

## File S3

**Table S1:** Permittivity Values for Andepts soil at steep slopes with different humidity levels.

Sample	Humidity level			
	Minimum	Slight	Moderate	High
1	1.9132	5.1009	8.9882	25.4289
2	1.6282	3.916	4.0895	13.0229
3	1.6537	3.5781	4.1276	78.1394
4	1.5264	4.7155	8.7823	10.4562
5	1.4097	3.8613	6.4663	32.7163
6	1.5138	5.4392	7.7386	15.1195
7	1.4977	4.1745	4.7851	52.3837
8	1.4356	3.299	9.907	18.6512
9	1.467	3.6719	8.3451	20.3395
10	1.4118	4.3267	4.668	55.3808
11	1.5288	3.6233	7.8249	14.5303
12	1.4329	4.6172	12.4743	59.1263
13	1.3406	5.2454	13.9149	46.565
14	1.3719	4.2181	9.3176	85.8448
15	1.5041	4.4276	6.2951	18.1244
16	1.4932	3.7879	10.8886	19.549
17	1.3597	3.2948	8.0208	88.8176
18	1.3402	2.8241	10.6342	45.0653
19	1.4865	3.6805	6.3324	38.7107
20	1.485	3.3519	6.4009	22.8466
<b>Promedio</b>	<b>1.49</b>	<b>4.057695</b>	<b>8.00007</b>	<b>38.54092</b>

**Table S2:** Permittivity Values for Andepts soil at very steep slopes with different humidity levels.

Sample	Humidity level			
	Minimum	Slight	Moderate	High
1	3.2413	4.6867	9.6728	44.6481
2	3.6311	3.3683	7.3362	19.3082
3	3.8472	3.2166	10.7227	9.5129
4	2.4877	3.1323	6.8533	45.1865
5	2.2032	3.9574	6.38	28.9095
6	3.5456	5.7977	5.4808	17.0749
7	2.5447	3.1297	10.4254	23.9097
8	5.26	4.6391	9.8691	27.9316
9	3.6155	4.415	10.4068	9.5635
10	2.8988	5.4812	7.0431	56.0764
11	4.7026	3.3776	5.8093	36.8832
12	2.1842	5.3994	10.7322	28.6645
13	2.5043	5.5418	7.6436	19.9912
14	2.851	6.346	9.178	33.3229
15	3.011	6.4889	9.4606	11.1017
16	5.7164	4.234	9.1329	8.7023
17	3.5732	5.9362	9.039	40.3067
18	3.1575	3.5626	5.6267	17.2403
19	3.9305	5.5277	7.2599	20.291
20	4.1898	4.0004	6.1948	37.3616
<b>Average</b>	<b>3.45478</b>	<b>4.61193</b>	<b>8.21336</b>	<b>26.799335</b>