Hammersley–Matalas–Langbein–Lettenmaier modification, TFPW – trend-free pre-whitening modification, boldface figures indicate correlations significant at $\alpha = 0.05$.