

Article

Linking Soil Hydrology and Creep: A Northern Andes Case

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Table S1. Basic statistics for runoff and percolation data measurements. They were calculated for the whole series, and discriminating between rainy (March–April–May (MAM), September–October–November (SON)) and dry (December–January–February (DJF), June–July–August (JJA)) periods.

Plot 1					
	Mean (mm/week)	Median (mm/week)	Standard Deviation (mm/week)	25th Percentile (mm/week)	75th Percentile (mm/week)
Runoff					
Whole Series	4.31	1.59	5.23	0.03	7.53
Hydrological year					
DJF	0.78	0.03	1.78	0.01	6.83
MAM	7.72	7.89	5.57	0.11	8.39
JJA	2.20	0.15	4.63	0.02	7.64
SON	4.78	2.96	4.91	0.03	7.64
Percolation (0.40 m)					
Whole Series	92.59	33.17	112.37	0.50	179.83
Hydrological year					
DJF	10.64	0.50	22.18	0.00	86.34
MAM	148.68	160.00	117.38	0.92	191.46
JJA	29.15	0.84	64.62	0.00	137.50
SON	132.80	92.34	118.73	0.00	155.88
Percolation (0.80 m)					
Whole Series	189.70	66.54	262.72	0.50	306.92
Hydrological year					
DJF	30.37	0.25	72.93	0.00	227.46
MAM	274.02	280.83	253.56	1.34	313.50
JJA	82.42	0.50	191.95	0.00	231.92
SON	281.23	126.18	319.16	0.00	300.00
Plot 2					

	Mean (mm/week)	Median (mm/week)	Standard Deviation (mm/week)	25th Percentile (mm/week)	75th Percentile (mm/week)
Runoff					
Whole Series	4.82	0.33	8.87	0.03	4.82
Hydrological year					
DJF	1.32	0.05	4.09	0.00	1.13
MAM	7.04	3.75	9.33	0.06	8.99
JJA	1.19	0.00	3.19	0.01	3.95
SON	7.32	1.75	11.55	0.01	3.95
Percolation (0.20 m)					
Whole Series	129.50	35.84	165.91	0.73	246.94
Hydrological year					
DJF	23.85	0.71	71.65	0.50	215.67
MAM	212.85	247.96	168.96	1.13	280.75
JJA	41.48	1.58	89.41	0.59	216.54
SON	174.88	86.25	185.90	0.71	228.63
Percolation (0.80 m)					
Whole Series	96.82	20.00	192.12	0.25	104.92
Hydrological year					
DJF	15.07	0.56	43.03	0.00	49.88
MAM	145.00	73.42	220.80	1.58	128.54
JJA	15.94	1.34	31.05	0.00	82.39
SON	156.34	54.17	245.28	0.00	90.08

Table S2. Basic statistics for the piezometric data measurements. They were calculated for the whole series, and discriminating between rainy (March–April–May (MAM), September–October–November (SON)) and dry (December–January–February (DJF), June–July–August (JJA)) periods.

	Mean (mm/week)	Median (mm/week)	Standard Deviation (mm/week)	25th Percentile (mm/week)	75th Percentile (mm/week)
Piezometer 1					
Whole Series	0.41	0.20	0.39	0.00	0.90
Hydrological year					
DJF	0.68	0.90	0.36	0.53	0.90
MAM	0.21	0.10	0.28	0.00	0.85
JJA	0.57	0.70	0.37	0.00	0.90
SON	0.38	0.05	0.43	0.00	0.90
Piezometer 2					
Whole Series	0.22	0.05	0.31	0.00	0.30
Hydrological year					

DJF	0.42	0.35	0.37	0.08	0.73
MAM	0.07	0.00	0.11	0.00	0.25
JJA	0.29	0.20	0.27	0.00	0.30
SON	0.19	0.00	0.33	0.00	0.38
	Mean (mm/week)	Median (mm/week)	Standard Deviation (mm/week)	25th Percentile (mm/week)	75th Percentile (mm/week)
Piezometer 3					
Whole Series	0.31	0.15	0.41	0.00	0.53
Hydrological year					
DJF	0.58	0.65	0.44	0.18	0.88
MAM	0.07	0.00	0.11	0.00	0.25
JJA	0.39	0.30	0.38	0.00	0.35
SON	0.30	0.00	0.47	0.00	0.60
Piezometer 4					
Whole Series	0.34	0.20	0.37	0.10	0.50
Hydrological year					
DJF	0.67	0.65	0.39	0.38	1.03
MAM	0.16	0.10	0.25	0.10	0.30
JJA	0.41	0.30	0.35	0.10	0.45
SON	0.33	0.10	0.39	0.10	0.58

Table S3. Basic statistics for net movements of the alti-planimetric surveys, calculated as the difference in position (relative to a reference point) between two consecutive campaigns.

Campaign 2 Net Movement (mm)	Campaign 3 Net Movement (mm)	Campaign 4 Net Movement (mm)	Campaign 5 Net Movement (mm)	Campaign 6 Net Movement (mm)
Mean				
43.26	41.48	77.15	59.97	42.95
Median				
36.30	31.38	74.63	60.26	42.65
Standard deviation				
33.93	28.83	51.19	49.11	14.71
25th percentile				
17.51	22.82	35.48	25.20	33.87
75th percentile				
62.64	55.86	85.67	77.10	55.15

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