Table S1. List of stations with their UTM coordinates (in m), and the 24-hour rainfall amounts (in mm) for various return periods T, and scaling parameter β.

Station code	UTM X	UTM Y	T (years)					β
			2	20	100	200	500	
AC010	354383	4572742	58.1	109.8	164.2	195.1	245	–0.77
AD004	388277	4714714	62.2	115.2	159.9	182.3	215.5	–0.73
AE010	505932	4678988	72.8	214.5	337.3	397.3	484.0	–0.76
AE024	486183	4690380	102.4	210.6	279.6	309.3	348.9	–0.82
AE041	497272	4679572	62.7	180.3	291.8	349.4	435.4	–0.80
AE052	523076	4682161	83.0	195.3	295.7	347.7	426.5	–0.86
AG003	307089	4753715	61.8	104.7	134.6	148.1	166.6	–0.67
AN004	398259	4603715	70.7	128.2	166.9	184.1	207.5	–0.85
AN007	376541	4621109	53.6	89.0	111.1	120.6	133.0	–0.75
AN027	375737	4597277	69.7	131.8	157.8	166.0	174.9	–0.78
AP011	391295	4577663	64.1	110.2	139.0	151.3	167.5	–0.80
AP023	405213	4587360	82.4	159.8	224.0	255.9	302.8	–0.79
AP024	387150	4568030	64.0	113.7	145.2	158.8	176.7	–0.74
AP027	384319	4575694	80.8	135.2	169.2	183.8	202.9	–0.84
AR001	313991	4712747	74.4	124.0	158.8	174.6	196.4	–0.72
AR002	311508	4702924	68.9	143.7	254.8	332.7	480.1	–0.78
AR004	322386	4712379	68.6	111.2	145.7	162.7	187.4	–0.71
AR008	320134	4708355	73.7	129.6	177.3	201.5	237.6	–0.75
AR014	313967	4696969	66.9	120.7	168.0	192.4	229.1	–0.73
AU013	367796	4686950	54.1	99.9	132.9	148.2	169.4	–0.79
AU022	362302	4674780	64.8	123.6	165.2	184.1	210.2	–0.80
AU024	359629	4660265	59.0	100.9	131.4	145.6	165.5	–0.74
BA007	409005	4628041	53.3	117.9	188.3	226.9	286.8	–0.85
BA053	403253	4605397	69.6	134.0	203.2	242.9	307.6	–0.78
BB003	307471	4526340	82.5	168.7	232.7	262.7	305.0	–0.76
BB006	314541	4528011	98.1	210.3	283.1	314.8	357.2	–0.81
BB017	288608	4521819	77.1	167.4	256.7	305.7	383.0	–0.84
BC011	332587	4554125	69.2	132.9	184.4	209.6	246.3	–0.83
BC013	336501	4548704	71.1	142.6	197.5	223.7	261.2	–0.82
BC015	330331	4563975	75.3	201.7	309.9	358.4	423.7	–0.85
BC023	345491	4556454	66.9	119.0	151.5	165.5	183.8	–0.79
BC026	341333	4557610	71.7	129.3	165.3	180.7	201.0	–0.79
BE004	496877	4629205	85.4	197.0	292.5	339.7	408.2	–0.80
BE016	513318	4640267	77.9	168.1	239.6	274.5	324.8	–0.79
BE019	516500	4636719	79.3	153.2	199.5	219.2	245.3	–0.79
BE031	503504	4646201	74.4	135.1	189.9	218.4	261.8	–0.77
BE039	499907	4657055	75.5	138.8	178.4	195.3	217.6	–0.78
BE047	510730	4654390	75.8	147.0	198.7	222.7	256.2	–0.71
BE050	516672	4655775	70.6	160.7	247.9	295.2	369.1	–0.75
BG011	405648	4669470	81.1	140.8	178.3	194.2	215.3	–0.81

Station code	UTM X	UTM Y	T (years)					β
			2	**20**	**100**	**200**	**500**	
BG017	404424	4661711	77.7	135.4	177.2	196.6	223.6	–0.75
BG028	407172	4645817	59.7	110.3	155.2	178.4	213.4	–0.78
BL006	416259	4573096	75.1	161.4	254.3	307.7	394.8	–0.84
BL009	422668	4572008	67.3	158.0	243.6	289.4	360.3	–0.80
BL021	405663	4599382	74.6	134.2	171.5	187.5	208.5	–0.82
BL045	423446	4581839	68.4	122.3	156.1	170.5	189.5	–0.74
BL047	421553	4578589	71.1	193.3	285.7	326.2	380.1	–0.74
BN007	426770	4585408	70.2	139.5	194.0	220.5	258.6	–0.75
BN022	427507	4581733	67.6	121.7	159.4	176.4	199.9	–0.82
BN032	429434	4584581	70.0	141.5	186.3	205.4	230.6	–0.75
BN060	436912	4589080	68.9	177.2	281.4	335.5	416.7	–0.87
CB003	335962	4582033	73.5	201.5	330.3	399.1	504.9	–0.85
CB011	346353	4582058	62.0	122.0	176.1	204.4	247.3	–0.82
CB015	356457	4593220	53.6	103.7	147.8	170.5	204.6	–0.78
CB017	353598	4589634	53.7	86.7	107.4	116.2	127.8	–0.79
CB022	364881	4598753	56.7	84.2	101.4	108.8	118.5	–0.74
CE002	416297	4701912	48.5	85.0	107.9	117.7	130.6	–0.75
CE010	412370	4687275	97.1	168	212.3	231.3	256.3	–0.75
ES021	219821	4518836	47.7	90.2	130.0	151.2	184.0	–0.81
ES029	232502	4550486	52.3	97.3	125.5	137.5	153.4	–0.85
ES033	232026	4605141	44.6	81.1	104.0	113.7	126.6	–0.79
ES036	270662	4588122	56.6	98.0	123.9	135.0	149.5	–0.84
ES048	276081	4728627	77.7	151.8	213.9	245.1	291.2	–0.81
ES057	271913	4718263	78.3	133.7	170.3	186.3	208.0	–0.65
ES069	269342	4688764	63.9	117.6	160.5	181.4	211.7	–0.77
ES073	271164	4670115	56.3	112.7	171.5	204.6	258.0	–0.81
ES077	292099	4712690	73.5	136.1	189.9	217.1	257.8	–0.68
ES080	281858	4678545	51.9	89.3	112.8	122.8	136.0	–0.73
ES102	250656	4649623	48.8	90.2	120.2	134.1	153.5	–0.78
ES103	251387	4637552	47.0	98.3	151.7	181.8	230.2	–0.89
ES113	278715	4642549	48.0	91.2	124.0	139.6	161.8	–0.78
ES115	275750	4637763	44.0	83.4	112.7	126.4	145.8	–0.81
ES121	262460	4523549	76.2	206.7	317.9	371.7	448.9	–0.85
GA002	329756	4596456	46.2	80.4	101.8	111.0	123.1	–0.83
GA004	327211	4600767	43.9	77.4	101.3	112.3	127.5	–0.82
GA011	318679	4601733	42.4	82.4	112.7	127.1	147.5	–0.86
GA013	313495	4596560	43.9	71.5	88.8	96.2	105.9	–0.78
GA017	325504	4581506	61.8	115.8	149.7	164.1	183.2	–0.84
GA027	304676	4580803	50.5	85.1	106.7	115.9	128.1	–0.78
GF001	386684	4561776	64.1	111.3	140.8	153.4	170.0	–0.74
GI012	488849	4640410	82.7	165.7	225.2	252.6	290.6	–0.73
GI017	484094	4646587	75.4	144.1	195.7	220.0	254.4	–0.79
GX009	453974	4664702	89.0	163.7	210.5	230.5	256.9	–0.81
GX021	462603	4674424	101.2	207.2	293.8	336.6	399.1	–0.79
GX030	478148	4671814	96.0	182.6	236.9	260.0	290.6	–0.83

Station code	UTM X	UTM Y	T (years)					β
			2	**20**	**100**	**200**	**500**	
MA005	441479	4594377	67.4	127.5	176.6	200.9	236.4	–0.79
MA009	443857	4592637	63.1	130.0	189.4	220.2	266.7	–0.81
MA015	444632	4594353	69.2	163.6	265.0	323.2	418.1	–0.81
MA026	449938	4600482	75.7	153.2	223.2	259.8	315.5	–0.78
MA042	460686	4608803	75.1	136.5	176.9	194.6	218.5	–0.78
MA048	462197	4603598	65.9	114.7	152.3	170.4	196.2	–0.78
MA059	476330	4616384	77.8	143.1	184.6	202.5	226.3	–0.81
MI006	424859	4629439	70.9	127.9	166.2	183.2	206.3	–0.76
MO014	285989	4503709	105.3	217.1	287.0	316.8	356.2	–0.78
MO016	288424	4510011	83.9	174.2	241.5	273.1	317.8	–0.78
MO018	295124	4508163	85.7	160.0	206.6	226.5	252.7	–0.80
NO002	337848	4640027	48.5	96.7	144.7	171.1	212.9	–0.80
NO011	320300	4635739	49.4	86.0	109.0	118.8	131.8	–0.75
NO024	327637	4621997	44.4	80.7	105.1	115.9	130.6	–0.77
OS005	419397	4651026	58.8	95.9	124.2	138.1	158.7	–0.74
OS009	438364	4633823	66.7	136.5	200.9	235.0	287.2	–0.80
OS016	434406	4664455	76.6	142.0	191.0	214.2	246.9	–0.78
OS017	438630	4664055	71.2	125.9	180.7	210.9	258.9	–0.72
OS023	437113	4657362	63.0	103.5	137.2	154.6	181.1	–0.74
OS026	438341	4655073	58.5	98.7	140.0	163.9	203.2	–0.78
OS041	440861	4635605	71.5	122.8	167.0	189.5	223.0	–0.79
OS055	439029	4645148	65.0	115.6	154.7	173.5	200.3	–0.82
OS060	453358	4638720	93.0	170.5	224.7	249.2	283.0	–0.82
PE008	481048	4666347	93.0	169.1	216.8	237.2	264.0	–0.81
PJ003	335876	4708096	79.8	170.3	230.5	256.1	289.8	–0.72
PJ006	333294	4696777	64.6	105.1	132.9	145.3	162.4	–0.69
PJ015	332759	4679579	56.0	90.1	112.9	123.0	136.6	–0.73
PJ017	327167	4671155	50.6	92.8	124.0	138.6	159.2	–0.73
PJ024	342954	4669908	60.8	108.3	138.1	150.8	167.6	–0.74
PJ026	326312	4663610	53.2	101.3	145.4	168.6	204.0	–0.79
PJ029	325758	4657087	65.6	117.5	155.0	172.3	196.4	–0.75
PR011	310237	4568904	65.1	136.4	198.9	230.9	279.1	–0.82
PS006	346296	4721003	54.6	102.4	142.0	161.8	190.9	–0.81
PS009	336496	4716178	77.2	140.4	180.0	196.8	219.1	–0.67
PS014	357323	4722967	52.7	97.1	124.9	136.7	152.4	–0.77
PS018	353107	4706430	52.0	101.4	166.6	208.5	282.8	–0.77
PS025	340378	4692866	58.3	92.0	113.1	122.1	134.0	–0.72
PU007	322273	4609458	41.8	82.2	117.6	135.7	162.9	–0.84
RE001	289245	4569650	56.7	98.6	128.5	142.1	161.0	–0.79
RE005	294495	4567016	59.7	105.9	134.7	147.1	163.3	–0.81
RE006	304623	4572854	50.5	111.1	173.8	209.0	265.4	–0.84
RE023	301215	4547698	61.9	139.5	216.4	259.9	330.3	–0.84
RE029	297937	4541725	75.9	178.0	272.4	322.3	398.9	–0.83
RE031	298143	4546014	64.3	151.9	256.5	320.1	428.2	–0.82
RI006	443608	4686892	92.1	221.6	309.3	346.7	396.2	–0.75

Station code	UTM X	UTM Y	T (years)					β
			2	**20**	**100**	**200**	**500**	
RI023	431570	4684625	89.9	149.3	186.8	202.9	224.2	–0.77
RI025	431279	4674834	69.1	127.9	177.7	202.8	240.0	–0.75
SE007	302854	4620647	42.9	72.0	90.2	98.0	108.2	–0.79
SE020	299600	4611106	41.2	71.6	90.6	98.7	109.4	–0.80
SE031	290419	4583961	47.3	79.6	99.8	108.4	119.8	–0.83
SE039	292487	4595611	49.7	89.9	115.0	125.7	139.9	–0.81
SE044	291296	4618046	40.2	73.1	93.6	102.4	113.9	–0.77
SG001	367305	4630258	50.7	90.5	119.2	132.4	150.8	–0.78
SG006	356775	4626280	47.2	80.8	101.8	110.8	122.7	–0.75
SO005	384044	4644945	55.4	99.3	129.3	142.7	161.0	–0.75
SO011	389554	4655091	65.4	112.8	143.1	156.2	173.5	–0.77
SV002	463530	4622461	72.4	154.8	244.4	296.3	381.2	–0.80
SV018	472161	4634641	75.3	154.0	224.1	260.4	315.3	–0.78
SV035	467155	4651035	86.0	162.9	211.2	231.8	259.1	–0.81
SV048	480022	4638732	65.7	150.3	234.3	278.5	345.4	–0.76
TA011	282449	4555323	63.0	110.6	140.4	153.1	169.9	–0.79
TA013	288766	4560189	49.4	81.6	101.8	110.4	121.8	–0.74
TG001	344301	4552210	69.3	121.1	153.5	167.3	185.6	–0.78
UG004	341843	4627918	45.9	84.1	111.1	123.4	140.3	–0.81
UG013	344942	4612344	41.5	75.3	97.2	106.6	119.3	–0.79
UG017	338980	4614881	41.4	72.1	99.1	113.0	134.0	–0.79
UG019	345288	4596651	52.3	94.3	125.6	140.3	161.1	–0.81
UG020	345106	4602513	46.2	79.6	105.0	117.1	134.4	–0.78
VA010	319631	4730870	56.3	91.3	118.8	132.1	151.2	–0.69
VC010	418244	4602501	75.9	154.0	225.8	263.6	321.5	–0.80
VC017	419282	4593462	69.4	132.9	172.7	189.7	212.0	–0.81
VC022	424979	4599185	68.4	134.7	197.2	230.7	282.4	–0.78
VR030	446649	4609404	76.0	133.6	172.0	188.9	211.8	–0.76
VR040	436062	4611078	67.6	138.8	194.5	221.3	259.8	–0.80
VR051	436337	4597634	72.1	135.0	176.2	194.2	218.4	–0.79
VR057	430713	4607107	65.5	114.3	153.5	172.7	200.6	–0.79
VR063	453055	4625105	114.0	213.4	275.6	302.2	337.3	–0.74
VR078	453777	4615951	68.3	132.9	193.3	225.4	274.9	–0.78