

Supplement: CAMELS-LUX: Highly Resolved Hydro-Meteorological and Atmospheric Data for Physiographically Characterized Catchments around Luxembourg

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Section S1 of this supplement contains a list of precipitation stations including the maintaining institution and location used
for the interpolation of precipitation station data. Section S2 contains a list of the stream gauges and their respective stations
used for interpolation. In case there is a missing value in the discharge data time series, the gap was filled using a close by and
similarly reacting station. The code in the time series "Qflag" refers to the stream gauge that was used for the filling of that
5 particular gap. The translation of this coding is shown in the tables below.

S1 List of precipitation stations

Table S1. Precipitation stations that were used for the interpolated station product in CAMELS-LUX. The annual precipitation sum is calculated from 2003-2020.

ID	Station	Elevation	Institution	Longitude	Latitude	P [mm/a]
1	Arsdorf	416	ASTA	5.848680	49.858910	669
2	Asselborn	479	ASTA	5.969607	50.096857	616
3	Beringen	216	ASTA	6.111794	49.762003	524
4	Bettendorf	187	ASTA	6.209470	49.874100	511
5	Bigonville	328	AGE	5.801386	49.870038	658
6	Bleesbreck	190	AGE	6.191111	49.871389	517
7	Bollendorf	172	AGE	6.358056	49.850278	525
8	Boulange	350	LIST	5.965666	49.383029	590
9	Budersberg	400	LIST	6.056289	49.480410	542
10	Burmerange	262	LIST	6.328933	49.494745	484
11	Cessange	316	LIST	6.089277	49.580391	535
12	Clemency	334	ASTA	5.875025	49.598810	603
13	Dahl	474	ASTA	5.980935	49.935958	603
14	Dellen	490	AGE	5.956111	49.860833	694
15	Diekirch	185	AGE	6.150909	49.863565	516
16	Echternach	243	ASTA	6.443379	49.803102	520
17	Esch Sure	345	ASTA	5.921212	49.909078	564
18	Eschdorf	514	ASTA	5.936060	49.880000	633
19	Ettelbruck	254	ASTA	6.089276	49.852864	652
20	Findel	376	MeteoLux	6.203470	49.626100	645
21	Fouhren	356	ASTA	6.187350	49.918490	551
22	Godbrange	325	ASTA	6.235691	49.736373	478
23	Grevenmacher	190	ASTA	6.435413	49.680876	527
24	Harlange	480	AGE	5.798894	49.926580	656
25	Heinerscheid	525	AGE	6.090235	50.093866	613
26	Hersberg	377	LIST	6.316190	49.752750	479
27	Holler	457	ASTA	6.046800	50.122139	635
28	Holtz	463	AGE	5.794499	49.804752	680
29	Hosingen	517	ASTA	6.101470	49.993046	627

Table S1. Long table continued.

ID	Station	Elevation	Institution	Longitude	Latitude	P [mm/a]
30	Huldange	558	AGE	6.023861	50.161787	655
31	Kautenbach	250	AGE	6.024836	49.946497	591
32	Koerich-ASTA	262	ASTA	5.945288	49.679383	650
33	Koerich-AGE	263	AGE	5.945184	49.679393	593
34	Livange	269	AGE	6.115247	49.526388	544
35	Mamer	315	ASTA	6.015620	49.633900	597
36	Merl	307	ASTA	6.091559	49.612945	583
37	Mersch	220	AGE	6.115768	49.753149	537
38	Oberkorn	378	ASTA	5.900897	49.512306	684
39	Olldorf	328	DWD	6.382000	49.945000	529
40	Perl-Nennig	152	DWD	6.379000	49.535000	530
41	Potashbiere	260	AGE	6.393733	49.678315	538
42	Reckange	293	ASTA	6.005820	49.562444	560
43	Reichlange	256	AGE	5.926111	49.775460	602
44	Remerschen	183	ASTA	6.349110	49.490980	502
45	Remich	207	ASTA	6.354936	49.545185	526
46	Reuler	492	ASTA	6.036560	50.063314	624
47	Roeser	265	ASTA	6.141727	49.540144	563
48	Roodt-ASTA	437	ASTA	5.820203	49.794506	667
49	Roodt-LIST	488	LIST	5.831247	49.806087	622
50	Sandweiler	372	LIST	6.210994	49.616949	545
51	Schiffange	282	LIST	6.028375	49.513710	542
52	Schimpach	379	ASTA	5.847459	50.009325	635
53	Schneifelforsthaus	649	DWD	6.419000	50.297000	740
54	Stadtbredimus	224	ASTA	6.358820	49.578980	550
55	Steinsel	247	ASTA	6.123940	49.687320	574
56	Trier-Zewen	132	DWD	6.613000	49.733000	532
57	Trintange	217	ASTA	6.280224	49.574204	521
58	Useldange	280	ASTA	5.967486	49.767397	570
59	Vianden	229	AGE	6.206132	49.941292	559
60	Waldbillig	315	ASTA	6.277300	49.798060	479
61	Walferdange	330	AGE	6.130223	49.668649	552
62	Weierbach	499	LIST	5.794526	49.831967	687
63	Welscheid	271	AGE	6.047131	49.883517	639
64	Wincrange	496	ASTA	5.926335	50.060700	635
65	Wincrange-AGE	497	AGE	5.926308	50.060728	616

S2 List of stream gauges used for interpolations of discharge data

Table S2. Stream gauges that were used to interpolate gaps in the discharge data. While flag=1 is a normal linear interpolation, flags=2-4 refer to the different stream gauges that were consulted for the transfer of specific discharge.

ID	Gauge	Stream	Gauge for interpolation (flag = 2)	Gauge for interpolation (flag = 3)	Gauge for interpolation (flag = 4)
1	Livange	Alzette			
2	Hesperange	Alzette			
3	Pfaffenthal	Alzette			
4	Hunsdorf	Alzette	Mersch (Alzette)		
5	Mersch	Alzette	Hunsdorf (Alzette)		
6	Ettelbruck	Alzette			
7	Reichlange	Attert			
8	Useldange	Attert			
9	Bissen	Attert			
10	Livange	Bibeschbach	Huncherange (Mier- bech)		
11	Kautenbach	Clerve	Merkholtz (Kirel)	Kautenbach (Wiltz)	
12	Hesperange	Drosbech	Hesperange (Alzette)	Cessange (Ruisseau de Cessange)	
13	Bettembourg	Dudelingerbach	Livange (Alzette)		
14	Hagen	Eisch	Mamer (Mamer)		
15	Hunnebour	Eisch			
16	Sinspelt	Enz			
17	Huwelerbach	Huwelerbach	Schwebich (Useldange)		
18	Gemund	Irsen			
19	Kayl	Kaylbach	Livange (Alzette)		
20	Merkholtz	Kirel	Kautenbach (Clerve)		
21	Mamer	Mamer			
22	Schoenfels	Mamer			
23	Huncherange	Mierbech			
24	Giesdorf	Nims			
25	Seffern	Nims			
26	Alsdorf-Oberecken	Nims			
27	Dasbourg	Our			

Table S2. Long table continued.

ID	Gauge	Stream	Gauge for interpolation (flag = 2)	Gauge for interpolation (flag = 3)	Gauge for interpolation (flag = 4)
28	Gemund	Our			
29	Vianden	Our			
30	Niederpallen	Pall	Reichlange (Attert)	Useldange (Schwebich)	Useldange (Attert)
31	Luxembourg	Petrusse	Hesperange (Drosbech)	Merl (Ruisseau de Merl)	Pfaffenthal (Alzette)
					4th interpolation station: Cessange (Ruisseau de Cessange)
32	Prüm	Prüm			
33	Echtershausen	Prüm			
34	Prümzurlay	Prüm			
35	Platen	Roudbach	Useldange (Attert)		
36	Cessange	Ruisseau de Cessange	Hesperange (Drosbech)	Pfaffenthal (Alzette)	Merl (Ruisseau de Merl)
37	Colpach	Rau de Colpach	Weierbach (Weierbach)		
38	Merl	Ruisseau de Merl	Cessange (Ruisseau de Cessange)	Luxembourg (Petrusse)	
39	Useldange	Schwebich	Useldange (Wollefsbach)	Reichlange (Attert)	
40	Bigonville	Sure			
41	Heiderscheidergrund	Sure			
42	Michelau	Sure			
43	Diekirch	Sure			
44	Bollendorf	Sure			
45	Rosport	Sure			
46	Mertert	Syre			
47	Niederfeulen	Wark	Welscheid (Wark)		
48	Welscheid	Wark	Niederfeulen (Wark)		
49	Ettelbruck	Wark			
50	Weierbach	Weierbach	Colpach (Ruisseau de Colpach)		
51	Winseler	Wiltz	Kautenbach (Wiltz)		
52	Kautenbach	Wiltz			

Table S2. Long table continued.

ID	Gauge	Stream	Gauge for interpolation (flag = 2)	Gauge for interpolation (flag = 3)	Gauge for interpolation (flag = 4)
53	Useldange	Wollefsbach	Colpach (Ruisseau de Colpach)		
54	Bous	Aalbach	Mertert (Syre)	Hesperange (Drosbech)	
55	Larochette	Ernz Blanche			
56	Hallerbach	Hallerbach			