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Supplement of

Rain erosivity map for Germany derived from contiguous radar rain data

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Supplement

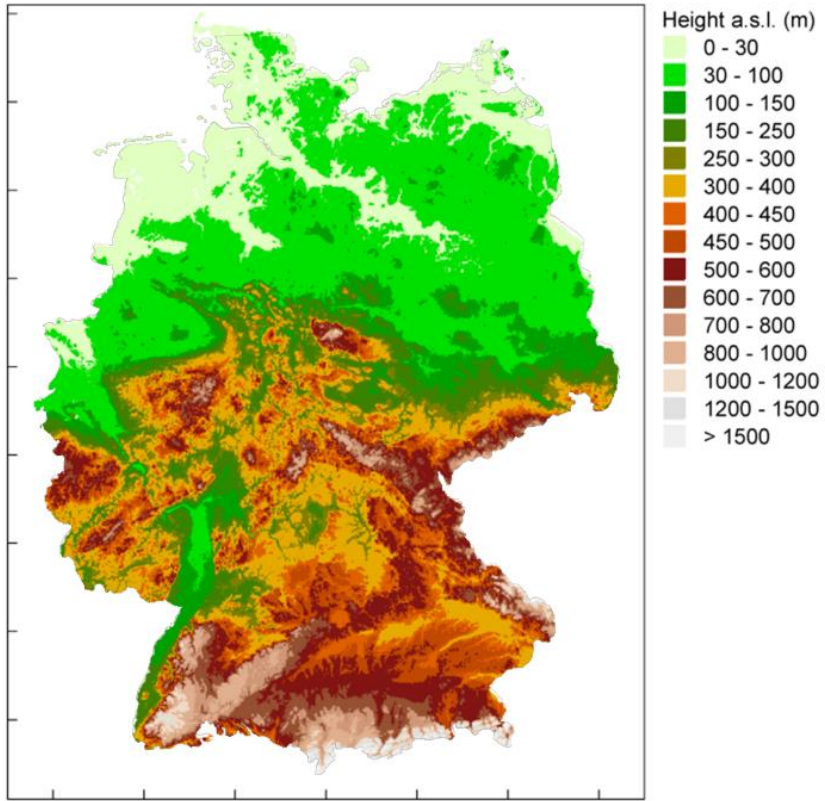


Figure S1: Topographic map of Germany. Axes ticks represent distances of 100 km. Data were taken from www.bkg.bund.de

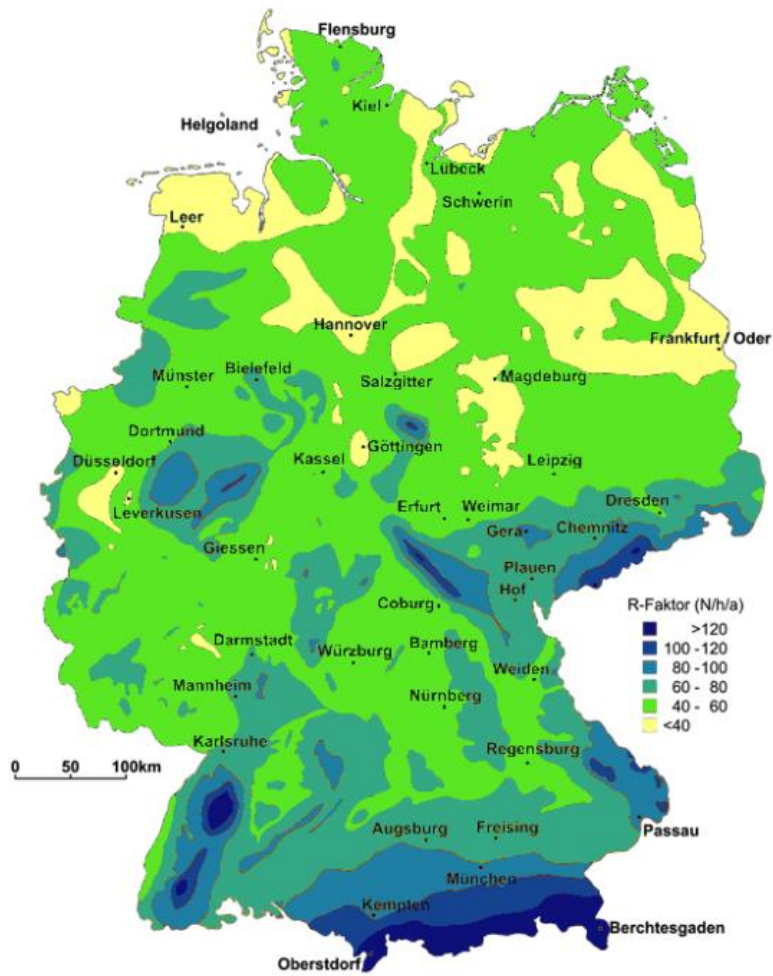


Figure S2: The Sauerborn (1994) *R*-factor map taken from Auerswald and von Perger (1998). For an easy comparison, colors were adjusted to match the present maps (i.e., an *R* factor class multiplied by 1.66 received the same color as in the present maps; the factor 1.66 accounts for the mean increase in *R* between the Sauerborn map and the present map).

Auerswald, K., v. Perger P.: Bodenerosion durch Wasser - Ursachen, Schutzmaßnahmen und Prognose mit PCABAG. AID-Heft 1378, Publisher AID, Bonn, 1998.

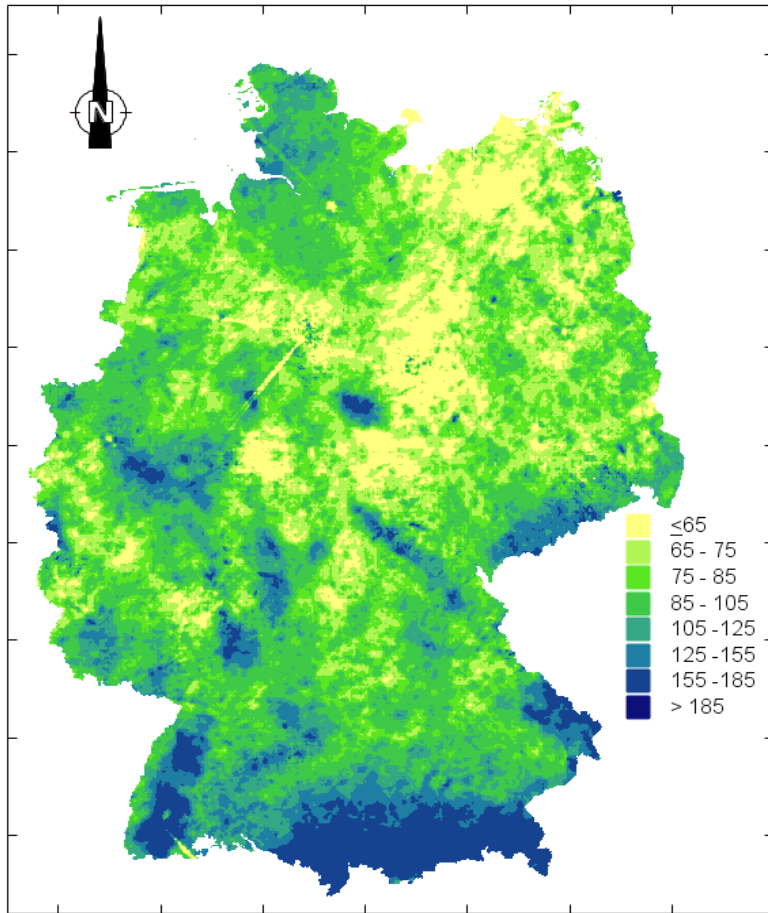


Figure S3: Annual average R -factor map ($\text{N h}^{-1} \text{ yr}^{-1}$) of Germany from 17 yr of radar rain data before statistical smoothing by winsorizing, removal of spokes and kriging. Axes ticks represent distances of 100 km.

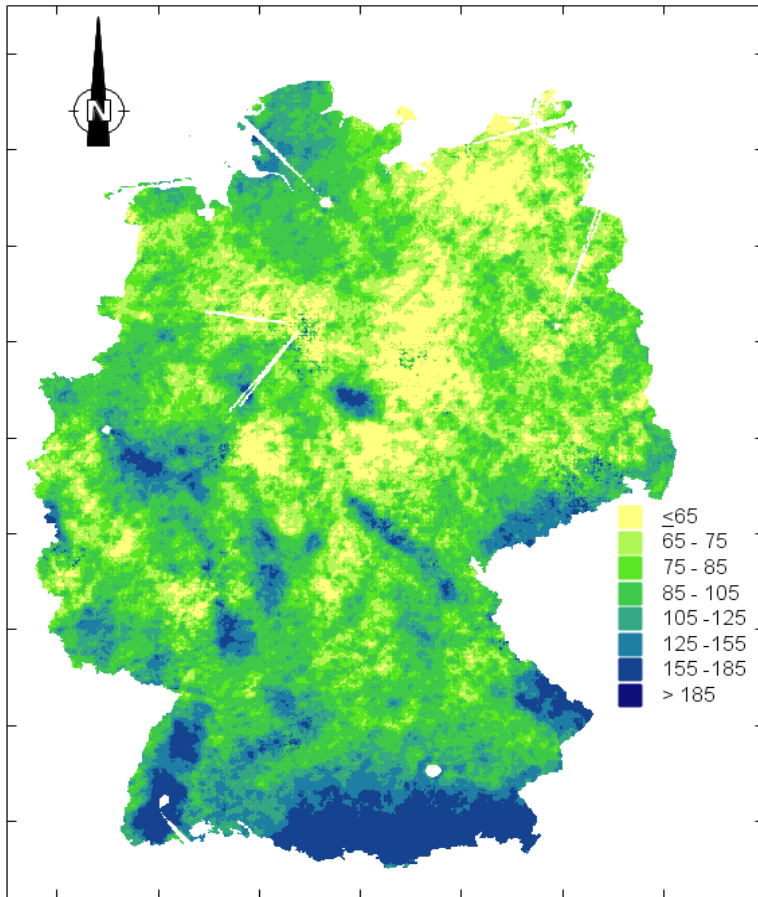


Figure S4: Annual average *R*-factor map ($N h^{-1} yr^{-1}$) of Germany from 17 yr of radar rain data after winsorizing and removal of data in spokes (white rays) but before kriging. Axes ticks represent distances of 100 km.

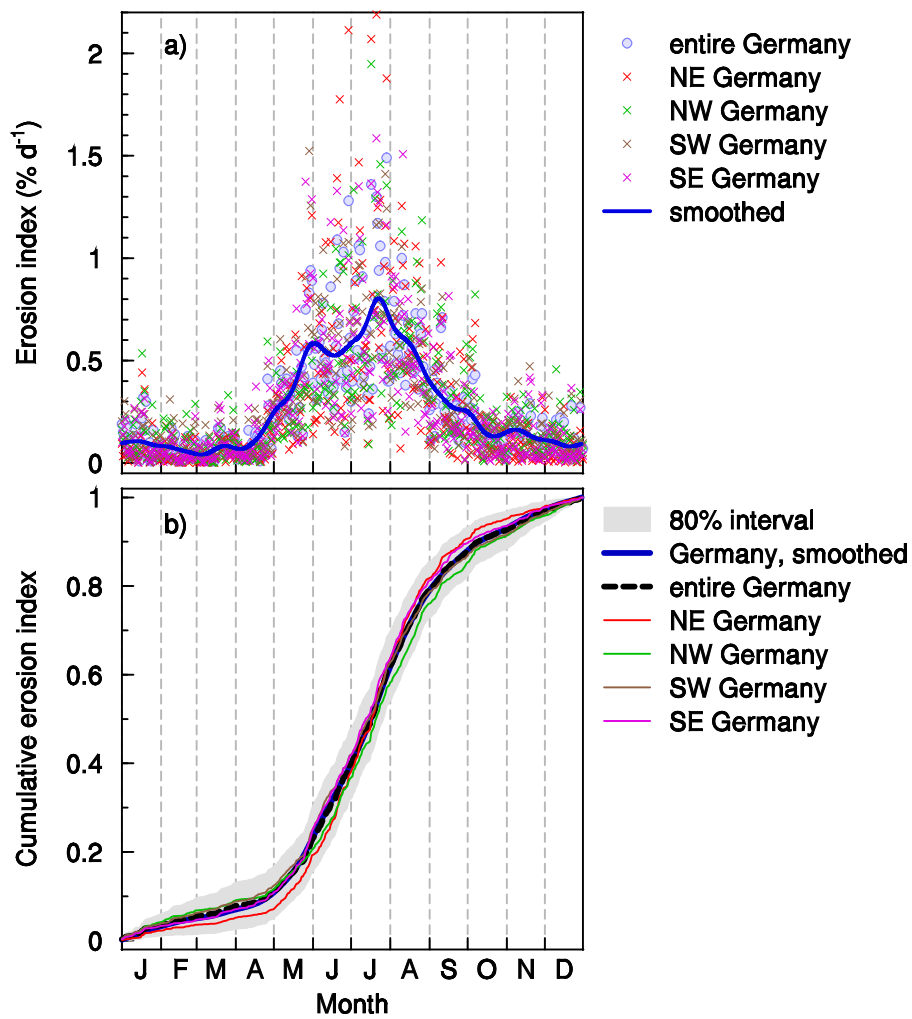


Figure S5: a) Measured (circles and crosses) and smoothed (solid blue line) daily erosion index from radar data. The crosses depict the values of the NE, NW, SW and SE quadrant of Germany. The NE quadrant is drier, more continental and at lower altitude than the German average; the NW quadrant has more maritime climate and is at lower altitude; the SE quadrant is wetter, more continental and at higher altitude; the SW quadrant is similar to average.

b) Cumulative distribution curves of measured daily erosion index for entire Germany and its four quadrants and smoothed erosion index for entire Germany.

Table S1. Mean erosivity ($N h^{-1} yr^{-1}$) of all German counties

County (Landkreis)	Identifier	Size (km ²)	Mean R ($N h^{-1} yr^{-1}$)
Ahrweiler	07131	789	74
Aichach-Friedberg	09771	780	110
Alb-Donau-Kreis	08425	1358	103
Altenburger Land	16077	570	91
Altenkirchen (Westerwald)	07132	643	100
Altmarkkreis Salzwedel	15081	2304	62
Altötting	09171	569	129
Alzey-Worms	07331	589	69
Amberg	09361	50	81
Amberg-Weizsach	09371	1255	92
Ammerland	03451	731	81
Anhalt-Bitterfeld	15082	1461	68
Ansbach	09561	100	81
Ansbach	09571	1973	81
Aschaffenburg	09661	62	99
Aschaffenburg	09671	700	119
Augsburg	09761	146	113
Augsburg	09772	1072	124
Aurich	03452	1298	85
Bad Dürkheim	07332	595	88
Bad Kissingen	09672	1138	85
Bad Kreuznach	07133	866	81
Bad Tölz-Wolfratshausen	09173	1112	257
Baden-Baden, Stadtkreis	08211	140	131
Bamberg	09461	55	75
Bamberg	09471	1167	86
Barnim	12060	1481	73
Bautzen	14625	2397	87
Bayreuth	09462	67	98
Bayreuth	09472	1274	108
Berchtesgadener Land	09172	840	250
Bergstraße	06431	720	121
Berlin, Stadt	11000	892	73
Bernkastel-Wittlich	07231	1173	89
Biberach	08426	1411	130
Bielefeld, Stadt	05711	259	94
Birkenfeld	07134	779	98
Böblingen	08115	618	96
Bochum, Stadt	05911	145	104
Bodenseekreis	08435	666	149
Bonn, Stadt	05314	142	94
Börde	15083	2377	58
Borken	05554	1426	94
Bottrop, Stadt	05512	101	110
Brandenburg an der Havel, Stadt	12051	229	79
Braunschweig, Stadt	03101	192	69
Breisgau-Hochschwarzwald	08315	1380	164
Bremen, Stadt	04011	326	78
Bremerhaven, Stadt	04012	94	86
Burgenlandkreis	15084	1419	77
Calw	08235	798	106
Celle	03351	1551	71
Cham	09372	1527	106

Table S1. Mean erosivity ($N h^{-1} yr^{-1}$) of all German counties (continued)

County (Landkreis)	Identifier	Size (km ²)	Mean R ($N h^{-1} yr^{-1}$)
Chemnitz, Stadt	14511	221	107
Cloppenburg	03453	1424	81
Coburg	09463	48	81
Coburg	09473	591	83
Cochem-Zell	07135	695	80
Coesfeld	05558	1115	93
Cottbus, Stadt	12052	165	74
Cuxhaven	03352	2062	100
Dachau	09174	580	115
Dahme-Spreewald	12061	2277	79
Darmstadt, Wissenschaftsstadt	06411	123	102
Darmstadt-Dieburg	06432	659	91
Deggendorf	09271	861	119
Delmenhorst, Stadt	03401	63	70
Dessau-Roßlau, Stadt	15001	246	65
Diepholz	03251	1993	70
Dillingen a.d.Donau	09773	792	95
Dingolfing-Landau	09279	877	91
Dithmarschen	01051	1444	122
Donau-Ries	09779	1275	88
Donnersbergkreis	07333	646	89
Dortmund, Stadt	05913	280	89
Dresden, Stadt	14612	328	97
Duisburg, Stadt	05112	234	87
Düren	05358	944	80
Düsseldorf, Stadt	05111	218	76
Ebersberg	09175	550	154
Eichsfeld	16061	943	68
Eichstätt	09176	1214	91
Eifelkreis Bitburg-Prüm	07232	1634	82
Eisenach, Stadt	16056	105	72
Elbe-Elster	12062	1901	75
Emden, Stadt	03402	112	73
Emmendingen	08316	682	153
Emsland	03454	2891	81
Ennepe-Ruhr-Kreis	05954	412	116
Enzkreis	08236	574	94
Erding	09177	871	114
Erfurt, Stadt	16051	270	75
Erlangen	09562	78	82
Erlangen-Höchstadt	09572	565	80
Erzgebirgskreis	14521	1827	137
Essen, Stadt	05113	211	114
Esslingen	08116	640	110
Euskirchen	05366	1255	82
Flensburg, Stadt	01001	57	109
Forchheim	09474	643	98
Frankenthal (Pfalz), kreisfreie Stadt	07311	44	80
Frankfurt (Oder), Stadt	12053	148	90
Frankfurt am Main, Stadt	06412	249	94
Freiburg im Breisgau, Stadtkreis	08311	155	139
Freising	09178	798	107
Freudenstadt	08237	873	160

Table S1. Mean erosivity ($\text{N h}^{-1} \text{yr}^{-1}$) of all German counties (continued)

County (Landkreis)	Identifier	Size (km^2)	Mean R ($\text{N h}^{-1} \text{yr}^{-1}$)
Freyung-Grafenau	09272	985	175
Friesland	03455	619	85
Fulda	06631	1382	86
Fürstenfeldbruck	09179	435	133
Fürth	09563	63	81
Fürth	09573	307	78
Garmisch-Partenkirchen	09180	1012	216
Gelsenkirchen, Stadt	05513	106	109
Gera, Stadt	16052	152	78
Germersheim	07334	464	90
Gießen	06531	857	88
Gifhorn	03151	1570	72
Göppingen	08117	643	119
Görlitz	14626	2113	97
Goslar	03153	969	123
Gotha	16067	936	82
Göttingen	03159	1756	92
Grafschaft Bentheim	03456	985	81
Greiz	16076	846	84
Groß-Gerau	06433	454	73
Günzburg	09774	764	112
Gütersloh	05754	971	80
Hagen, Stadt der FernUniversität	05914	161	105
Halle (Saale), Stadt	15002	136	78
Hamburg, Freie und Hansestadt	02000	753	88
Hamelnd-Pyrmont	03252	799	79
Hamm, Stadt	05915	228	78
Harburg	03353	1250	88
Harz	15085	2108	73
Haßberge	09674	957	83
Havelland	12063	1728	75
Heidekreis	03358	1883	80
Heidelberg, Stadtkreis	08221	109	124
Heidenheim	08135	628	100
Heilbronn	08125	1100	91
Heilbronn, Stadtkreis	08121	101	80
Heinsberg	05370	630	71
Helmstedt	03154	676	61
Herford	05758	451	90
Herne, Stadt	05916	52	105
Hersfeld-Rotenburg	06632	1099	77
Herzogtum Lauenburg	01053	1263	79
Hildburghausen	16069	938	90
Hildesheim	03254	1208	74
Hochsauerlandkreis	05958	1963	108
Hochtaunuskreis	06434	482	108
Hof	09464	58	87
Hof	09475	893	96
Hohenlohekreis	08126	778	98
Holzminde	03255	695	84
Höxter	05762	1202	80
Ilm-Kreis	16070	844	97
Ingolstadt	09161	134	91

Table S1. Mean erosivity ($N h^{-1} yr^{-1}$) of all German counties (continued)

County (Landkreis)	Identifier	Size (km ²)	Mean R ($N h^{-1} yr^{-1}$)
Jena, Stadt	16053	115	79
Jerichower Land	15086	1589	70
Kaiserslautern	07335	642	98
Kaiserslautern, kreisfreie Stadt	07312	141	101
Karlsruhe	08215	1086	91
Karlsruhe, Stadtkreis	08212	174	99
Kassel	06633	1296	70
Kassel, documenta-Stadt	06611	105	67
Kaufbeuren	09762	40	168
Kelheim	09273	1065	92
Kempten (Allgäu)	09763	63	222
Kiel, Landeshauptstadt	01002	120	92
Kitzingen	09675	684	81
Kleve	05154	1238	99
Koblenz, kreisfreie Stadt	07111	106	80
Köln, Stadt	05315	408	91
Konstanz	08335	819	121
Krefeld, Stadt	05114	137	83
Kronach	09476	652	107
Kulmbach	09477	658	100
Kusel	07336	575	101
Kyffhäuserkreis	16065	1038	61
Lahn-Dill-Kreis	06532	1067	103
Landau in der Pfalz, kreisfreie Stadt	07313	83	105
Landkreis Rostock	13072	3429	59
Landsberg am Lech	09181	804	156
Landshut	09261	66	106
Landshut	09274	1348	104
Leer	03457	1089	73
Leipzig	14729	1652	80
Leipzig, Stadt	14713	299	88
Leverkusen, Stadt	05316	79	98
Lichtenfels	09478	520	81
Limburg-Weilburg	06533	740	95
Lindau (Bodensee)	09776	323	307
Lippe	05766	1247	100
Lörrach	08336	809	183
Lübeck, Hansestadt	01003	212	76
Lüchow-Dannenberg	03354	1227	74
Ludwigsburg	08118	687	89
Ludwigshafen am Rhein, kreisfreie Stadt	07314	78	88
Ludwigslust-Parchim	13076	4768	72
Lüneburg	03355	1327	80
Magdeburg, Landeshauptstadt	15003	201	54
Main-Kinzig-Kreis	06435	1398	110
Main-Spessart	09677	1323	95
Main-Tauber-Kreis	08128	1306	94
Main-Taunus-Kreis	06436	222	102
Mainz, kreisfreie Stadt	07315	98	68
Mainz-Bingen	07339	607	69
Mannheim, Stadtkreis	08222	145	93
Mansfeld-Südharz	15087	1456	67
Marburg-Biedenkopf	06534	1264	83

Table S1. Mean erosivity ($N h^{-1} yr^{-1}$) of all German counties (continued)

County (Landkreis)	Identifier	Size (km ²)	Mean R ($N h^{-1} yr^{-1}$)
Märkischer Kreis	05962	1064	121
Märkisch-Oderland	12064	2159	81
Mayen-Koblenz	07137	819	70
Mecklenburgische Seenplatte	13071	5496	67
Meißen	14627	1458	77
Memmingen	09764	70	157
Merzig-Wadern	10042	559	108
Mettmann	05158	409	102
Miesbach	09182	867	281
Miltenberg	09676	716	105
Minden-Lübbecke	05770	1153	77
Mittelsachsen	14522	2115	103
Mönchengladbach, Stadt	05116	171	77
Mühdorf a.Inn	09183	805	111
Mülheim an der Ruhr, Stadt	05117	92	101
München	09184	664	161
München, Landeshauptstadt	09162	311	150
Münster, Stadt	05515	304	89
Neckar-Odenwald-Kreis	08225	1127	104
Neuburg-Schrobenhausen	09185	740	94
Neumarkt i.d.OPf.	09373	1345	93
Neumünster, Stadt	01004	71	100
Neunkirchen	10043	249	118
Neustadt a.d.Aisch-Bad Windsheim	09575	1268	82
Neustadt a.d.Waldnaab	09374	1428	89
Neustadt an der Weinstraße, kreisfreie Stadt	07316	118	92
Neu-Ulm	09775	516	121
Neuwied	07138	629	80
Nienburg (Weser)	03256	1403	67
Nordfriesland	01054	2090	101
Nordhausen	16062	714	63
Nordsachsen	14730	2028	73
Nordwestmecklenburg	13074	2125	69
Northeim	03155	1270	82
Nürnberg	09564	188	83
Nürnberger Land	09574	798	104
Oberallgäu	09780	1529	316
Oberbergischer Kreis	05374	920	144
Oberhausen, Stadt	05119	78	104
Oberhavel	12065	1808	71
Oberspreewald-Lausitz	12066	1224	75
Odenwaldkreis	06437	626	125
Oder-Spree	12067	2259	81
Offenbach	06438	357	83
Offenbach am Main, Stadt	06413	45	88
Oldenburg	03458	1067	73
Oldenburg (Oldenburg), Stadt	03403	104	79
Olpe	05966	713	124
Ortenaukreis	08317	1864	137
Osnabrück	03459	2125	83
Osnabrück, Stadt	03404	120	85
Ostalbkreis	08136	1511	106
Ostallgäu	09777	1394	215

Table S1. Mean erosivity ($N h^{-1} yr^{-1}$) of all German counties (continued)

County (Landkreis)	Identifier	Size (km ²)	Mean R ($N h^{-1} yr^{-1}$)
Osterholz	03356	654	85
Ostholstein	01055	1394	77
Ostprignitz-Ruppin	12068	2526	77
Paderborn	05774	1248	92
Passau	09262	70	111
Passau	09275	1530	121
Peine	03157	536	66
Pfaffenhofen a.d.Ilm	09186	761	101
Pforzheim, Stadtkreis	08231	98	89
Pinneberg	01056	664	98
Pirmasens, kreisfreie Stadt	07317	62	99
Plön	01057	1084	83
Potsdam, Stadt	12054	187	71
Potsdam-Mittelmark	12069	2593	78
Prignitz	12070	2139	70
Rastatt	08216	740	126
Ravensburg	08436	1633	178
Recklinghausen	05562	763	100
Regen	09276	975	164
Regensburg	09362	80	73
Regensburg	09375	1393	85
Region Hannover	03241	2299	71
Regionalverband Saarbrücken	10041	413	104
Remscheid, Stadt	05120	74	150
Rems-Murr-Kreis	08119	858	119
Rendsburg-Eckernförde	01058	2190	105
Reutlingen	08415	1093	120
Rhein-Erft-Kreis	05362	705	76
Rheingau-Taunus-Kreis	06439	814	88
Rhein-Hunsrück-Kreis	07140	994	84
Rheinisch-Bergischer Kreis	05378	439	120
Rhein-Kreis Neuss	05162	579	72
Rhein-Lahn-Kreis	07141	783	88
Rhein-Neckar-Kreis	08226	1062	114
Rhein-Pfalz-Kreis	07338	305	89
Rhein-Sieg-Kreis	05382	1155	97
Rhön-Grabfeld	09673	1022	75
Rosenheim	09163	36	195
Rosenheim	09187	1441	211
Rostock	13003	181	68
Rotenburg (Wümme)	03357	2075	93
Roth	09576	895	85
Rottal-Inn	09277	1281	103
Rottweil	08325	771	115
Saale-Holzland-Kreis	16074	816	85
Saalekreis	15088	1440	73
Saale-Orla-Kreis	16075	1152	85
Saalfeld-Rudolstadt	16073	1036	87
Saarlouis	10044	461	105
Saarpfalz-Kreis	10045	420	101
Sächsische Schweiz-Osterzgebirge	14628	1654	112
Salzgitter, Stadt	03102	225	74
Salzlandkreis	15089	1435	61

Table S1. Mean erosivity ($N h^{-1} yr^{-1}$) of all German counties (continued)

County (Landkreis)	Identifier	Size (km ²)	Mean R ($N h^{-1} yr^{-1}$)
Schaumburg	03257	677	82
Schleswig-Flensburg	01059	2072	107
Schmalkalden-Meiningen	16066	1211	85
Schwabach	09565	41	74
Schwäbisch Hall	08127	1485	95
Schwalm-Eder-Kreis	06634	1541	71
Schwandorf	09376	1458	81
Schwarzwald-Baar-Kreis	08326	1028	136
Schweinfurt	09662	36	68
Schweinfurt	09678	842	71
Schwerin	13004	130	65
Segeberg	01060	1346	93
Siegen-Wittgenstein	05970	1136	121
Sigmaringen	08437	1206	118
Soest	05974	1332	88
Solingen, Klingenstadt	05122	89	115
Sömmerda	16068	807	65
Sonneberg	16072	433	125
Speyer, kreisfreie Stadt	07318	43	89
Spree-Neiße	12071	1658	78
St. Wendel	10046	478	122
Stade	03359	1268	97
Städteregion Aachen	05334	707	106
Starnberg	09188	487	169
Steinburg	01061	1057	108
Steinfurt	05566	1800	96
Stendal	15090	2437	65
Stormarn	01062	766	88
Straubing	09263	67	90
Straubing-Bogen	09278	1201	104
Stuttgart, Stadtkreis	08111	210	92
Südliche Weinstraße	07337	641	104
Südwestpfalz	07340	957	110
Suhl, Stadt	16054	102	124
Teltow-Fläming	12072	2104	73
Tirschenreuth	09377	1085	96
Traunstein	09189	1533	232
Trier, kreisfreie Stadt	07211	116	77
Trier-Saarburg	07235	1109	93
Tübingen	08416	521	114
Tuttlingen	08327	735	124
Uckermark	12073	3077	74
Uelzen	03360	1463	79
Ulm, Stadtkreis	08421	119	94
Unna	05978	544	84
Unstrut-Hainich-Kreis	16064	979	63
Unterallgäu	09778	1230	162
Vechta	03460	815	73
Verden	03361	790	77
Viersen	05166	566	78
Vogelsbergkreis	06535	1460	95
Vogtlandkreis	14523	1412	102
Vorpommern-Greifswald	13075	3953	72

Table S1. Mean erosivity ($\text{N h}^{-1} \text{yr}^{-1}$) of all German counties (continued)

County (Landkreis)	Identifier	Size (km^2)	Mean R ($\text{N h}^{-1} \text{yr}^{-1}$)
Vorpommern-Rügen	13073	3213	66
Vulkaneifel	07233	915	88
Waldeck-Frankenberg	06635	1850	73
Waldshut	08337	1133	167
Warendorf	05570	1321	76
Wartburgkreis	16063	1307	76
Weiden i.d.OPf.	09363	71	92
Weilheim-Schongau	09190	968	214
Weimar, Stadt	16055	84	71
Weimarer Land	16071	804	74
Weißenburg-Gunzenhausen	09577	971	94
Werra-Meißner-Kreis	06636	1025	74
Wesel	05170	1046	93
Wesermarsch	03461	830	78
Westerwaldkreis	07143	992	100
Wetteraukreis	06440	1102	97
Wiesbaden, Landeshauptstadt	06414	204	79
Wilhelmshaven, Stadt	03405	108	95
Wittenberg	15091	1943	78
Wittmund	03462	661	97
Wolfenbüttel	03158	724	72
Wolfsburg, Stadt	03103	205	66
Worms, kreisfreie Stadt	07319	109	72
Wunsiedel i.Fichtelgebirge	09479	606	93
Wuppertal, Stadt	05124	169	129
Würzburg	09663	88	83
Würzburg	09679	968	85
Zollernalbkreis	08417	918	118
Zweibrücken, kreisfreie Stadt	07320	71	90
Zwickau	14524	950	102

Table S2. Daily erosion index

Date	Daily erosion (%)	Erosivity since Jan (%)	Date	Daily erosion (%)	Erosivity since Jan (%)	Date	Daily erosion (%)	Erosivity since Jan (%)	Date	Daily erosion (%)	Erosivity since Jan (%)
1 Jan	0.09	0.1	1 Feb	0.08	3.1	1 Mar	0.04	5.0	1 Apr	0.07	6.9
2 Jan	0.10	0.2	2 Feb	0.08	3.2	2 Mar	0.04	5.0	2 Apr	0.07	7.0
3 Jan	0.10	0.3	3 Feb	0.08	3.3	3 Mar	0.04	5.1	3 Apr	0.07	7.1
4 Jan	0.10	0.4	4 Feb	0.08	3.4	4 Mar	0.04	5.1	4 Apr	0.07	7.1
5 Jan	0.10	0.5	5 Feb	0.08	3.5	5 Mar	0.04	5.1	5 Apr	0.07	7.2
6 Jan	0.10	0.6	6 Feb	0.08	3.5	6 Mar	0.04	5.2	6 Apr	0.07	7.3
7 Jan	0.10	0.7	7 Feb	0.08	3.6	7 Mar	0.04	5.2	7 Apr	0.07	7.4
8 Jan	0.10	0.8	8 Feb	0.08	3.7	8 Mar	0.04	5.3	8 Apr	0.07	7.4
9 Jan	0.10	0.9	9 Feb	0.08	3.8	9 Mar	0.04	5.3	9 Apr	0.07	7.5
10 Jan	0.10	1.0	10 Feb	0.08	3.8	10 Mar	0.05	5.4	10 Apr	0.07	7.6
11 Jan	0.10	1.1	11 Feb	0.07	3.9	11 Mar	0.05	5.4	11 Apr	0.08	7.6
12 Jan	0.11	1.2	12 Feb	0.07	4.0	12 Mar	0.05	5.5	12 Apr	0.08	7.7
13 Jan	0.11	1.3	13 Feb	0.07	4.1	13 Mar	0.05	5.5	13 Apr	0.09	7.8
14 Jan	0.11	1.4	14 Feb	0.07	4.1	14 Mar	0.06	5.6	14 Apr	0.09	7.9
15 Jan	0.11	1.5	15 Feb	0.07	4.2	15 Mar	0.06	5.6	15 Apr	0.10	8.0
16 Jan	0.11	1.6	16 Feb	0.07	4.3	16 Mar	0.06	5.7	16 Apr	0.10	8.1
17 Jan	0.11	1.7	17 Feb	0.06	4.3	17 Mar	0.07	5.8	17 Apr	0.11	8.2
18 Jan	0.10	1.8	18 Feb	0.06	4.4	18 Mar	0.07	5.8	18 Apr	0.11	8.3
19 Jan	0.10	1.9	19 Feb	0.06	4.5	19 Mar	0.07	5.9	19 Apr	0.12	8.4
20 Jan	0.10	2.0	20 Feb	0.06	4.5	20 Mar	0.08	6.0	20 Apr	0.13	8.6
21 Jan	0.10	2.1	21 Feb	0.06	4.6	21 Mar	0.08	6.1	21 Apr	0.14	8.7
22 Jan	0.10	2.2	22 Feb	0.06	4.6	22 Mar	0.08	6.1	22 Apr	0.15	8.9
23 Jan	0.10	2.3	23 Feb	0.05	4.7	23 Mar	0.08	6.2	23 Apr	0.15	9.0
24 Jan	0.09	2.4	24 Feb	0.05	4.7	24 Mar	0.08	6.3	24 Apr	0.16	9.2
25 Jan	0.09	2.5	25 Feb	0.05	4.8	25 Mar	0.08	6.4	25 Apr	0.17	9.3
26 Jan	0.09	2.6	26 Feb	0.05	4.8	26 Mar	0.08	6.5	26 Apr	0.18	9.5
27 Jan	0.09	2.7	27 Feb	0.05	4.9	27 Mar	0.08	6.6	27 Apr	0.20	9.7
28 Jan	0.09	2.8	28 Feb	0.05	4.9	28 Mar	0.08	6.6	28 Apr	0.21	9.9
29 Jan	0.09	2.9				29 Mar	0.08	6.7	29 Apr	0.22	10.2
30 Jan	0.08	3.0				30 Mar	0.08	6.8	30 Apr	0.23	10.4
31 Jan	0.08	3.0				31 Mar	0.07	6.9			

Table S2. Daily erosion index (continued)

Date	Daily erosi- vity (%)	Erosi- vity since Jan (%) ¹	Date	Daily erosi- vity (%)	Erosi- vity since Jan (%) ¹	Date	Daily erosi- vity (%)	Erosi- vity since Jan (%) ¹	Date	Daily erosi- vity (%)	Erosi- vity since Jan (%) ¹
1 May	0.24	10.6	1 Jun	0.58	22.8	1 Jul	0.58	39.3	1 Aug	0.71	61.1
2 May	0.25	10.9	2 Jun	0.58	23.4	2 Jul	0.58	39.9	2 Aug	0.70	61.8
3 May	0.26	11.1	3 Jun	0.58	24.0	3 Jul	0.59	40.5	3 Aug	0.68	62.5
4 May	0.26	11.4	4 Jun	0.58	24.5	4 Jul	0.59	41.1	4 Aug	0.67	63.2
5 May	0.27	11.7	5 Jun	0.58	25.1	5 Jul	0.60	41.7	5 Aug	0.66	63.8
6 May	0.28	11.9	6 Jun	0.58	25.7	6 Jul	0.60	42.3	6 Aug	0.65	64.5
7 May	0.28	12.2	7 Jun	0.57	26.3	7 Jul	0.61	42.9	7 Aug	0.64	65.1
8 May	0.29	12.5	8 Jun	0.57	26.8	8 Jul	0.61	43.5	8 Aug	0.63	65.8
9 May	0.29	12.8	9 Jun	0.56	27.4	9 Jul	0.62	44.1	9 Aug	0.63	66.4
10 May	0.30	13.1	10 Jun	0.55	27.9	10 Jul	0.63	44.8	10 Aug	0.62	67.0
11 May	0.30	13.4	11 Jun	0.55	28.5	11 Jul	0.64	45.4	11 Aug	0.62	67.6
12 May	0.31	13.7	12 Jun	0.54	29.0	12 Jul	0.65	46.1	12 Aug	0.61	68.2
13 May	0.32	14.0	13 Jun	0.54	29.6	13 Jul	0.67	46.7	13 Aug	0.61	68.9
14 May	0.33	14.4	14 Jun	0.53	30.1	14 Jul	0.68	47.4	14 Aug	0.60	69.5
15 May	0.34	14.7	15 Jun	0.53	30.6	15 Jul	0.70	48.1	15 Aug	0.60	70.1
16 May	0.35	15.0	16 Jun	0.53	31.2	16 Jul	0.71	48.8	16 Aug	0.59	70.6
17 May	0.36	15.4	17 Jun	0.53	31.7	17 Jul	0.73	49.5	17 Aug	0.59	71.2
18 May	0.37	15.8	18 Jun	0.52	32.2	18 Jul	0.75	50.3	18 Aug	0.58	71.8
19 May	0.39	16.2	19 Jun	0.52	32.7	19 Jul	0.76	51.1	19 Aug	0.57	72.4
20 May	0.41	16.6	20 Jun	0.52	33.3	20 Jul	0.78	51.8	20 Aug	0.56	72.9
21 May	0.43	17.0	21 Jun	0.53	33.8	21 Jul	0.79	52.6	21 Aug	0.55	73.5
22 May	0.45	17.4	22 Jun	0.53	34.3	22 Jul	0.80	53.4	22 Aug	0.54	74.0
23 May	0.47	17.9	23 Jun	0.53	34.9	23 Jul	0.80	54.2	23 Aug	0.52	74.5
24 May	0.48	18.4	24 Jun	0.54	35.4	24 Jul	0.80	55.0	24 Aug	0.51	75.1
25 May	0.50	18.9	25 Jun	0.54	35.9	25 Jul	0.80	55.8	25 Aug	0.50	75.6
26 May	0.52	19.4	26 Jun	0.55	36.5	26 Jul	0.79	56.6	26 Aug	0.48	76.0
27 May	0.53	19.9	27 Jun	0.55	37.0	27 Jul	0.79	57.4	27 Aug	0.47	76.5
28 May	0.55	20.5	28 Jun	0.56	37.6	28 Jul	0.77	58.2	28 Aug	0.46	77.0
29 May	0.56	21.1	29 Jun	0.57	38.2	29 Jul	0.76	58.9	29 Aug	0.44	77.4
30 May	0.57	21.6	30 Jun	0.57	38.7	30 Jul	0.74	59.7	30 Aug	0.43	77.8
31 May	0.58	22.2				31 Jul	0.73	60.4	31 Aug	0.42	78.3

Table S2. Daily erosion index (continued)

Date	Daily erosi- vity (%)	Erosi- vity since Jan (%) ¹	Date	Daily erosi- vity (%)	Erosi- vity since Jan (%) ¹	Date	Daily erosi- vity (%)	Erosi- vity since Jan (%) ¹	Date	Daily erosi- vity (%)	Erosi- vity since Jan (%) ¹
1 Sep	0.41	78.7	1 Oct	0.25	87.8	1 Nov	0.15	93.0	1 Dec	0.11	97.2
2 Sep	0.40	79.1	2 Oct	0.25	88.0	2 Nov	0.15	93.1	2 Dec	0.11	97.3
3 Sep	0.39	79.4	3 Oct	0.25	88.3	3 Nov	0.15	93.3	3 Dec	0.11	97.4
4 Sep	0.38	79.8	4 Oct	0.24	88.5	4 Nov	0.16	93.4	4 Dec	0.11	97.5
5 Sep	0.37	80.2	5 Oct	0.23	88.8	5 Nov	0.16	93.6	5 Dec	0.11	97.6
6 Sep	0.36	80.6	6 Oct	0.23	89.0	6 Nov	0.16	93.7	6 Dec	0.11	97.7
7 Sep	0.35	80.9	7 Oct	0.22	89.2	7 Nov	0.16	93.9	7 Dec	0.11	97.9
8 Sep	0.35	81.3	8 Oct	0.21	89.4	8 Nov	0.16	94.1	8 Dec	0.11	98.0
9 Sep	0.34	81.6	9 Oct	0.20	89.6	9 Nov	0.16	94.2	9 Dec	0.10	98.1
10 Sep	0.33	81.9	10 Oct	0.19	89.8	10 Nov	0.16	94.4	10 Dec	0.10	98.2
11 Sep	0.33	82.3	11 Oct	0.18	90.0	11 Nov	0.16	94.5	11 Dec	0.10	98.3
12 Sep	0.32	82.6	12 Oct	0.17	90.2	12 Nov	0.16	94.7	12 Dec	0.10	98.4
13 Sep	0.31	82.9	13 Oct	0.17	90.3	13 Nov	0.16	94.9	13 Dec	0.09	98.5
14 Sep	0.31	83.2	14 Oct	0.16	90.5	14 Nov	0.15	95.0	14 Dec	0.09	98.6
15 Sep	0.30	83.5	15 Oct	0.15	90.6	15 Nov	0.15	95.2	15 Dec	0.09	98.6
16 Sep	0.29	83.8	16 Oct	0.15	90.8	16 Nov	0.15	95.3	16 Dec	0.09	98.7
17 Sep	0.29	84.1	17 Oct	0.14	90.9	17 Nov	0.15	95.5	17 Dec	0.09	98.8
18 Sep	0.28	84.4	18 Oct	0.14	91.1	18 Nov	0.14	95.6	18 Dec	0.08	98.9
19 Sep	0.28	84.6	19 Oct	0.13	91.2	19 Nov	0.14	95.7	19 Dec	0.08	99.0
20 Sep	0.27	84.9	20 Oct	0.13	91.3	20 Nov	0.13	95.9	20 Dec	0.08	99.1
21 Sep	0.27	85.2	21 Oct	0.13	91.5	21 Nov	0.13	96.0	21 Dec	0.08	99.1
22 Sep	0.27	85.4	22 Oct	0.13	91.6	22 Nov	0.13	96.1	22 Dec	0.08	99.2
23 Sep	0.26	85.7	23 Oct	0.13	91.7	23 Nov	0.13	96.3	23 Dec	0.08	99.3
24 Sep	0.26	86.0	24 Oct	0.13	91.9	24 Nov	0.12	96.4	24 Dec	0.08	99.4
25 Sep	0.26	86.2	25 Oct	0.13	92.0	25 Nov	0.12	96.5	25 Dec	0.08	99.5
26 Sep	0.26	86.5	26 Oct	0.13	92.1	26 Nov	0.12	96.6	26 Dec	0.08	99.6
27 Sep	0.26	86.8	27 Oct	0.13	92.2	27 Nov	0.12	96.7	27 Dec	0.09	99.6
28 Sep	0.26	87.0	28 Oct	0.14	92.4	28 Nov	0.12	96.9	28 Dec	0.09	99.7
29 Sep	0.26	87.3	29 Oct	0.14	92.5	29 Nov	0.11	97.0	29 Dec	0.09	99.8
30 Sep	0.26	87.5	30 Oct	0.14	92.7	30 Nov	0.11	97.1	30 Dec	0.09	99.9
			31 Oct	0.14	92.8				31 Dec	0.09	100.0