

Supplement of Hydrol. Earth Syst. Sci., 20, 4307–4322, 2016  
<http://www.hydrol-earth-syst-sci.net/20/4307/2016/>  
doi:10.5194/hess-20-4307-2016-supplement  
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*Supplement of*

## **The rainfall erosivity factor in the Czech Republic and its uncertainty**

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In table S1 we provide following information on the station data used in our study:

- ID** Station ID
- Name** Station name
- Missing** List of missing years in the considered period (1989-2003)
  - x** longitude [m] in the Czech S-42 - Pulkovo 1942/Gauss-Krüger zone 3 projection
  - y** latitude [m] (same projection)
  - z** altitude [m]
- r.cv** coefficient of variation of monthly May–September precipitation [-]
- r.p95** mean fraction of precipitation above the 95% quantile of monthly May–September precipitation [-]
- r.meas** average May–September precipitation [mm]
- R** R-factor [ $\text{MJ ha}^{-1} \text{mm h}^{-1}$ ]

Table S1: Overview of 96 stations used within the study.

ID	Name	Missing	x	y	z	r.cv	r.p95	r.meas	R
B1BYSH01	Bystřice pod Hostýnem	1989,1990	3693606	5477142	317	0.68	0.16	85.79	960
B1LUHA01	Luhačovice		3701515	5445226	254	0.59	0.14	75.88	597
B2BTUR01	Brno	2001,2002,2003	3623200	5448123	241	0.57	0.13	58.61	473
B2BYSP01	Bystřice nad Pernštejnem		3590518	5487750	573	0.51	0.13	65.25	688
B2BZAB01	Brno		3614220	5454973	236	0.59	0.13	60.95	810
B2DUKO01	Dukovany	1989,1990	3582847	5440997	400	0.57	0.14	55.53	411
B2JEVI01	Jevišovice		3571800	5429353	330	0.61	0.15	56.03	557
B2KMYS01	Kostelní Myslová		3532034	5447610	569	0.55	0.13	67.19	812
B2KUCH01	Kuchařovice		3579681	5417225	334	0.55	0.13	58.65	511
B2LEDN01	Lednice	1989,1990	3632300	5408262	177	0.62	0.15	60.55	543
B2MBUD01	Moravské Budějovice	1989,1990	3559087	5435531	457	0.58	0.14	61.89	807
B2NEDV01	Nedvězí	1989,1990	3594610	5501103	722	0.64	0.15	74.07	648

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B2POHO01	Pohořelice		3611029	5428329	183	0.61	0.14	56.40	547
B2VIRP01	Vír		3595050	5493301	473	0.53	0.12	66.67	552
B2VRAN01	Vranov nad Dyjí		3560012	5419548	354	0.56	0.14	61.98	485
B2ZIDL01	Židlochovice		3617696	5435108	180	0.63	0.15	55.89	550
C1BLAT01	Blatná	1989,1990	3418261	5478459	452	0.50	0.12	65.08	595
C1CHAN01	Chanovice	1989,1990	3407054	5475145	533	0.55	0.13	73.36	768
C1CHUR01	Churáňov		3398796	5438180	1117	0.52	0.13	101.27	859
C1KEST01	Kestřany	1989,1990	3432578	5459888	381	0.55	0.14	64.62	791
C1ORLV01	Orlík nad Vltavou	1989,1990	3439800	5485721	429	0.59	0.14	65.25	606
C1STRA01	Strakonice	1989,1990	3421679	5458175	427	0.53	0.12	68.72	633
C1TEME01	Temelín		3452036	5451865	503	0.60	0.14	70.12	808
C1VIMP01	Vimperk	1989,1990	3411022	5437113	657	0.56	0.13	81.85	849
C2BORK01	Borkovice		3473586	5452987	419	0.49	0.12	70.39	626
C2CBUD01	České Budějovice	1989,1990	3460986	5425836	388	0.66	0.16	77.04	955
C2CERN01	Černovice	1989,1990	3497276	5469418	580	0.54	0.13	81.24	691
C2PVES01	Pohorská Ves		3472979	5390801	745	0.71	0.17	100.46	1000
C2TREB01	Třeboň		3483309	5441883	423	0.53	0.13	73.03	728
H1BILA01	Bílá Třebešná	1989,1990	3554447	5592081	322	0.54	0.13	65.52	362
H2DEST01	Deštné v Orlic. horách	2001,2002,2003	3596308	5575866	656	0.61	0.15	104.83	1108
H2NEKO01	Nekoř	1989,1990	3611808	5550321	488	0.54	0.13	84.32	763
H2RYCH01	Rychnov nad Kněžnou	1989,1990,2003	3590742	5560002	335	0.57	0.13	75.97	807
H2USTI01	Ústí nad Orlicí		3602007	5539655	402	0.58	0.14	76.73	670
H3HERM01	Heřmanův Městec	1989,1990	3548408	5534944	275	0.56	0.12	72.48	615
H3LITM01	Litomyšl	1989,1990,2003	3594702	5526693	351	0.60	0.14	73.11	496
H3SVRA01	Svratouch		3574512	5511915	737	0.63	0.14	83.40	626
H3TRST01	Trstěnice	1989,1990	3596557	5520262	420	0.70	0.16	75.50	811
L1DNES01	Dnešice		3374745	5498021	363	0.57	0.13	62.76	503
L1HOJS01	Železná Ruda		3368651	5454858	867	0.54	0.13	111.18	987
L1PLZM01	Plzeň		3382936	5512582	335	0.58	0.13	60.10	401
L2KONL01	Konstantinovy Lázně	2002,2003	3354532	5530021	527	0.54	0.13	56.89	404
L2KRAU01	Krásné Údolí		3351481	5550940	642	0.55	0.13	61.66	468
L2LEST01	Lestkov		3347228	5530101	595	0.50	0.11	60.17	369
L2PRIM01	Přimda	2001,2002	3332398	5506699	742	0.47	0.12	69.61	364
L2STRI01	Stříbro		3355704	5515488	412	0.59	0.13	59.35	524
L2ZBIR01	Zbiroh		3410292	5525465	480	0.59	0.13	69.18	509

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ID	Name	Missing	x	y	z	r.cv	r.p95	r.meas	R
L3CHEB01	Cheb	2001,2002,2003	3313231	5551773	483	0.44	0.11	60.90	341
L3FRAL01	Františkovy Lázně		3310579	5557222	435	0.50	0.13	59.57	559
L3KVAL01	Karlovy Vary		3351013	5565423	603	0.47	0.12	59.97	399
L3PREB01	Přebuz		3330843	5584029	889	0.53	0.13	93.19	534
O1CERV01	Červená		3683076	5519195	749	0.59	0.14	82.67	713
O1HODS01	Hodslavice	1989,1990	3718997	5494915	340	0.70	0.16	91.05	779
O1JABL01	Jablunkov	1989,1990	3770669	5502444	378	0.66	0.16	113.39	945
O1PORU01	Ostrava	1989,1990	3727318	5526234	238.60	0.62	0.15	83.66	951
O1RASK01	Raškovice	1989,1990	3750488	5507170	391	0.62	0.15	119.88	1523
O1RYMA01	Rýmařov	1989	3664075	5538310	645	0.50	0.12	79.11	710
O1VITK01	Vítkov	1989,1990	3698809	5519629	489	0.67	0.15	77.26	589
O2LUKA01	Luká	1989,1990	3641048	5504024	510	0.67	0.16	70.78	800
O2STME01	Staré Město	1989,1990,2003	3620902	5519394	408	0.68	0.16	67.97	662
O3BECV01	Horní Bečva		3739234	5482832	565	0.61	0.15	114.51	1043
P1KRIV01	Křivoklát	1993,1994	3419823	5545717	323	0.55	0.13	64.25	492
P1NEUM01	Neumětely		3430763	5524984	322	0.58	0.14	61.55	408
P1PKLM01	Praha		3458439	5551140	191	0.53	0.12	54.68	350
P1PKOM01	Praha		3457490	5539746	210	0.56	0.13	59.79	462
P1PRUZ01	Praha		3446900	5552355	364	0.49	0.11	57.65	365
P1PUHR01	Praha		3471600	5544535	299	0.54	0.13	67.05	520
P2BRAN01	Brandýs nad Labem-St.B	2003	3475764	5562034	179	0.52	0.11	65.97	708
P2DESN01	Desná	2003	3522511	5628770	772	0.55	0.14	108.42	794
P2HARR01	Harrachov	2003	3530730	5626865	670	0.53	0.13	104.07	764
P2NVES01	Káraný	2003	3480872	5560534	170	0.52	0.11	59.07	462
P2SEMC01	Semčice	1994,2003	3500315	5581723	234	0.50	0.11	64.51	594
P3BOHD01	Bohdaneč		3516127	5516276	460	0.51	0.12	74.78	726
P3HAVL01	Havlíčkův Brod		3541896	5497872	455	0.55	0.13	77.45	724
P3KOSE01	Košetice	2002,2003	3505765	5493421	534	0.50	0.12	69.85	576
P3NRYC01	Nový Rychnov		3526501	5472628	624	0.49	0.13	80.62	799
P3ONDR01	Ondřejov		3484535	5530578	485	0.59	0.14	73.02	697
P3PRIB01	Přibyslav		3555140	5494753	530	0.51	0.13	74.50	610
P3STAN01	Vavřínek		3504872	5530069	415	0.52	0.12	67.99	468
U1BLSA01	Blšany		3390546	5566132	290	0.52	0.12	52.40	350
U1JIRK01	Otvice	1994	3389790	5595547	325	0.60	0.15	53.82	742
U1KOPI01	Kopisty	2001,2002,2003	3402419	5602319	240	0.53	0.12	51.30	324

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U1LOUN01	Louny		3416045	5580843	230	0.52	0.12	55.88	360
U1MEDE01	Měděnec		3367232	5590313	828	0.50	0.12	76.52	809
U1NOVE01	Nová Ves v Horách		3392769	5607915	725	0.52	0.13	82.39	550
U1SNEZ01	Sněžník	1995	3435394	5629991	567	0.52	0.12	80.99	588
U1ULKO01	Ústí nad Labem		3432234	5617392	375	0.50	0.11	63.15	356
U1ULMA01	Ústí nad Labem	1990,1997,1998	3433409	5610891	150	0.51	0.12	61.43	381
U1ZATE01	Žatec		3396797	5580572	210	0.53	0.12	53.47	431
U2BEDR01	Bedřichov	1995	3509672	5631545	777	0.55	0.13	115.17	710
U2CELI01	Česká Lípa	1996	3467642	5616096	252	0.52	0.12	63.47	443
U2CHRI01	Chřibská		3466511	5635783	440	0.48	0.12	84.26	580
U2DOKY01	Doksy	2003	3476446	5604124	284	0.48	0.10	69.65	595
U2JAPO01	Jablonné v Podještědí		3484110	5626766	320	0.57	0.13	71.38	468
U2NMES01	Nové Město pod Smrkem		3516450	5643488	473	0.54	0.13	106.23	1067
U2VARN01	Varnsdorf		3472298	5642023	365	0.53	0.12	73.65	477