Table C 6.3.35 Result of Frequency Analysis of 6-Month Rainfall (26)

Station code 70151

6months rainfall series (number of sumple N=42)

	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.962	0.985	0.981	0.987	—	0.987	0.986	0.987	0.979	0.987	—	—
P-COR(99%)	0.975	0.992	0.992	0.992	—	0.991	0.990	0.991	0.993	0.991	—	—
SLSC(99%)	0.056	0.034	0.037	0.033	—	0.034	0.038	0.036	0.034	0.036	—	—
log likelihood	-271.400	-280.800	-280.600	-280.900	—	-280.700	-281.200	-280.900	-280.200	-280.900	—	—
pAIC	546.800	565.500	565.300	567.800	—	567.400	568.400	567.800	566.400	567.800	—	—
X-COR(50%)	0.958	0.965	0.962	0.966	—	0.987	0.968	0.967	0.961	0.967	—	—
P-COR(50%)	0.958	0.956	0.953	0.958	—	0.991	0.958	0.958	0.955	0.958	—	—
SLSC(50%)	0.088	0.064	0.072	0.061	—	0.068	0.071	0.069	0.080	0.069	—	—

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	1,072	1,108	1,101	1,114	—	1,114	1,124	1,118	1,096	1,118	—	—
	1/3	1,167	1,200	1,190	1,206	—	1,204	1,213	1,208	1,188	1,209	—	—
	1/5	1,288	1,301	1,293	1,306	—	1,302	1,306	1,304	1,296	1,305	—	—
	1/10	1,451	1,428	1,428	1,428	—	1,421	1,414	1,419	1,438	1,419	—	—
	1/20	1,614	1,551	1,563	1,542	—	1,534	1,512	1,525	1,581	1,524	—	—
	1/30	1,710	1,621	1,643	1,606	—	1,599	1,565	1,584	1,666	1,583	—	—
	1/50	1,830	1,709	1,747	1,684	—	1,679	1,631	1,656	1,776	1,654	—	—
	1/80	1,941	1,790	1,844	1,754	—	1,752	1,689	1,722	1,880	1,719	—	—
	1/100	1,993	1,828	1,891	1,787	—	1,787	1,716	1,752	1,930	1,749	—	—
	1/150	2,089	1,897	1,977	1,846	—	1,850	1,764	1,807	2,022	1,804	—	—
	1/200	2,157	1,946	2,039	1,887	—	1,895	1,798	1,846	2,090	1,842	—	—
	1/300	2,252	2,015	2,129	1,943	—	1,959	1,845	1,901	2,186	1,896	—	—
	1/400	2,320	2,064	2,193	1,983	—	2,004	1,878	1,939	2,256	1,934	—	—
	1/500	2,372	2,102	2,244	2,014	—	2,040	1,903	1,969	2,312	1,963	—	—
	1/700	2,452	2,159	2,321	2,059	—	2,093	1,941	2,013	2,396	2,007	—	—
	1/1000	2,536	2,220	2,405	2,106	—	2,151	1,981	2,061	2,488	2,053	—	—
jackknife	1/2	29	30	31	40	—	36	39	37	30	37	—	—
error estimates	1/3	34	36	38	46	—	41	44	41	34	41	—	—
	1/5	43	44	48	49	—	46	48	46	46	46	—	—
	1/10	57	55	63	55	—	56	52	57	75	57	—	—
	1/20	73	66	78	70	—	71	59	74	116	74	—	—
	1/30	82	73	88	83	—	82	64	87	145	86	—	—
	1/50	94	82	100	107	—	100	72	106	185	105	—	—
	1/80	105	90	112	133	—	118	82	125	226	123	—	—
	1/100	111	94	118	147	—	127	87	135	247	133	—	—
	1/150	120	101	129	175	—	146	96	154	288	151	—	—
	1/200	127	106	137	196	—	160	104	168	318	164	—	—
	1/300	137	113	149	229	—	181	115	188	363	184	—	—
	1/400	144	118	157	253	—	197	124	203	396	199	—	—
	1/500	150	122	164	273	—	210	131	216	423	211	—	—
	1/700	158	128	174	304	—	230	141	234	465	229	—	—
	1/1000	167	134	185	339	—	253	153	255	512	249	—	—

less than 0.04(SLSC)
minimum value(SLSC)

Station code 73032

6months rainfall series (number of sumple N=50)

	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.959	0.993	0.986	0.997	0.997	—	0.997	0.997	0.997	0.997	0.997	0.997
P-COR(99%)	0.911	0.997	0.995	0.998	0.997	—	0.998	0.998	0.998	0.998	0.998	0.998
SLSC(99%)	0.059	0.023	0.037	0.014	0.018	—	0.017	0.017	0.020	0.017	0.017	0.017
log likelihood	-318.000	-331.600	-332.300	-330.900	—	—	-331.000	-331.000	-331.000	-331.000	-331.000	-331.000
pAIC	640.100	667.200	668.600	667.900	0.000	—	668.000	667.900	668.000	667.900	666.000	666.000
X-COR(50%)	0.988	0.992	0.988	0.995	0.995	—	0.995	0.995	0.994	0.995	0.995	0.995
P-COR(50%)	0.989	0.990	0.991	0.992	0.992	—	0.992	0.992	0.991	0.992	0.992	0.992
SLSC(50%)	0.077	0.039	0.069	0.024	0.032	—	0.030	0.030	0.029	0.030	0.029	0.031

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	994	1,027	1,023	1,040	1,044	—	1,042	1,041	1,035	1,042	1,043	1,043
	1/3	1,080	1,109	1,113	1,124	1,126	—	1,125	1,123	1,118	1,124	1,126	1,125
	1/5	1,189	1,201	1,217	1,212	1,211	—	1,209	1,208	1,206	1,209	1,212	1,209
	1/10	1,336	1,316	1,353	1,314	1,307	—	1,307	1,307	1,312	1,307	1,311	1,307
	1/20	1,484	1,427	1,491	1,404	1,392	—	1,394	1,395	1,408	1,395	1,398	1,393
	1/30	1,570	1,490	1,573	1,452	1,439	—	1,442	1,444	1,462	1,443	1,446	1,440
	1/50	1,679	1,570	1,678	1,510	1,494	—	1,500	1,502	1,528	1,501	1,504	1,496
	1/80	1,779	1,642	1,777	1,559	1,543	—	1,551	1,554	1,588	1,553	1,555	1,547
	1/100	1,827	1,677	1,825	1,582	1,566	—	1,574	1,579	1,615	1,577	1,579	1,570
	1/150	1,913	1,739	1,913	1,621	1,606	—	1,617	1,622	1,666	1,620	1,621	1,611
	1/200	1,974	1,784	1,977	1,648	1,634	—	1,646	1,652	1,701	1,649	1,651	1,640
	1/300	2,060	1,846	2,069	1,685	1,673	—	1,687	1,694	1,751	1,691	1,691	1,680
	1/400	2,122	1,890	2,135	1,709	1,700	—	1,716	1,723	1,786	1,720	1,720	1,708
	1/500	2,169	1,925	2,187	1,728	1,721	—	1,738	1,746	1,813	1,742	1,742	1,730
	1/700	2,241	1,976	2,267	1,755	1,752	—	1,770	1,780	1,853	1,776	1,775	1,762
	1/1000	2,317	2,031	2,352	1,783	1,784	—	1,805	1,815	1,896	1,811	1,809	1,795
jackknife	1/2	25	26	26	28	3,127	—	25	29	29	29	26	26
error estimates	1/3	28	29	30	32	3,373	—	26	32	31	32	30	29
	1/5	34	35	37	36	3,625	—	33	36	35	36	36	35
	1/10	46	45	49	45	3,913	—	51	44	45	44	45	44
	1/20	60	55	62	59	4,166	—	74	55	59	55	55	52
	1/30	69	61	70	70	4,304	—	90	62	68	62	60	58
	1/50	80	69	81	85	4,469	—	110	73	82	73	67	64
	1/80	90	76	91	101	4,614	—	130	84	95	83	74	70
	1/100	95	79	97	109	4,681	—	140	90	101	88	77	73
	1/150	104	86	107	124	4,800	—	158	100	114	98	83	79
	1/200	110	90	114	136	4,883	—	172	108	123	106	87	82
	1/300	119	97	124	153	4,998	—	191	119	137	117	93	88
	1/400	125	101	132	165	5,078	—	205	127	146	125	97	91
	1/500	130	105	138	174	5,139	—	216	134	154	131	100	94
	1/700	138	110	147	189	5,230	—	233	144	166	141	105	99
	1/1000	145	116	157	205	5,326	—	251	155	180	151	110	104

less than 0.04(SLSC)
minimum value(SLSC)

CTI Engineering International Co., Ltd.
Oriental Consultants Co., Ltd.
Nippon Koei Co., Ltd.
CTI Engineering Co., Ltd.

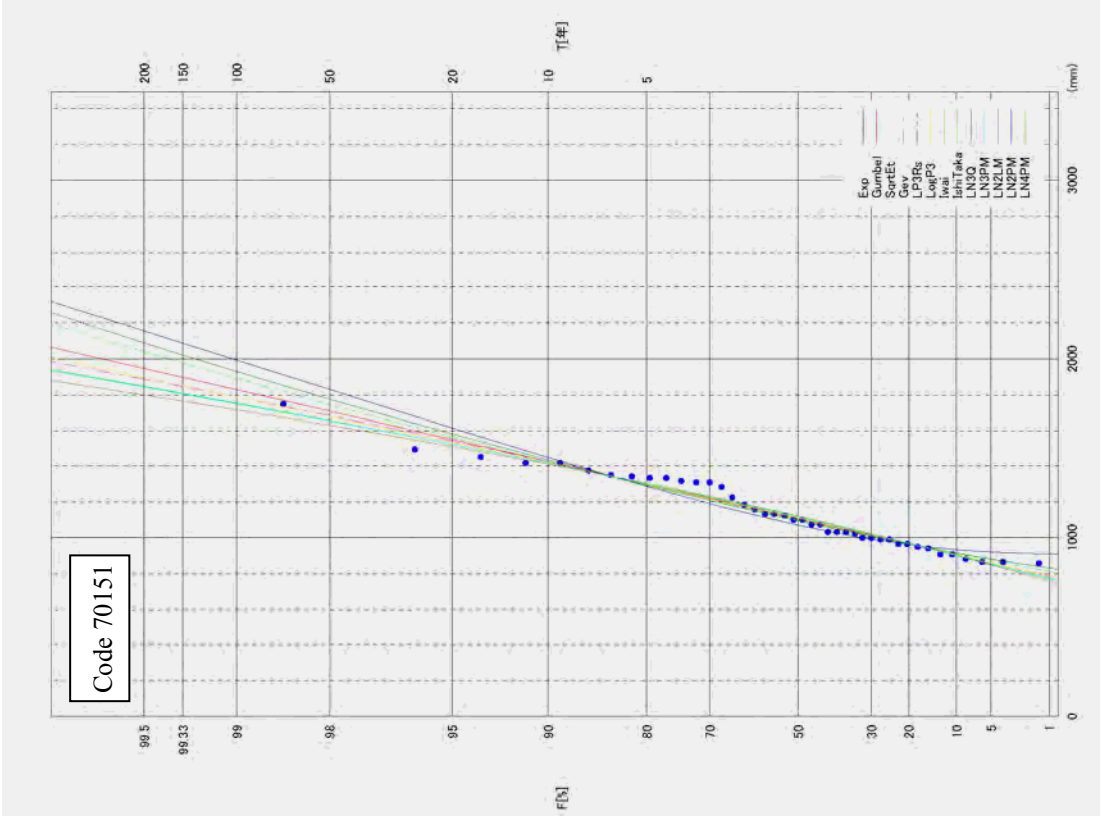


Figure C6.3.110 Probability Distribution on Gumbel Probability Paper (Station code 70151)

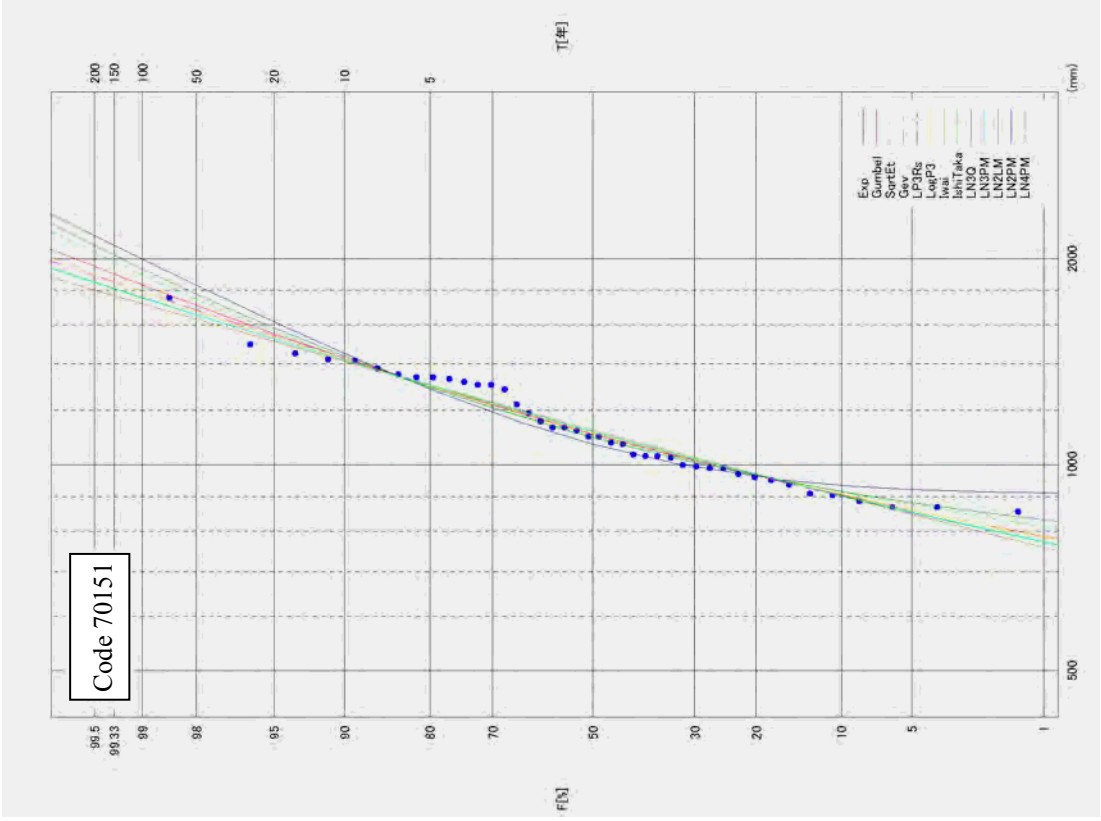


Figure C6.3.111 Probability Distribution on Log-normal Probability Paper (Station code 70151)

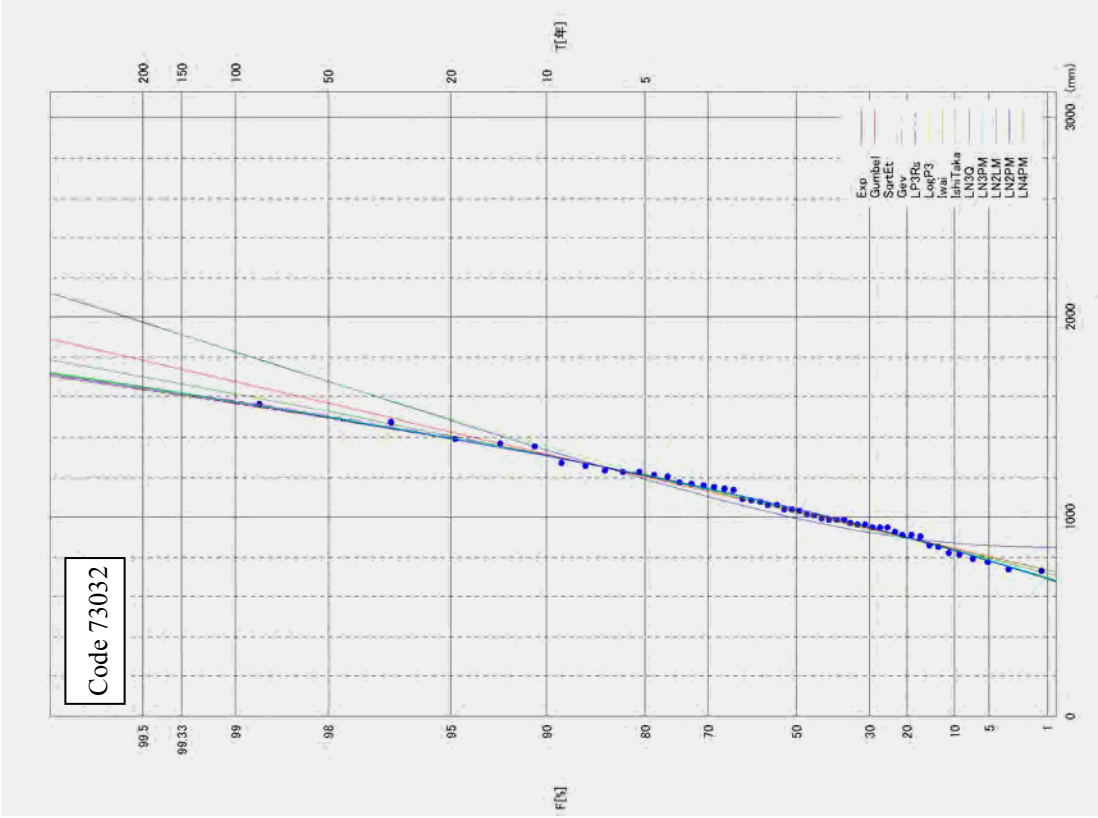


Figure C6.3.112 Probability Distribution on Gumbel Probability Paper (Station code 73032)

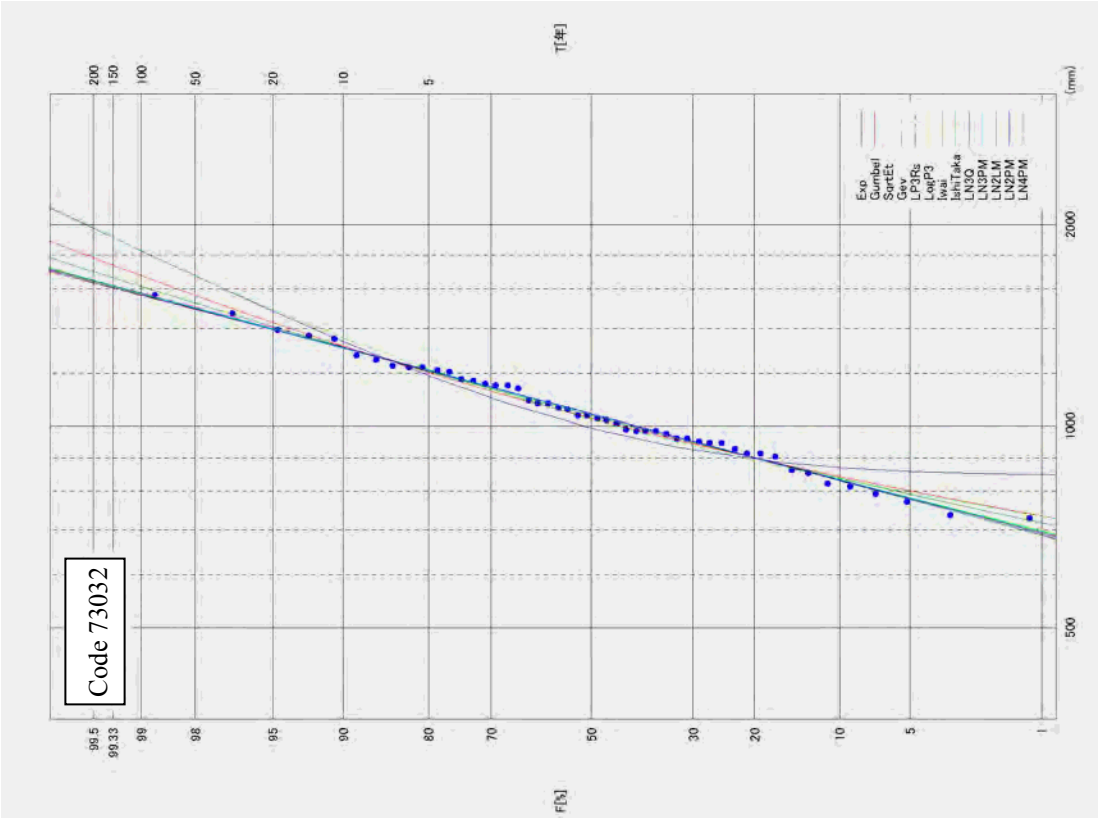


Figure C6.3.113 Probability Distribution on Log-normal Probability Paper (Station code 73032)

Table C 6.3.36 Result of Frequency Analysis of 6-Month Rainfall (27)

Station code 300201

	6months rainfall series (number of sumple N=48)											
	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	Ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.891	0.958	0.942	—	0.992	0.992	—	—	—	—	—	—
P-COR(99%)	0.785	0.980	0.973	—	0.997	0.997	—	—	—	—	—	—
SLSC(99%)	0.094	0.058	0.077	—	0.027	0.027	—	—	—	—	—	—
log likelihood	-304.800	-327.600	-325.800	—	-319.300	-319.100	—	—	—	—	—	—
pAIC	613.500	659.100	655.600	—	644.600	644.300	—	—	—	—	—	—
X-COR(50%)	0.993	0.993	0.994	—	0.967	0.992	—	—	—	—	—	—
P-COR(50%)	0.983	0.986	0.976	—	0.986	0.997	—	—	—	—	—	—
SLSC(50%)	0.109	0.078	0.143	—	0.070	0.067	—	—	—	—	—	—

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	1,144	1,177	1,178	—	1,221	1,220	—	—	—	—	—	—
	1/3	1,230	1,258	1,287	—	1,301	1,300	—	—	—	—	—	—
	1/5	1,337	1,349	1,414	—	1,372	1,372	—	—	—	—	—	—
	1/10	1,483	1,463	1,582	—	1,442	1,442	—	—	—	—	—	—
	1/20	1,629	1,572	1,750	—	1,494	1,496	—	—	—	—	—	—
	1/30	1,714	1,635	1,851	—	1,519	1,522	—	—	—	—	—	—
	1/50	1,822	1,714	1,980	—	1,546	1,551	—	—	—	—	—	—
	1/80	1,921	1,786	2,103	—	1,568	1,574	—	—	—	—	—	—
	1/100	1,968	1,820	2,162	—	1,578	1,584	—	—	—	—	—	—
	1/150	2,053	1,881	2,271	—	1,593	1,600	—	—	—	—	—	—
	1/200	2,114	1,925	2,350	—	1,604	1,611	—	—	—	—	—	—
	1/300	2,199	1,987	2,463	—	1,617	1,626	—	—	—	—	—	—
	1/400	2,259	2,031	2,545	—	1,625	1,635	—	—	—	—	—	—
	1/500	2,306	2,065	2,609	—	1,632	1,642	—	—	—	—	—	—
	1/700	2,377	2,116	2,707	—	1,641	1,652	—	—	—	—	—	—
	1/1000	2,452	2,170	2,814	—	1,649	1,661	—	—	—	—	—	—
jackknife	1/2	29	28	30	—	29	30	—	—	—	—	—	—
error estimates	1/3	27	26	30	—	27	28	—	—	—	—	—	—
	1/5	28	29	35	—	30	30	—	—	—	—	—	—
	1/10	37	36	46	—	41	38	—	—	—	—	—	—
	1/20	50	45	61	—	56	50	—	—	—	—	—	—
	1/30	59	51	71	—	65	57	—	—	—	—	—	—
	1/50	70	59	85	—	77	67	—	—	—	—	—	—
	1/80	81	67	98	—	89	77	—	—	—	—	—	—
	1/100	86	70	104	—	94	81	—	—	—	—	—	—
	1/150	96	77	117	—	103	89	—	—	—	—	—	—
	1/200	102	82	126	—	110	94	—	—	—	—	—	—
	1/300	112	88	139	—	119	102	—	—	—	—	—	—
	1/400	119	93	148	—	125	108	—	—	—	—	—	—
	1/500	124	97	156	—	130	112	—	—	—	—	—	—
	1/700	132	103	168	—	137	118	—	—	—	—	—	—
	1/1000	140	109	181	—	144	124	—	—	—	—	—	—

less than 0.04(SLSC)
minimum value(SLSC)

Station code 300202

	6months rainfall series (number of sumple N=49)											
	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	Ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.902	0.964	0.948	0.992	0.993	0.993	—	—	—	—	—	—
P-COR(99%)	0.766	0.988	0.983	0.995	0.995	0.995	—	—	—	—	—	—
SLSC(99%)	0.089	0.053	0.074	0.030	0.027	0.026	—	—	—	—	—	—
log likelihood	-309.600	-331.600	-330.500	-323.400	-323.600	-323.600	—	—	—	—	—	—
pAIC	623.100	667.200	664.900	652.900	653.100	653.200	—	—	—	—	—	—
X-COR(50%)	0.968	0.974	0.967	0.983	0.983	0.993	—	—	—	—	—	—
P-COR(50%)	0.979	0.981	0.981	0.984	0.985	0.995	—	—	—	—	—	—
SLSC(50%)	0.106	0.076	0.138	0.057	0.062	0.064	—	—	—	—	—	—

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	1,061	1,092	1,095	1,126	1,131	1,131	—	—	—	—	—	—
	1/3	1,144	1,171	1,200	1,206	1,209	1,209	—	—	—	—	—	—
	1/5	1,248	1,259	1,322	1,281	1,280	1,280	—	—	—	—	—	—
	1/10	1,389	1,370	1,483	1,357	1,352	1,351	—	—	—	—	—	—
	1/20	1,530	1,475	1,646	1,415	1,407	1,405	—	—	—	—	—	—
	1/30	1,613	1,536	1,744	1,443	1,434	1,432	—	—	—	—	—	—
	1/50	1,717	1,612	1,869	1,473	1,464	1,462	—	—	—	—	—	—
	1/80	1,813	1,682	1,988	1,496	1,488	1,486	—	—	—	—	—	—
	1/100	1,859	1,715	2,045	1,506	1,499	1,497	—	—	—	—	—	—
	1/150	1,941	1,775	2,151	1,522	1,517	1,515	—	—	—	—	—	—
	1/200	2,000	1,817	2,227	1,533	1,529	1,527	—	—	—	—	—	—
	1/300	2,083	1,877	2,337	1,546	1,545	1,542	—	—	—	—	—	—
	1/400	2,141	1,920	2,417	1,554	1,555	1,553	—	—	—	—	—	—
	1/500	2,187	1,952	2,479	1,560	1,563	1,560	—	—	—	—	—	—
	1/700	2,255	2,002	2,575	1,568	1,574	1,571	—	—	—	—	—	—
	1/1000	2,328	2,054	2,678	1,576	1,585	1,582	—	—	—	—	—	—
jackknife	1/2	27	26	27	26	27	28	—	—	—	—	—	—
error estimates	1/3	26	26	28	27	28	28	—	—	—	—	—	—
	1/5	28	29	36	30	30	30	—	—	—	—	—	—
	1/10	38	36	52	37	34	35	—	—	—	—	—	—
	1/20	50	45	71	46	42	44	—	—	—	—	—	—
	1/30	58	51	84	53	48	51	—	—	—	—	—	—
	1/50	69	58	101	62	56	59	—	—	—	—	—	—
	1/80	79	65	117	70	64	68	—	—	—	—	—	—
	1/100	84	69	125	74	68	72	—	—	—	—	—	—
	1/150	93	75	140	82	76	80	—	—	—	—	—	—
	1/200	99	79	151	87	81	85	—	—	—	—	—	—
	1/300	108	86	167	94	89	93	—	—	—	—	—	—
	1/400	114	90	179	99	95	99	—	—	—	—	—	—
	1/500	119	94	188	102	99	103	—	—	—	—	—	—
	1/700	126	99	203	107	106	110	—	—	—	—	—	—
	1/1000	134	105	218	113	113	117	—	—	—	—	—	—

less than 0.04(SLSC)
minimum value(SLSC)

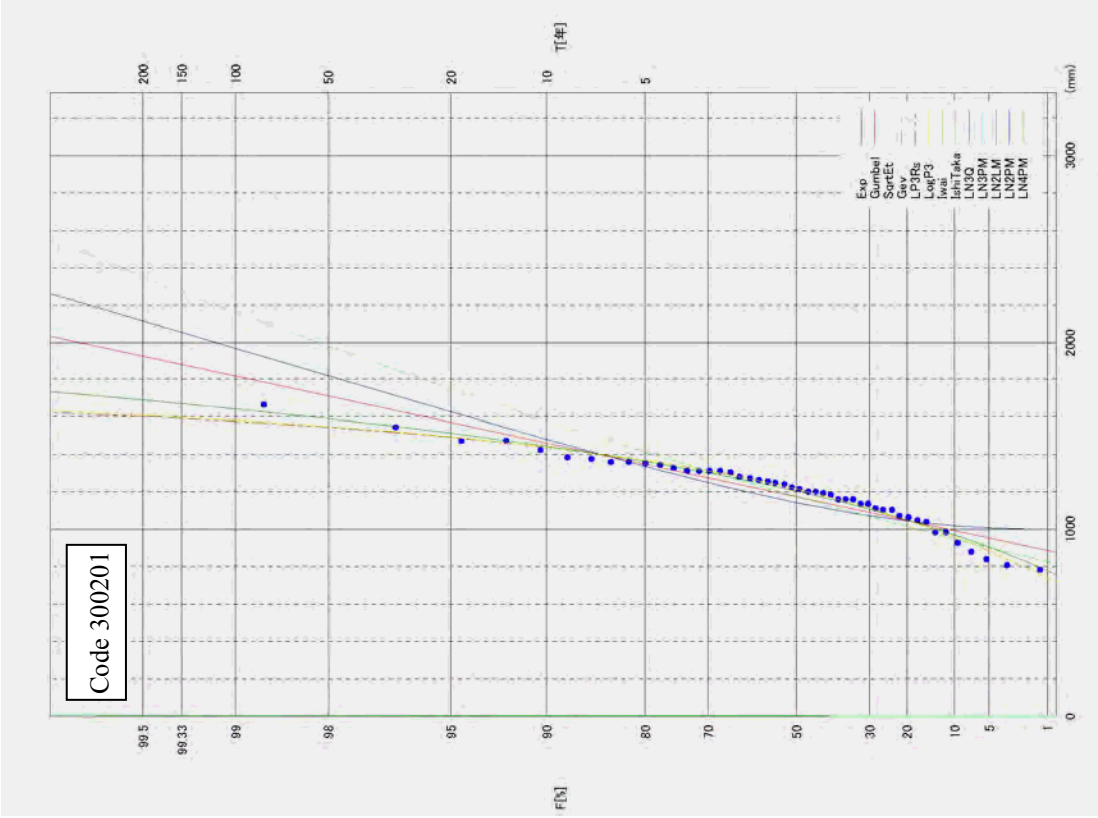


Figure C6.3.114 Probability Distribution on Gumbel Probability Paper (Station code 300201)

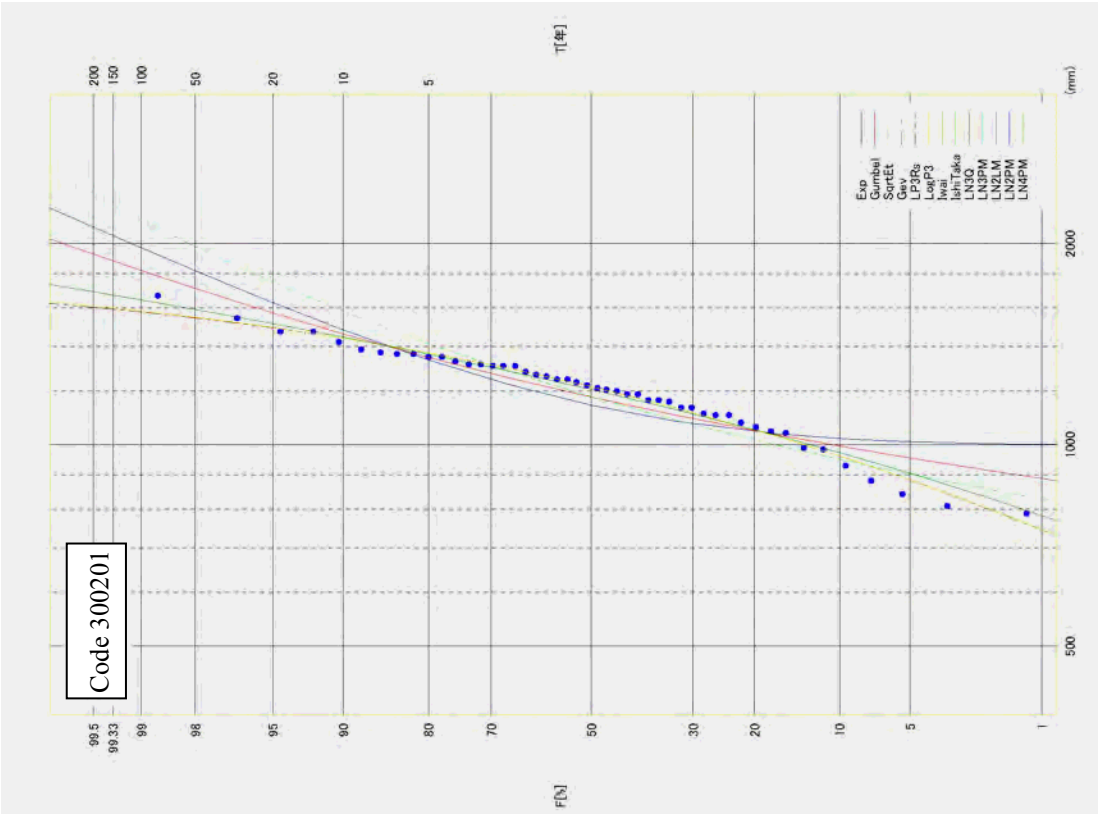


Figure C6.3.115 Probability Distribution on Log-normal Probability Paper (Station code 300201)

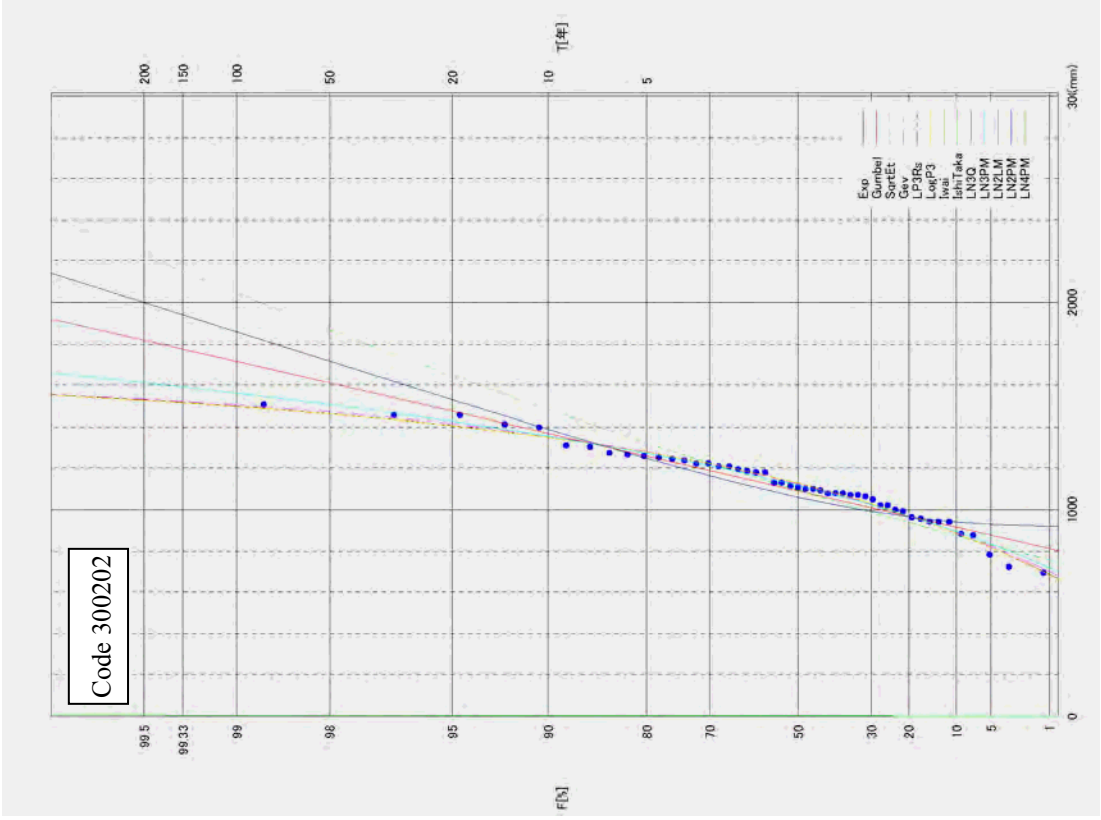


Figure C6.3.116 Probability Distribution on Gumbel Probability Paper (Station code 300202)

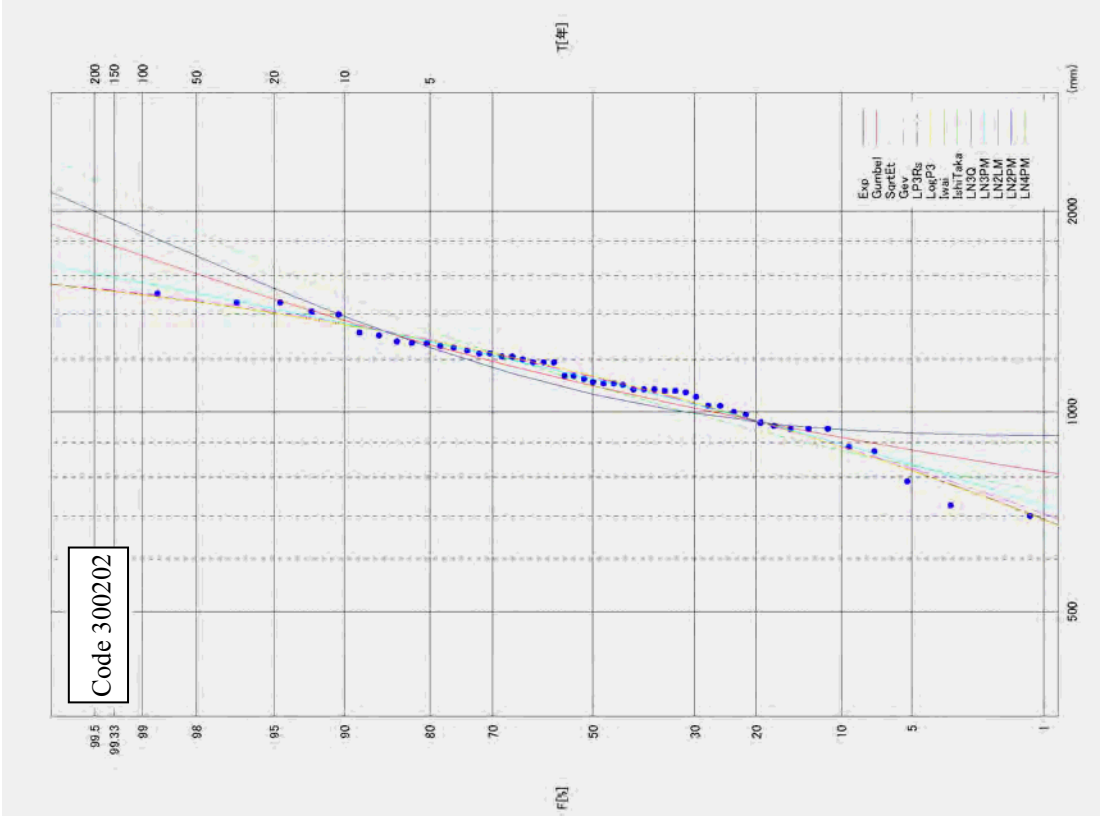


Figure C6.3.117 Probability Distribution on Log-normal Probability Paper (Station code 300202)

Table C 6.3.37 Result of Frequency Analysis of 6-Month Rainfall (28)

Station code 303201

6months rainfall series (number of sumple N=49)

	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.935	0.979	0.968	0.992	0.991	—	0.991	0.991	0.989	0.991	0.991	0.991
P-COR(99%)	0.910	0.993	0.992	0.994	0.992	—	0.993	0.993	0.994	0.993	0.993	0.993
SLSC(99%)	0.073	0.041	0.050	0.029	0.030	—	0.029	0.029	0.031	0.029	0.029	0.029
log likelihood	-327.300	-341.000	-341.700	-339.900	-340.100	—	-340.100	-340.100	-340.100	-340.100	-340.100	-340.000
pAIC	658.500	686.100	687.300	685.800	686.200	—	686.100	686.200	686.200	686.200	684.200	684.100
X-COR(50%)	0.944	0.957	0.947	0.978	0.980	—	0.976	0.977	0.970	0.978	0.974	0.974
P-COR(50%)	0.972	0.972	0.975	0.980	0.980	—	0.978	0.979	0.976	0.979	0.979	0.977
SLSC(50%)	0.103	0.075	0.094	0.053	0.060	—	0.058	0.058	0.060	0.058	0.057	0.058

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	1,496	1,542	1,537	1,565	1,576	—	1,570	1,573	1,559	1,573	1,566	1,566
	1/3	1,615	1,655	1,662	1,682	1,688	—	1,682	1,684	1,672	1,684	1,681	1,679
	1/5	1,764	1,781	1,805	1,800	1,798	—	1,794	1,795	1,790	1,795	1,798	1,794
	1/10	1,967	1,939	1,993	1,934	1,920	—	1,922	1,920	1,928	1,920	1,933	1,925
	1/20	2,170	2,091	2,182	2,049	2,023	—	2,033	2,027	2,053	2,027	2,052	2,041
	1/30	2,289	2,179	2,294	2,110	2,077	—	2,093	2,085	2,122	2,084	2,116	2,105
	1/50	2,438	2,288	2,439	2,180	2,141	—	2,165	2,153	2,206	2,152	2,194	2,180
	1/80	2,576	2,388	2,574	2,240	2,197	—	2,228	2,212	2,281	2,212	2,263	2,247
	1/100	2,641	2,435	2,639	2,267	2,222	—	2,257	2,240	2,316	2,239	2,295	2,278
	1/150	2,760	2,521	2,760	2,313	2,266	—	2,308	2,288	2,378	2,287	2,351	2,334
	1/200	2,844	2,582	2,847	2,344	2,296	—	2,344	2,322	2,422	2,320	2,391	2,372
	1/300	2,963	2,668	2,972	2,385	2,337	—	2,393	2,367	2,483	2,366	2,445	2,425
	1/400	3,047	2,729	3,062	2,413	2,366	—	2,427	2,399	2,526	2,398	2,483	2,462
	1/500	3,112	2,776	3,133	2,434	2,387	—	2,453	2,424	2,559	2,422	2,512	2,490
	1/700	3,210	2,847	3,241	2,464	2,419	—	2,492	2,460	2,608	2,458	2,556	2,533
	1/1000	3,315	2,922	3,357	2,494	2,452	—	2,532	2,497	2,660	2,495	2,601	2,577
jackknife	1/2	35	36	37	43	42	—	40	42	40	42	36	36
error estimates	1/3	37	39	42	47	45	—	41	45	42	45	40	40
	1/5	44	45	51	50	47	—	45	47	46	47	47	46
	1/10	57	55	66	53	50	—	56	50	54	50	57	55
	1/20	73	66	83	60	54	—	73	55	64	55	68	64
	1/30	82	73	94	66	58	—	84	59	70	59	75	70
	1/50	95	82	108	78	64	—	100	65	80	65	83	78
	1/80	107	91	121	91	71	—	115	72	89	71	91	84
	1/100	112	95	128	98	74	—	123	75	94	75	94	88
	1/150	123	102	141	112	81	—	137	82	103	81	101	94
	1/200	130	107	150	123	87	—	147	87	110	86	106	98
	1/300	140	115	163	138	96	—	162	95	120	94	112	104
	1/400	148	120	173	150	102	—	173	101	127	100	117	108
	1/500	154	124	181	159	107	—	181	105	133	104	121	111
	1/700	162	130	193	173	116	—	194	113	141	111	126	116
	1/1000	172	137	206	188	125	—	208	121	151	119	132	122

less than 0.04(SLSC)
minimum value(SLSC)

Station code 327501

6months rainfall series (number of sumple N=49)

	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.926	0.977	0.962	0.996	0.995	0.995	0.995	0.995	0.994	0.995	0.992	0.992
P-COR(99%)	0.894	0.993	0.991	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.997
SLSC(99%)	0.078	0.043	0.055	0.023	0.022	0.021	0.021	0.021	0.022	0.021	0.024	0.024
log likelihood	-313.600	-328.400	-329.200	-326.300	-326.400	-326.400	-326.500	-326.500	-326.600	-326.600	-326.800	-326.700
pAIC	631.200	660.900	662.500	658.600	658.800	658.900	659.100	659.100	659.100	659.100	657.500	657.500
X-COR(50%)	0.951	0.964	0.952	0.988	0.989	0.995	0.983	0.985	0.982	0.986	0.978	0.978
P-COR(50%)	0.991	0.990	0.993	0.994	0.993	0.997	0.992	0.993	0.992	0.993	0.993	0.992
SLSC(50%)	0.106	0.076	0.105	0.043	0.045	0.043	0.045	0.045	0.046	0.045	0.050	0.049

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	1,005	1,039	1,036	1,064	1,070	1,063	1,063	1,067	1,061	1,067	1,056	1,056
	1/3	1,095	1,125	1,134	1,152	1,154	1,148	1,148	1,151	1,145	1,151	1,144	1,142
	1/5	1,208	1,220	1,248	1,239	1,235	1,233	1,232	1,233	1,229	1,233	1,234	1,231
	1/10	1,361	1,340	1,398	1,333	1,322	1,326	1,325	1,322	1,325	1,322	1,339	1,333
	1/20	1,515	1,455	1,550	1,411	1,394	1,406	1,406	1,398	1,408	1,398	1,433	1,425
	1/30	1,605	1,521	1,640	1,450	1,431	1,449	1,449	1,438	1,453	1,438	1,484	1,474
	1/50	1,718	1,604	1,757	1,495	1,474	1,499	1,500	1,486	1,507	1,486	1,546	1,535
	1/80	1,822	1,680	1,866	1,532	1,510	1,542	1,545	1,527	1,554	1,526	1,601	1,588
	1/100	1,871	1,716	1,920	1,548	1,526	1,562	1,566	1,545	1,575	1,545	1,626	1,613
	1/150	1,961	1,781	2,018	1,575	1,554	1,597	1,602	1,578	1,614	1,578	1,671	1,657
	1/200	2,025	1,827	2,089	1,593	1,573	1,620	1,627	1,601	1,640	1,600	1,703	1,688
	1/300	2,115	1,892	2,191	1,617	1,599	1,653	1,661	1,631	1,677	1,631	1,747	1,731
	1/400	2,178	1,938	2,264	1,632	1,616	1,676	1,685	1,653	1,702	1,652	1,778	1,760
	1/500	2,228	1,973	2,322	1,644	1,629	1,693	1,703	1,669	1,722	1,668	1,801	1,783
	1/700	2,302	2,027	2,411	1,660	1,648	1,718	1,730	1,693	1,751	1,692	1,837	1,818
	1/1000	2,381	2,084	2,507	1,676	1,668	1,744	1,758	1,717	1,781	1,717	1,874	1,854
jackknife	1/2	27	27	28	32	32	31	31	32	32	31	28	28
error estimates	1/3	28	29	32	34	33	33	31	33	32	33	29	29
	1/5	32	32	39	35	34	34	33	34	33	34	34	33
	1/10	41	39	51	38	36	37	40	36	37	36	41	40
	1/20	52	48	65	43	39	43	52	39	42	39	50	48
	1/30	59	53	74	48	42	48	60	42	46	42	55	53
	1/50	69	59	86	56	46	55	72	47	52	47	62	59
	1/80	77	65	97	64	51	62	84	52	58	51	68	64
	1/100	82	68	103	68	54	66	90	54	61	54	71	67
	1/150	89	74	114	76	60	73	101	59	67	59	76	72
	1/200	95	78	122	82	64	79	109	63	72	62	80	76
	1/300	103	83	134	91	70	87	121	68	78	67	86	81
	1/400	108	87	142	97	75	93	129	72	83	71	90	84
	1/500	113	90	149	102	79	98	136	75	87	74	93	87
	1/700	119	95	159	109	85	106	146	80	93	79	98	91
	1/1000	126	100	170	116	91	114	157	85	100	84	103	96

less than 0.04(SLSC)
minimum value(SLSC)

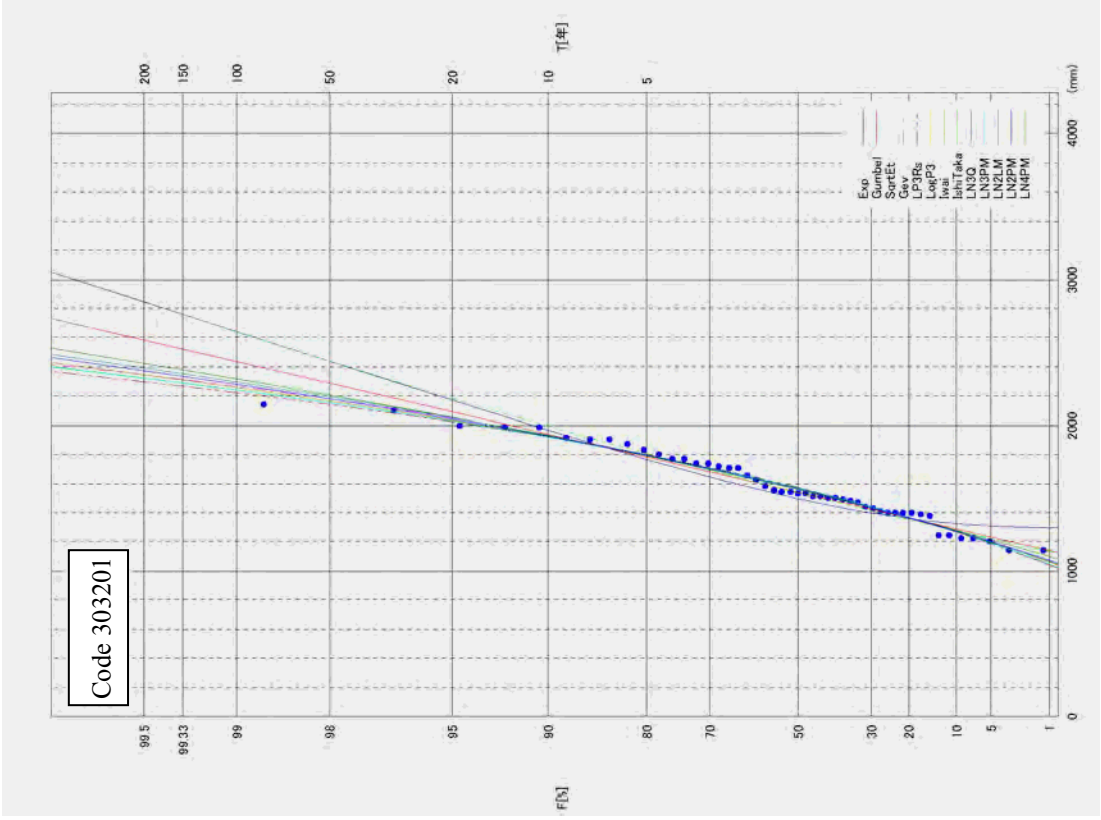


Figure C6.3.118 Probability Distribution on Gumbel Probability Paper (Station code 303201)

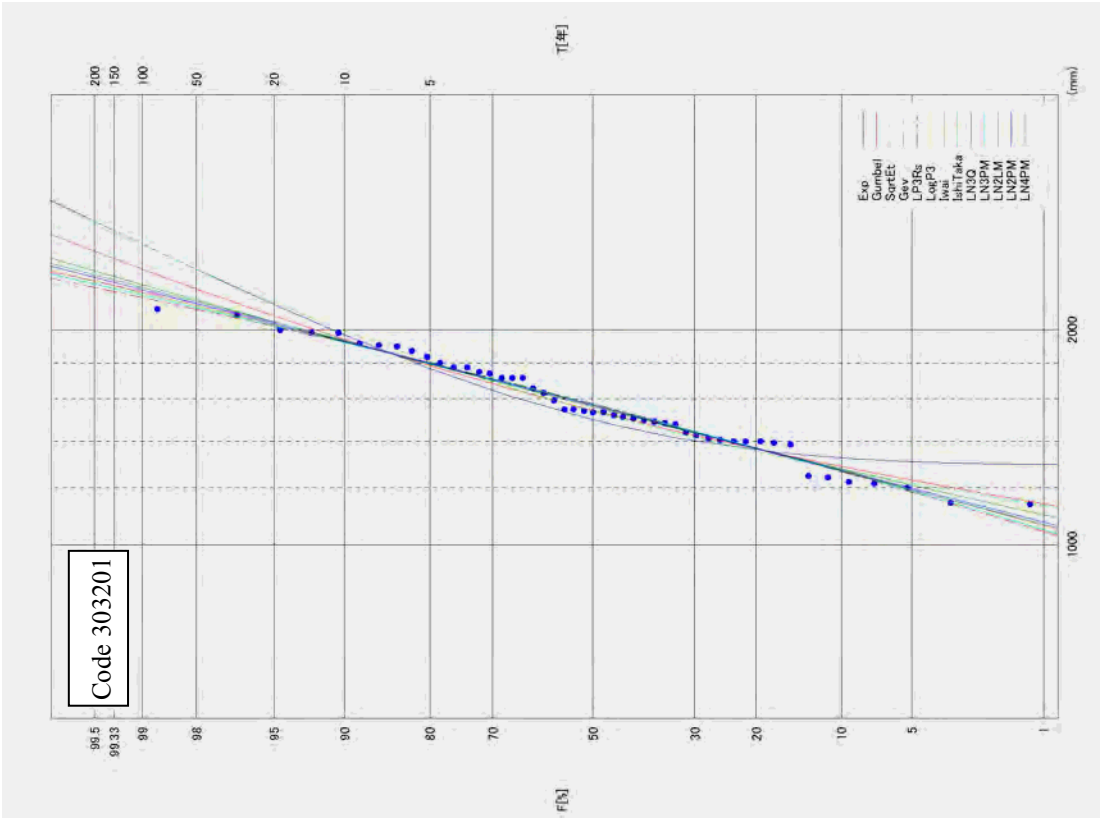


Figure C6.3.119 Probability Distribution on Log-normal Probability Paper (Station code 303201)

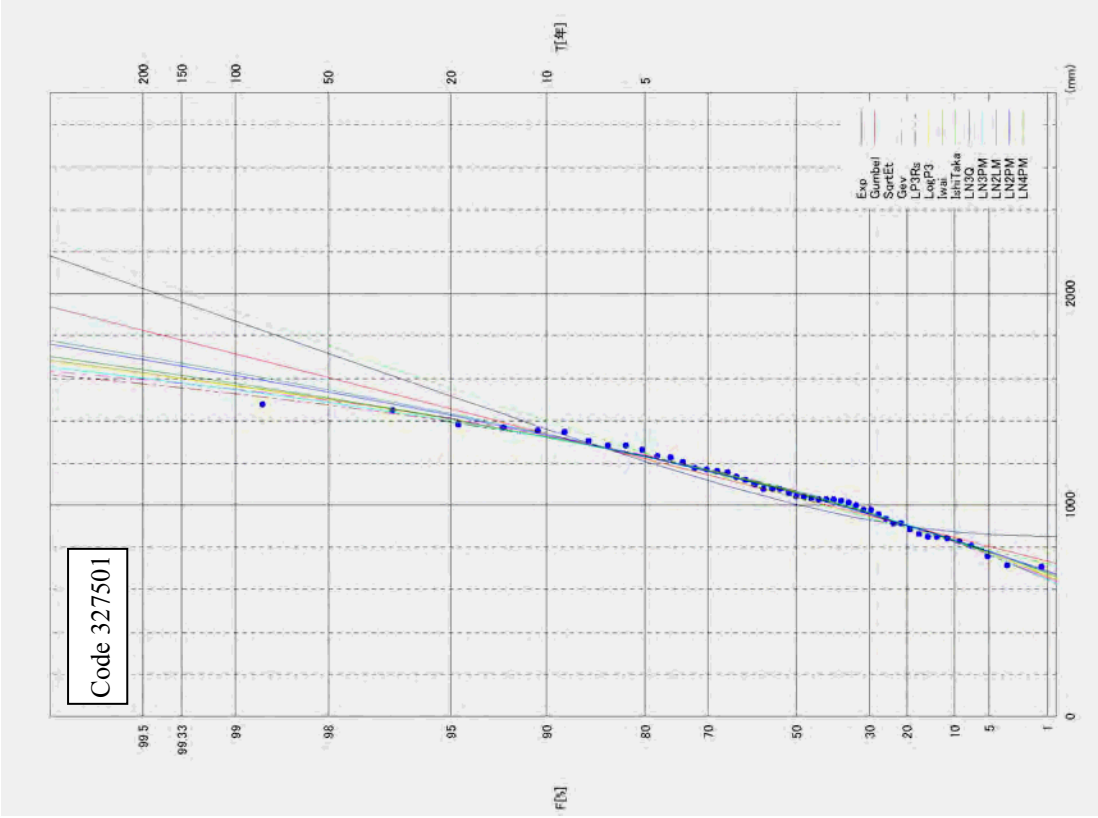


Figure C6.3.120 Probability Distribution on Gumbel Probability Paper (Station code 327501)

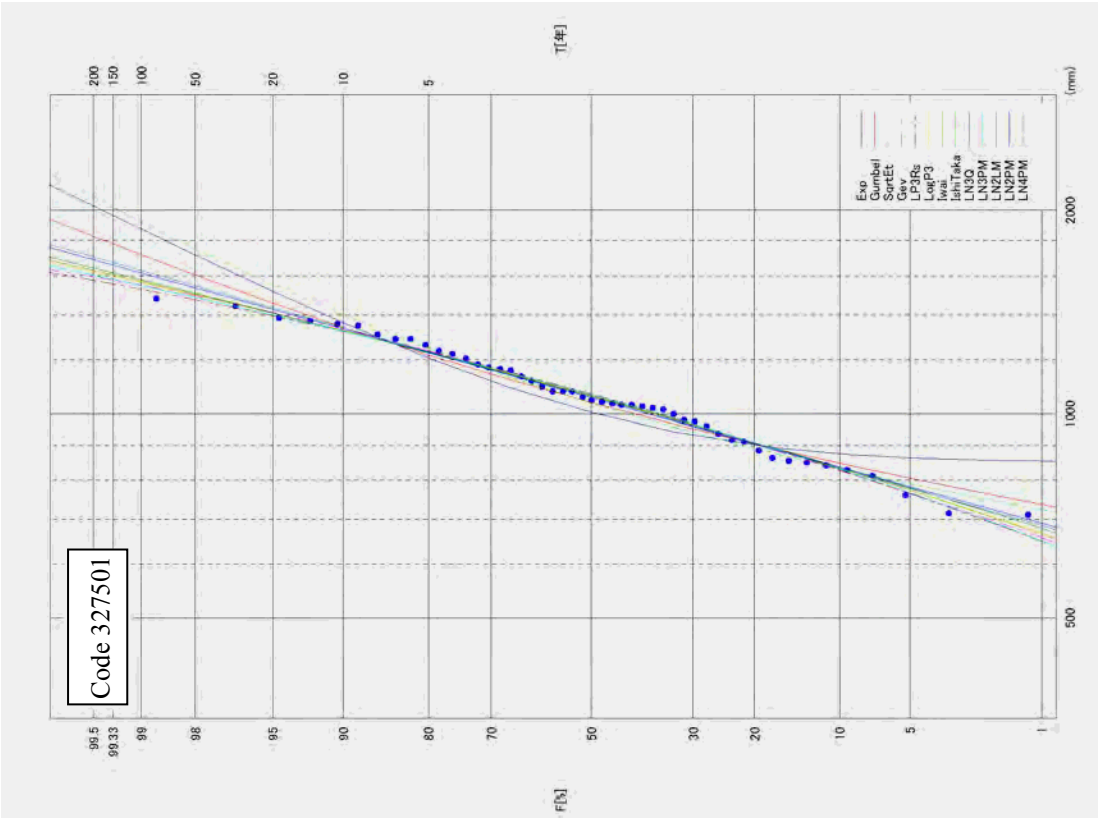


Figure C6.3.121 Probability Distribution on Log-normal Probability Paper (Station code 327501)

Table C 6.3.38 Result of Frequency Analysis of 6-Month Rainfall (29)

Station code 328201

	6months rainfall series (number of sumple N=49)											
	Exponential distribution	Gumbel Distribution	squre-root exponential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	Ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.974	0.989	0.990	0.988	—	0.989	0.983	—	0.989	—	—	—
P-COR(99%)	0.912	0.993	0.990	0.993	—	0.993	0.993	—	0.991	—	—	—
SLSC(99%)	0.046	0.031	0.030	0.035	—	0.031	0.033	—	0.035	—	—	—
log likelihood	-315.300	-327.900	-328.400	-327.900	—	-327.900	-328.100	—	-328.000	—	—	—
pAIC	634.700	659.800	660.800	661.700	—	661.700	662.200	—	662.100	—	—	—
X-COR(50%)	0.985	0.979	0.985	0.976	—	0.989	0.971	—	0.980	—	—	—
P-COR(50%)	0.971	0.974	0.972	0.973	—	0.993	0.971	—	0.972	—	—	—
SLSC(50%)	0.049	0.055	0.049	0.064	—	0.055	0.076	—	0.054	—	—	—

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	913	949	943	952	—	950	960	—	946	—	—	—
	1/3	1,006	1,038	1,037	1,041	—	1,040	1,050	—	1,037	—	—	—
	1/5	1,124	1,136	1,146	1,139	—	1,139	1,144	—	1,140	—	—	—
	1/10	1,283	1,261	1,291	1,261	—	1,263	1,256	—	1,269	—	—	—
	1/20	1,442	1,380	1,438	1,375	—	1,381	1,357	—	1,394	—	—	—
	1/30	1,535	1,448	1,525	1,439	—	1,449	1,413	—	1,466	—	—	—
	1/50	1,652	1,534	1,638	1,519	—	1,535	1,481	—	1,556	—	—	—
	1/80	1,760	1,612	1,745	1,591	—	1,614	1,543	—	1,640	—	—	—
	1/100	1,811	1,650	1,797	1,625	—	1,652	1,571	—	1,679	—	—	—
	1/150	1,904	1,717	1,892	1,686	—	1,721	1,623	—	1,752	—	—	—
	1/200	1,970	1,765	1,961	1,729	—	1,770	1,659	—	1,804	—	—	—
	1/300	2,063	1,832	2,061	1,788	—	1,840	1,709	—	1,878	—	—	—
	1/400	2,129	1,880	2,133	1,830	—	1,890	1,744	—	1,931	—	—	—
	1/500	2,180	1,917	2,189	1,863	—	1,930	1,772	—	1,972	—	—	—
	1/700	2,257	1,972	2,275	1,911	—	1,990	1,813	—	2,035	—	—	—
	1/1000	2,339	2,031	2,369	1,962	—	2,054	1,856	—	2,102	—	—	—
jackknife	1/2	26	28	28	26	—	29	27	—	27	—	—	—
error estimates	1/3	32	35	33	30	—	33	33	—	30	—	—	—
	1/5	45	46	41	40	—	43	44	—	43	—	—	—
	1/10	64	62	54	64	—	65	61	—	74	—	—	—
	1/20	86	77	69	96	—	95	81	—	114	—	—	—
	1/30	98	87	78	119	—	116	94	—	140	—	—	—
	1/50	115	98	91	151	—	145	111	—	176	—	—	—
	1/80	130	109	103	183	—	175	127	—	210	—	—	—
	1/100	137	114	109	200	—	190	135	—	228	—	—	—
	1/150	150	124	120	232	—	219	150	—	261	—	—	—
	1/200	159	130	128	255	—	240	161	—	285	—	—	—
	1/300	172	140	140	290	—	272	176	—	320	—	—	—
	1/400	181	146	149	316	—	296	188	—	346	—	—	—
	1/500	189	152	156	337	—	315	197	—	367	—	—	—
	1/700	200	159	167	369	—	345	211	—	399	—	—	—
	1/1000	211	168	178	405	—	378	226	—	434	—	—	—

less than 0.04(SLSC)
minimum value(SLSC)

Station code 330201

	6months rainfall series (number of sumple N=49)											
	Exponential distribution	Gumbel Distribution	squre-root exponential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	Ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.926	0.978	0.963	0.994	0.994	0.994	—	—	—	—	—	—
P-COR(99%)	0.771	0.993	0.991	0.998	0.998	0.998	—	—	—	—	—	—
SLSC(99%)	0.078	0.042	0.066	0.024	0.025	0.025	—	—	—	—	—	—
log likelihood	-310.400	-329.400	-329.600	-324.200	-324.200	-324.300	—	—	—	—	—	—
pAIC	624.700	662.800	663.300	654.300	654.400	654.600	—	—	—	—	—	—
X-COR(50%)	0.976	0.981	0.975	0.987	0.986	0.994	—	—	—	—	—	—
P-COR(50%)	0.992	0.994	0.990	0.992	0.993	0.998	—	—	—	—	—	—
SLSC(50%)	0.096	0.063	0.123	0.045	0.048	0.054	—	—	—	—	—	—

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	976	1,008	1,010	1,033	1,037	1,040	—	—	—	—	—	—
	1/3	1,060	1,088	1,113	1,115	1,118	1,120	—	—	—	—	—	—
	1/5	1,165	1,177	1,234	1,195	1,194	1,195	—	—	—	—	—	—
	1/10	1,309	1,289	1,393	1,282	1,276	1,274	—	—	—	—	—	—
	1/20	1,453	1,397	1,555	1,353	1,343	1,338	—	—	—	—	—	—
	1/30	1,537	1,459	1,651	1,388	1,377	1,370	—	—	—	—	—	—
	1/50	1,643	1,536	1,776	1,428	1,416	1,407	—	—	—	—	—	—
	1/80	1,740	1,607	1,894	1,460	1,449	1,438	—	—	—	—	—	—
	1/100	1,786	1,640	1,951	1,475	1,464	1,452	—	—	—	—	—	—
	1/150	1,870	1,701	2,056	1,499	1,489	1,475	—	—	—	—	—	—
	1/200	1,930	1,744	2,133	1,515	1,507	1,491	—	—	—	—	—	—
	1/300	2,014	1,805	2,243	1,535	1,530	1,512	—	—	—	—	—	—
	1/400	2,073	1,848	2,322	1,548	1,546	1,527	—	—	—	—	—	—
	1/500	2,120	1,882	2,384	1,558	1,557	1,537	—	—	—	—	—	—
	1/700	2,189	1,932	2,480	1,572	1,574	1,553	—	—	—	—	—	—
	1/1000	2,263	1,985	2,583	1,586	1,592	1,568	—	—	—	—	—	—
jackknife	1/2	26	26	25	27	28	29	—	—	—	—	—	—
error estimates	1/3	26	27	32	29	30	31	—	—	—	—	—	—
	1/5	31	32	51	33	33	33	—	—	—	—	—	—
	1/10	41	40	82	40	38	39	—	—	—	—	—	—
	1/20	54	49	117	52	46	52	—	—	—	—	—	—
	1/30	63	55	138	60	52	62	—	—	—	—	—	—
	1/50	73	63	166	72	61	78	—	—	—	—	—	—
	1/80	83	70	193	84	71	93	—	—	—	—	—	—
	1/100	88	73	206	90	76	101	—	—	—	—	—	—
	1/150	97	79	231	101	86	116	—	—	—	—	—	—
	1/200	103	84	249	109	93	127	—	—	—	—	—	—
	1/300	112	90	275	120	103	144	—	—	—	—	—	—
	1/400	118	95	294	128	111	155	—	—	—	—	—	—
	1/500	123	98	309	134	117	165	—	—	—	—	—	—
	1/700	131	103	333	143	127	179	—	—	—	—	—	—
	1/1000	139	109	358	153	137	195	—	—	—	—	—	—

less than 0.04(SLSC)
minimum value(SLSC)

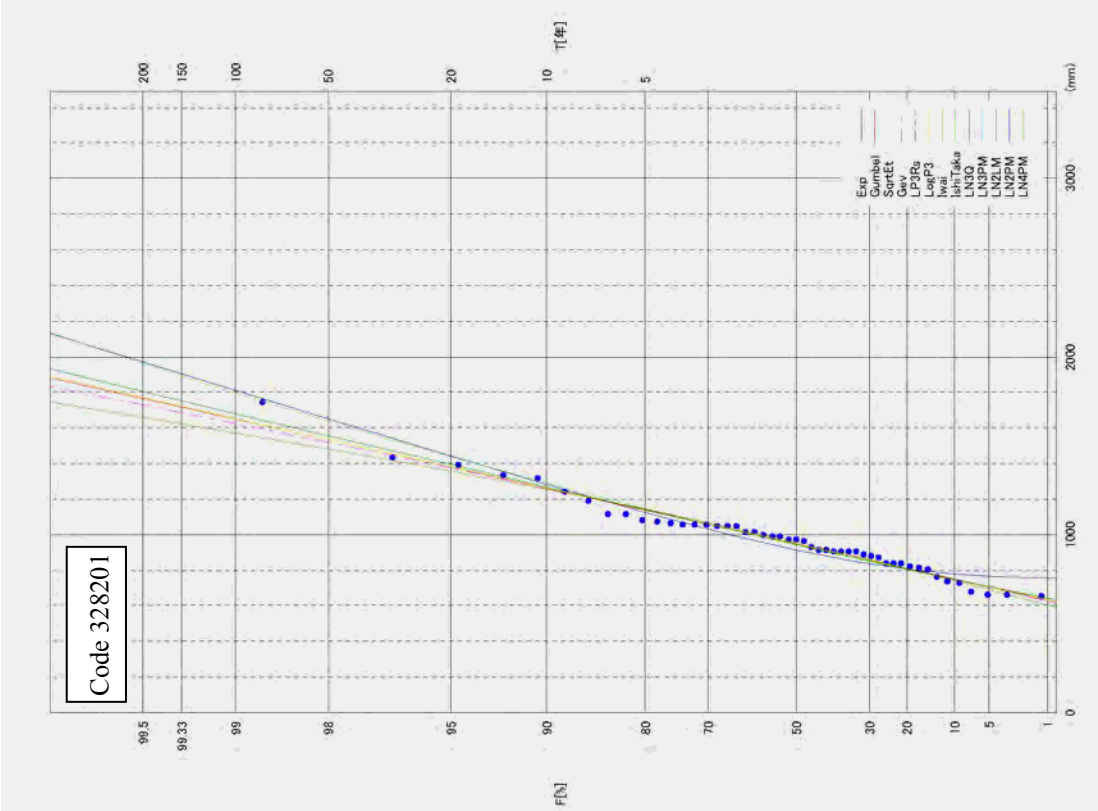


Figure C6.3.122 Probability Distribution on Gumbel Probability Paper (Station code 328201)

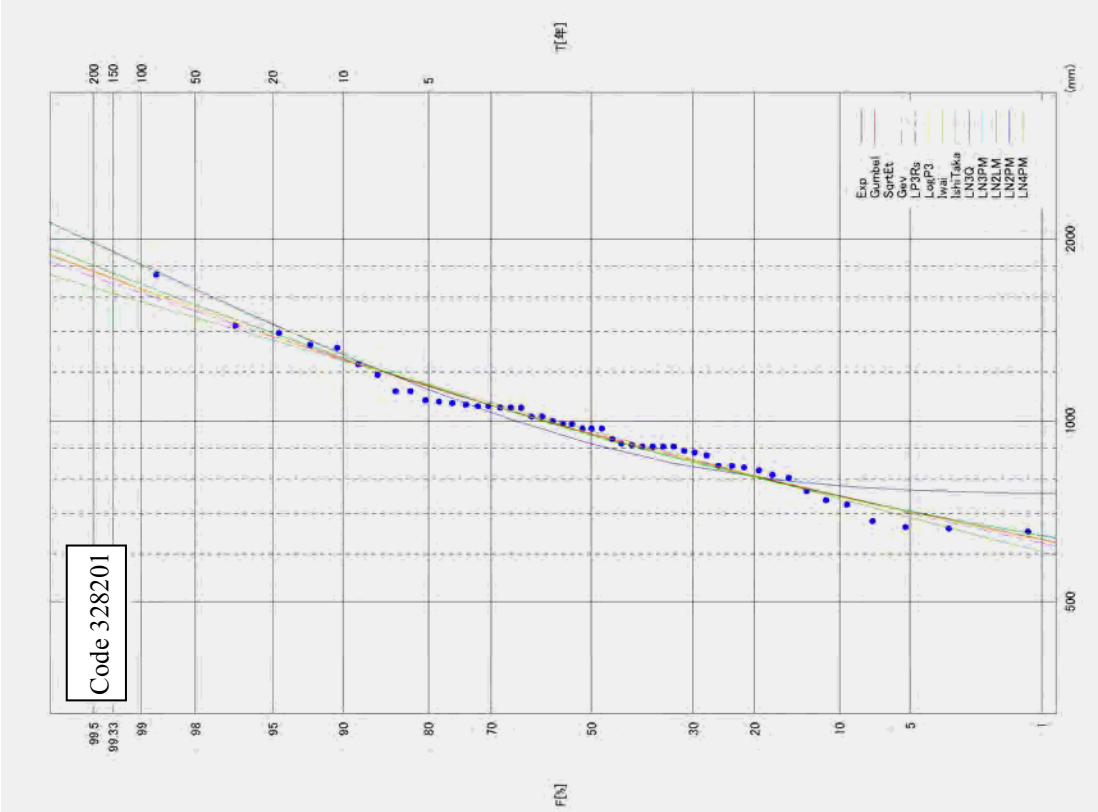


Figure C6.3.123 Probability Distribution on Log-normal Probability Paper (Station code 328201)

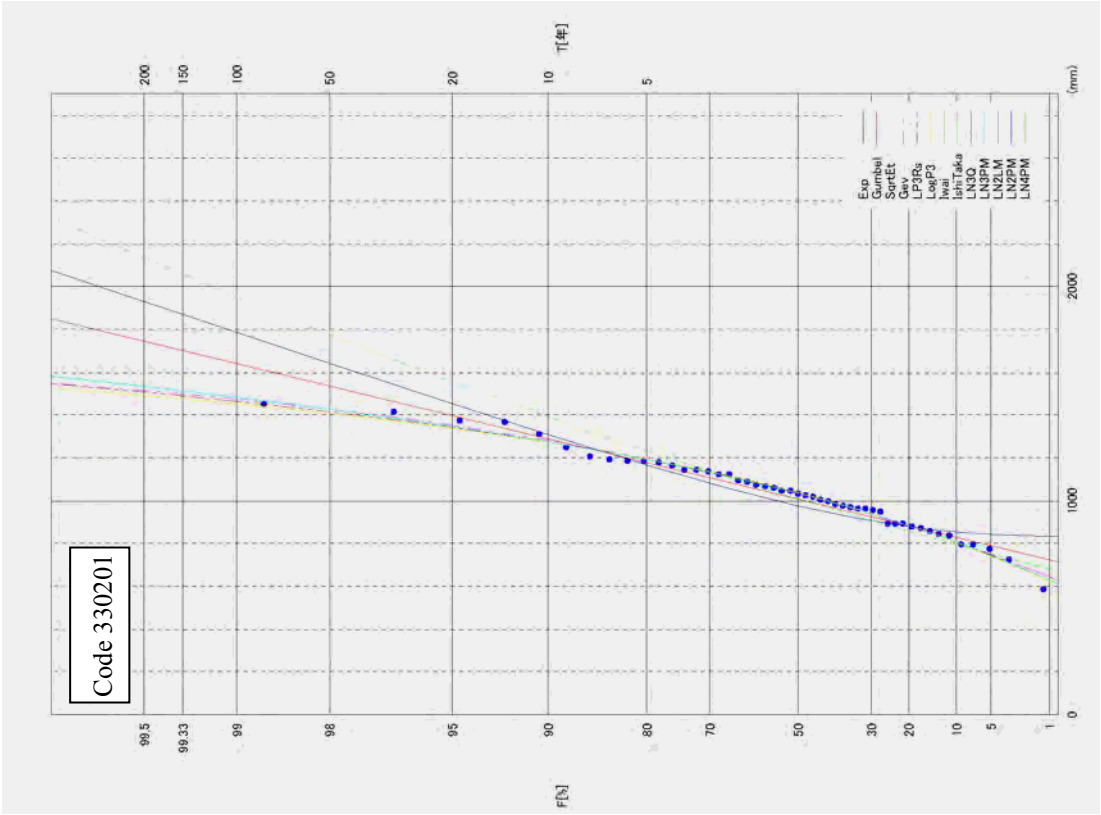


Figure C6.3.124 Probability Distribution on Gumbel Probability Paper (Station code 330201)

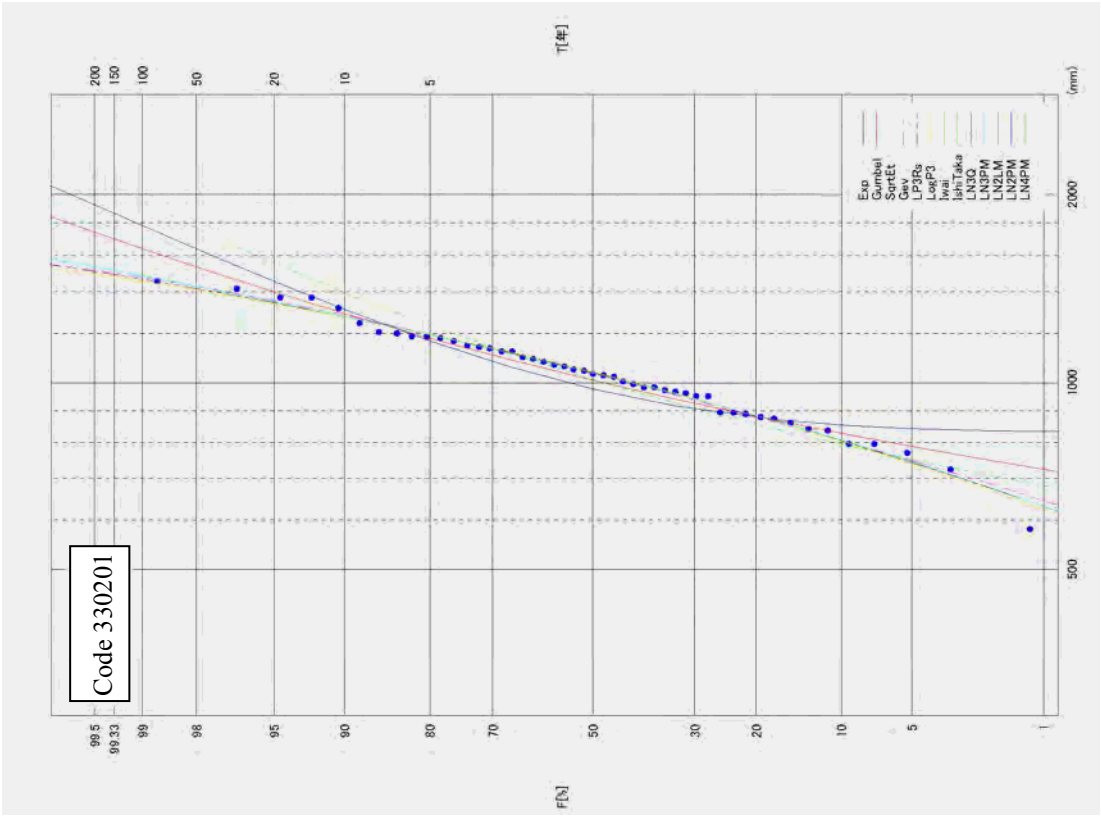


Figure C6.3.125 Probability Distribution on Log-normal Probability Paper (Station code 330201)

Table C 6.3.39 Result of Frequency Analysis of 6-Month Rainfall (30)

Station code 331201

	6months rainfall series (number of sumple N=49)											
	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.934	0.971	0.964	0.975	—	—	—	0.976	0.972	0.976	0.977	0.977
P-COR(99%)	0.932	0.987	0.984	0.992	—	—	—	0.991	0.987	0.991	0.992	0.992
SLSC(99%)	0.073	0.048	0.052	0.073	—	—	—	0.043	0.046	0.043	0.043	0.043
log likelihood	-313.900	-327.400	-327.900	-327.400	—	—	—	-326.900	-327.100	-326.900	-327.000	-327.000
pAIC	631.800	658.900	659.800	660.900	—	—	—	659.700	660.200	659.700	658.000	658.000
X-COR(50%)	0.932	0.935	0.936	0.927	—	—	—	0.933	0.935	0.933	0.932	0.932
P-COR(50%)	0.967	0.967	0.968	0.971	—	—	—	0.969	0.968	0.969	0.970	0.969
SLSC(50%)	0.101	0.084	0.094	0.145	—	—	—	0.083	0.084	0.083	0.086	0.086

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	1,090	1,124	1,119	1,145	—	—	—	1,136	1,124	1,137	1,142	1,142
	1/3	1,180	1,210	1,212	1,234	—	—	—	1,223	1,214	1,223	1,229	1,228
	1/5	1,294	1,306	1,319	1,323	—	—	—	1,313	1,312	1,314	1,318	1,317
	1/10	1,448	1,427	1,460	1,422	—	—	—	1,420	1,435	1,420	1,421	1,418
	1/20	1,602	1,542	1,601	1,505	—	—	—	1,517	1,551	1,516	1,512	1,508
	1/30	1,693	1,609	1,685	1,548	—	—	—	1,570	1,618	1,569	1,562	1,557
	1/50	1,807	1,692	1,793	1,598	—	—	—	1,635	1,701	1,634	1,622	1,616
	1/80	1,911	1,768	1,895	1,639	—	—	—	1,694	1,778	1,691	1,675	1,669
	1/100	1,961	1,804	1,944	1,658	—	—	—	1,721	1,814	1,718	1,699	1,693
	1/150	2,051	1,870	2,034	1,689	—	—	—	1,769	1,880	1,766	1,743	1,736
	1/200	2,115	1,916	2,099	1,711	—	—	—	1,804	1,927	1,800	1,773	1,766
	1/300	2,206	1,981	2,193	1,738	—	—	—	1,851	1,994	1,847	1,815	1,807
	1/400	2,270	2,028	2,261	1,757	—	—	—	1,884	2,041	1,880	1,845	1,836
	1/500	2,320	2,064	2,314	1,771	—	—	—	1,910	2,078	1,905	1,867	1,859
	1/700	2,394	2,118	2,395	1,790	—	—	—	1,949	2,134	1,943	1,901	1,892
	1/1000	2,474	2,175	2,482	1,810	—	—	—	1,990	2,194	1,984	1,936	1,927
jackknife	1/2	27	27	28	34	—	—	—	1,111	33,627	32	28	28
error estimates	1/3	29	31	33	35	—	—	—	1,196	33,541	32	31	32
	1/5	36	37	40	38	—	—	—	1,285	33,446	37	37	38
	1/10	48	46	51	50	—	—	—	1,389	33,330	56	45	47
	1/20	63	57	63	70	—	—	—	1,483	33,219	83	54	56
	1/30	71	63	70	84	—	—	—	1,536	33,157	101	59	62
	1/50	83	71	79	103	—	—	—	1,599	33,079	125	66	69
	1/80	93	79	89	122	—	—	—	1,656	33,008	149	72	75
	1/100	98	82	93	132	—	—	—	1,683	32,975	161	75	78
	1/150	107	89	102	149	—	—	—	1,731	32,915	182	80	84
	1/200	114	94	108	161	—	—	—	1,764	32,872	198	84	88
	1/300	123	100	117	178	—	—	—	1,811	32,812	221	89	93
	1/400	130	105	124	190	—	—	—	1,843	32,769	238	93	97
	1/500	135	109	129	200	—	—	—	1,869	32,736	251	96	100
	1/700	143	114	137	214	—	—	—	1,907	32,686	271	100	105
	1/1000	151	120	146	228	—	—	—	1,947	32,634	293	105	110

less than 0.04(SLSC)
minimum value(SLSC)

Station code 331401

	6months rainfall series (number of sumple N=40)											
	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.915	0.963	0.948	0.981	0.981	—	0.979	0.980	0.980	0.980	0.977	0.977
P-COR(99%)	0.937	0.985	0.985	0.986	0.985	—	0.985	0.985	0.985	0.985	0.986	0.985
SLSC(99%)	0.082	0.054	0.059	0.044	0.043	—	0.042	0.042	0.043	0.042	0.041	0.042
log likelihood	-266.300	-276.800	-277.300	-276.200	-276.300	—	-276.400	-276.500	-276.400	-276.500	-276.400	-276.300
pAIC	536.500	557.700	558.600	558.300	558.500	—	558.700	559.000	558.800	559.000	556.800	556.700
X-COR(50%)	0.936	0.950	0.938	0.973	0.977	—	0.968	0.972	0.970	0.973	0.964	0.965
P-COR(50%)	0.979	0.977	0.979	0.983	0.983	—	0.980	0.981	0.980	0.981	0.981	0.980
SLSC(50%)	0.129	0.105	0.116	0.080	0.070	—	0.082	0.075	0.081	0.075	0.086	0.087

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	1,233	1,277	1,271	1,304	1,316	—	1,303	1,312	1,307	1,312	1,298	1,298
	1/3	1,349	1,388	1,389	1,418	1,425	—	1,412	1,420	1,414	1,420	1,411	1,408
	1/5	1,495	1,511	1,526	1,532	1,530	—	1,523	1,526	1,521	1,526	1,528	1,522
	1/10	1,694	1,666	1,707	1,660	1,642	—	1,649	1,643	1,641	1,643	1,664	1,654
	1/20	1,892	1,815	1,889	1,768	1,735	—	1,759	1,742	1,745	1,742	1,786	1,771
	1/30	2,008	1,900	1,998	1,823	1,783	—	1,818	1,795	1,800	1,795	1,852	1,835
	1/50	2,154	2,007	2,138	1,888	1,838	—	1,890	1,857	1,866	1,857	1,933	1,913
	1/80	2,289	2,105	2,271	1,942	1,885	—	1,952	1,911	1,924	1,911	2,004	1,982
	1/100	2,353	2,151	2,334	1,966	1,906	—	1,981	1,936	1,950	1,935	2,038	2,014
	1/150	2,469	2,235	2,453	2,007	1,942	—	2,033	1,979	1,997	1,979	2,097	2,072
	1/200	2,551	2,295	2,538	2,034	1,967	—	2,068	2,009	2,030	2,008	2,139	2,111
	1/300	2,667	2,379	2,661	2,070	2,000	—	2,118	2,050	2,074	2,049	2,196	2,167
	1/400	2,749	2,438	2,749	2,095	2,022	—	2,152	2,078	2,105	2,077	2,237	2,206
	1/500	2,813	2,484	2,819	2,112	2,039	—	2,178	2,100	2,129	2,099	2,268	2,236
	1/700	2,909	2,554	2,925	2,138	2,064	—	2,217	2,131	2,164	2,130	2,314	2,280
	1/1000	3,012	2,628	3,040	2,164	2,089	—	2,258	2,164	2,200	2,163	2,363	2,327
jackknife	1/2	38	38	39	55	49	—	49	49	115	49	39	39
error estimates	1/3	40	41	47	58	51	—	50	50	106	50	43	42
	1/5	45	45	59	55	50	—	49	49	69	49	49	48
	1/10	55	53	78	48	47	—	49	47	39	47	58	57
	1/20	67	62	99	48	45	—	54	47	120	47	67	66
	1/30	75	67	112	56	46	—	60	48	180	48	73	71
	1/50	85	74	130	73	51	—	71	53	261	52	81	79
	1/80	94	81	147	93	58	—	84	58	340	58	88	85
	1/100	99	84	155	104	62	—	91	61	379	61	92	89
	1/150	107	90	171	124	71	—	104	68	452	68	98	95
	1/200	113	95	182	139	77	—	114	73	505	73	102	99
	1/300	122	101	199	162	88	—	128	81	582	81	109	105
	1/400	128	105	211	178	96	—	139	87	637	86	113	109
	1/500	133	108	220	190	102	—	148	92	681	91	117	112
	1/700	140	113	235	210	112	—	162	100	748	99	122	118
	1/1000	148	119	251	230	122	—	177	108	821	107	128	123

less than 0.04(SLSC)
minimum value(SLSC)

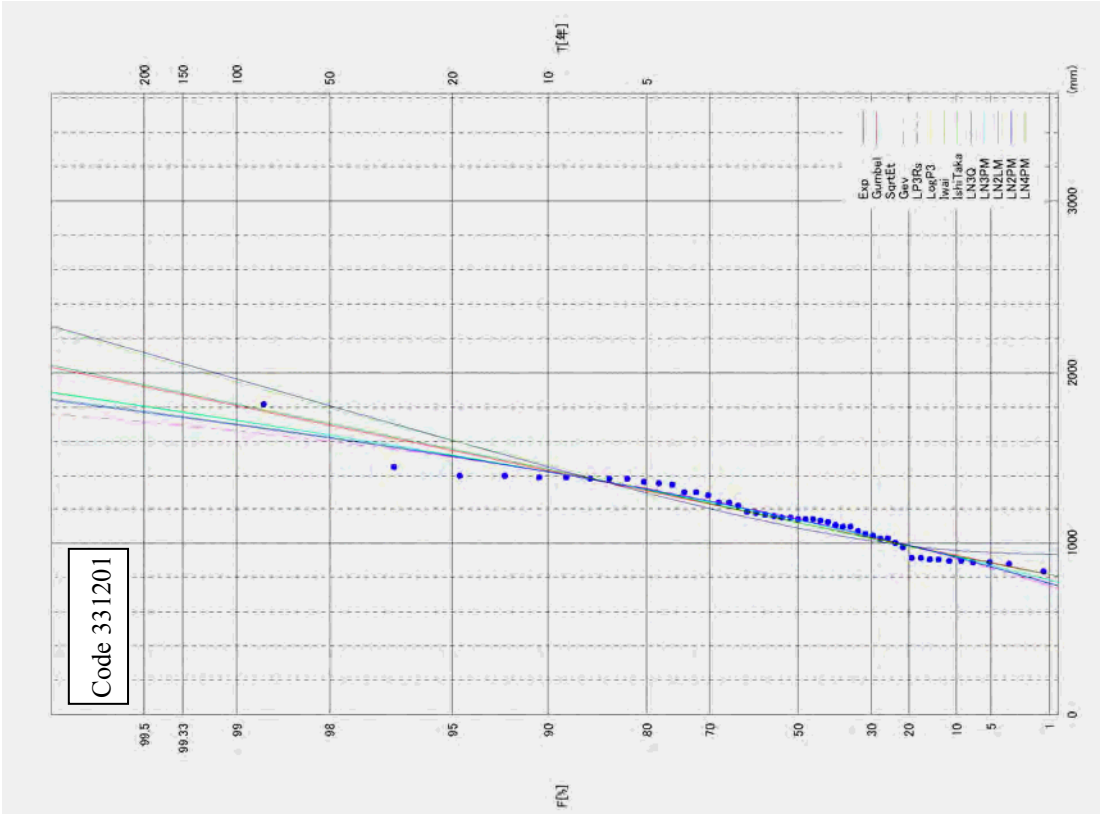


Figure C6.3.126 Probability Distribution on Gumbel Probability Paper (Station code 331201)

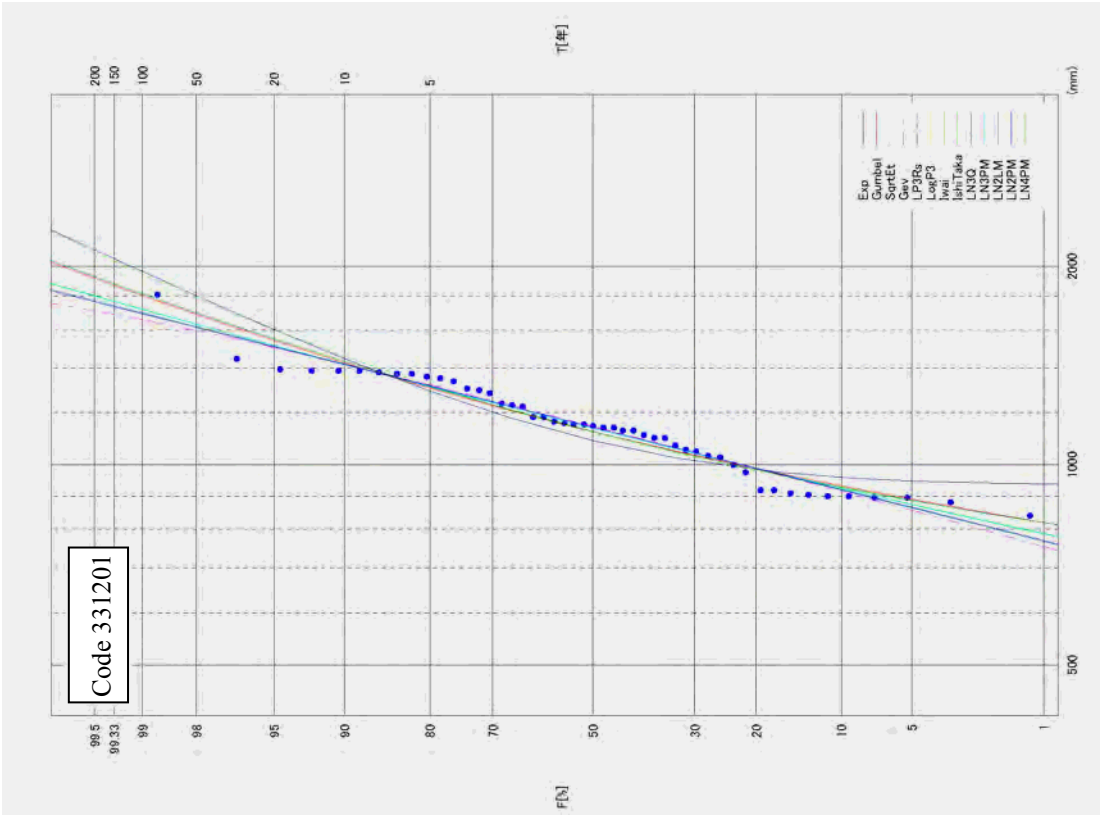


Figure C6.3.127 Probability Distribution on Log-normal Probability Paper (Station code 331201)

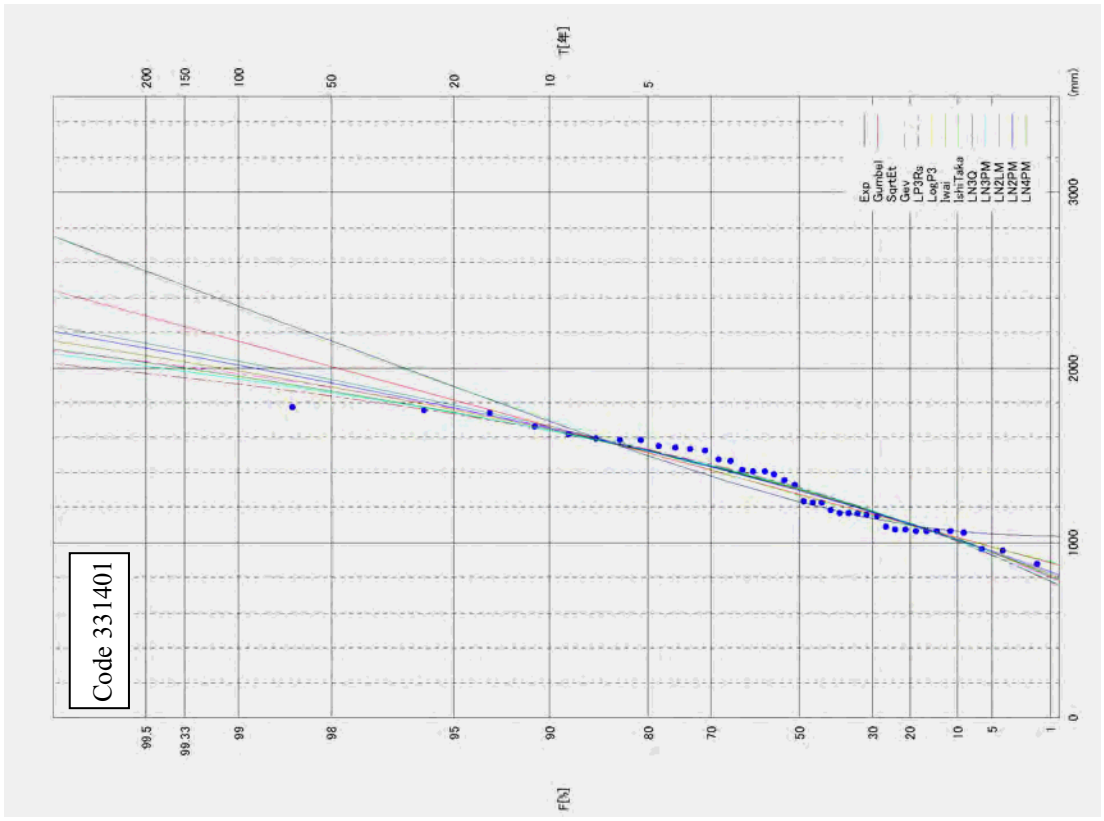


Figure C6.3.128 Probability Distribution on Gumbel Probability Paper (Station code 331401)

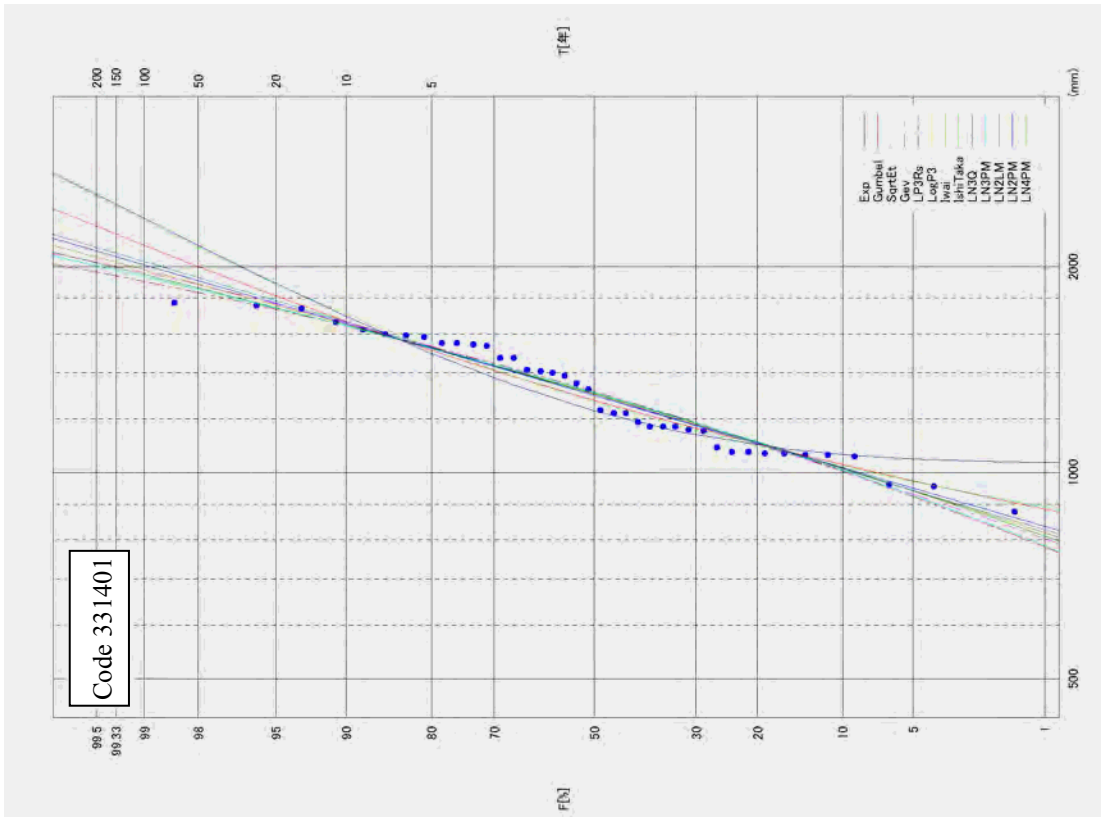


Figure C6.3.129 Probability Distribution on Log-normal Probability Paper (Station code 331401)

Table C 6.3.40 Result of Frequency Analysis of 6-Month Rainfall (31)

Station code 351201

	6months rainfall series (number of sumple N=49)											
	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	Ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.986	0.991	0.994	0.994	—	0.993	0.990	—	0.990	—	—	—
P-COR(99%)	0.900	0.993	0.994	0.996	—	0.994	0.993	—	0.992	—	—	—
SLSC(99%)	0.034	0.029	0.023	0.025	—	0.029	0.036	—	0.036	—	—	—
log likelihood	-324.900	-336.400	-336.600	-337.100	—	-337.200	-336.600	—	-336.600	—	—	—
pAIC	653.900	676.800	677.300	680.200	—	680.400	679.200	—	679.200	—	—	—
X-COR(50%)	0.994	0.994	0.994	0.994	—	0.993	0.994	—	0.994	—	—	—
P-COR(50%)	0.996	0.997	0.997	0.996	—	0.994	0.997	—	0.997	—	—	—
SLSC(50%)	0.031	0.047	0.028	0.028	—	0.034	0.047	—	0.052	—	—	—

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	1,243	1,286	1,279	1,272	—	1,279	1,287	—	1,288	—	—	—
	1/3	1,356	1,394	1,389	1,376	—	1,387	1,396	—	1,396	—	—	—
	1/5	1,498	1,514	1,517	1,498	—	1,510	1,517	—	1,514	—	—	—
	1/10	1,692	1,665	1,685	1,663	—	1,668	1,667	—	1,660	—	—	—
	1/20	1,885	1,810	1,854	1,832	—	1,824	1,809	—	1,798	—	—	—
	1/30	1,998	1,893	1,954	1,935	—	1,915	1,890	—	1,877	—	—	—
	1/50	2,141	1,997	2,084	2,069	—	2,032	1,992	—	1,974	—	—	—
	1/80	2,272	2,093	2,205	2,198	—	2,141	2,085	—	2,064	—	—	—
	1/100	2,334	2,138	2,264	2,262	—	2,194	2,129	—	2,106	—	—	—
	1/150	2,447	2,220	2,373	2,380	—	2,291	2,210	—	2,183	—	—	—
	1/200	2,528	2,278	2,451	2,467	—	2,362	2,267	—	2,238	—	—	—
	1/300	2,641	2,360	2,563	2,593	—	2,463	2,348	—	2,315	—	—	—
	1/400	2,721	2,418	2,645	2,686	—	2,536	2,405	—	2,370	—	—	—
	1/500	2,783	2,463	2,708	2,759	—	2,594	2,450	—	2,412	—	—	—
	1/700	2,877	2,530	2,806	2,873	—	2,683	2,518	—	2,477	—	—	—
	1/1000	2,977	2,602	2,911	2,998	—	2,779	2,591	—	2,546	—	—	—
jackknife	1/2	30	34	32	33	—	35	33	—	38	—	—	—
error estimates	1/3	40	44	40	43	—	43	42	—	44	—	—	—
	1/5	57	59	54	56	—	56	55	—	55	—	—	—
	1/10	82	78	77	77	—	78	77	—	75	—	—	—
	1/20	108	98	103	110	—	109	102	—	100	—	—	—
	1/30	124	109	119	135	—	131	119	—	117	—	—	—
	1/50	144	124	140	175	—	162	142	—	141	—	—	—
	1/80	162	137	160	221	—	196	165	—	166	—	—	—
	1/100	171	143	170	246	—	213	176	—	178	—	—	—
	1/150	187	155	188	297	—	247	198	—	201	—	—	—
	1/200	198	163	202	338	—	273	215	—	219	—	—	—
	1/300	214	174	221	402	—	313	239	—	245	—	—	—
	1/400	225	182	236	453	—	343	257	—	264	—	—	—
	1/500	234	189	247	495	—	368	272	—	279	—	—	—
	1/700	247	198	264	564	—	407	294	—	303	—	—	—
	1/1000	261	208	283	645	—	451	319	—	329	—	—	—

less than 0.04(SLSC)
minimum value(SLSC)

Station code 376201

	6months rainfall series (number of sumple N=48)											
	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	Ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.916	0.969	0.953	0.992	0.991	0.991	0.990	0.991	0.991	0.991	0.986	0.986
P-COR(99%)	0.872	0.993	0.990	0.995	0.995	0.995	0.995	0.995	0.995	0.995	0.996	0.996
SLSC(99%)	0.082	0.049	0.061	0.034	0.029	0.029	0.029	0.029	0.029	0.029	0.032	0.033
log likelihood	-300.500	-316.000	-316.700	-313.200	-313.200	-313.300	-313.400	-313.400	-313.400	-313.400	-313.800	-313.800
pAIC	605.000	636.000	637.300	632.300	632.500	632.600	632.800	632.800	632.800	632.800	631.600	631.500
X-COR(50%)	0.936	0.948	0.935	0.976	0.977	0.991	0.972	0.973	0.973	0.973	0.964	0.964
P-COR(50%)	0.992	0.991	0.992	0.990	0.990	0.995	0.990	0.990	0.990	0.990	0.991	0.991
SLSC(50%)	0.115	0.088	0.117	0.064	0.056	0.055	0.058	0.058	0.060	0.058	0.063	0.062

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	890	919	918	942	948	943	944	945	945	945	934	934
	1/3	968	994	1,005	1,018	1,021	1,017	1,017	1,018	1,017	1,018	1,010	1,009
	1/5	1,066	1,077	1,106	1,093	1,091	1,089	1,088	1,089	1,087	1,089	1,089	1,087
	1/10	1,199	1,181	1,240	1,175	1,166	1,169	1,167	1,166	1,163	1,166	1,181	1,177
	1/20	1,333	1,281	1,376	1,242	1,226	1,236	1,233	1,230	1,227	1,230	1,262	1,257
	1/30	1,411	1,338	1,456	1,275	1,257	1,271	1,268	1,264	1,261	1,264	1,306	1,301
	1/50	1,509	1,410	1,560	1,314	1,293	1,312	1,309	1,304	1,300	1,304	1,360	1,353
	1/80	1,600	1,476	1,659	1,345	1,323	1,347	1,345	1,339	1,334	1,338	1,407	1,400
	1/100	1,643	1,507	1,706	1,359	1,336	1,363	1,361	1,354	1,349	1,354	1,429	1,422
	1/150	1,721	1,564	1,794	1,382	1,359	1,391	1,389	1,382	1,376	1,381	1,468	1,460
	1/200	1,776	1,604	1,857	1,397	1,375	1,410	1,409	1,400	1,395	1,400	1,496	1,487
	1/300	1,854	1,660	1,948	1,417	1,396	1,436	1,436	1,426	1,420	1,426	1,534	1,525
	1/400	1,910	1,700	2,014	1,430	1,410	1,454	1,454	1,444	1,438	1,443	1,560	1,551
	1/500	1,953	1,731	2,066	1,440	1,420	1,468	1,468	1,457	1,451	1,457	1,581	1,571
	1/700	2,017	1,778	2,145	1,453	1,436	1,487	1,489	1,477	1,470	1,477	1,611	1,601
	1/1000	2,086	1,828	2,231	1,467	1,451	1,508	1,510	1,497	1,490	1,497	1,643	1,632
jackknife	1/2	24	24	25	28	28	27	28	28	43	27	24	24
error estimates	1/3	25	25	28	30	29	28	28	28	41	28	26	26
	1/5	28	28	33	31	30	30	29	29	33	29	30	29
	1/10	36	35	43	33	31	32	31	31	26	31	37	35
	1/20	46	42	55	36	32	37	34	33	34	33	44	42
	1/30	53	47	62	40	34	40	37	35	45	35	49	46
	1/50	61	53	73	45	37	46	40	38	62	38	55	52
	1/80	69	58	83	51	40	51	44	41	79	41	61	57
	1/100	73	61	88	54	42	54	46	42	87	42	64	60
	1/150	80	66	97	61	46	59	50	46	103	45	69	64
	1/200	85	69	104	65	49	63	53	48	115	48	73	68
	1/300	92	74	114	72	53	69	57	52	131	51	78	72
	1/400	97	78	121	77	57	74	60	55	143	54	81	76
	1/500	101	81	127	81	60	77	62	57	153	56	84	78
	1/700	107	85	136	87	64	83	66	60	167	60	88	82
	1/1000	113	90	145	93	69	88	70	64	182	63	93	86

less than 0.04(SLSC)
minimum value(SLSC)

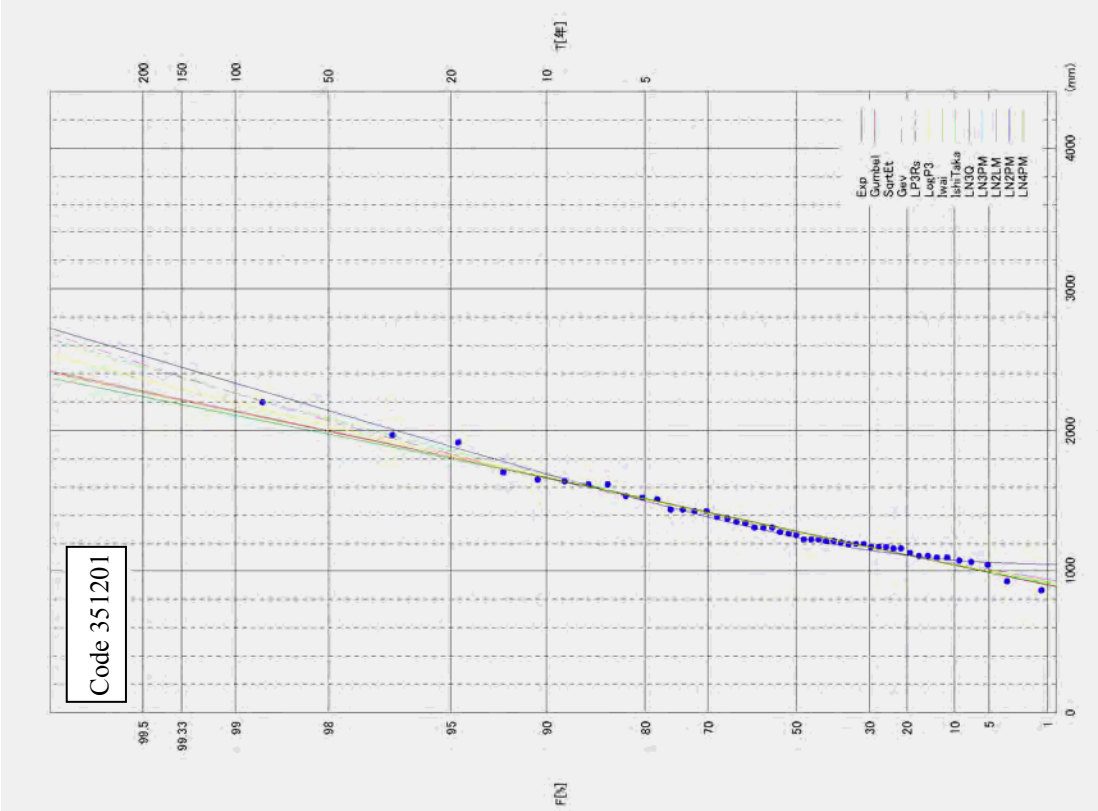


Figure C6.3.130 Probability Distribution on Gumbel Probability Paper (Station code 351201)

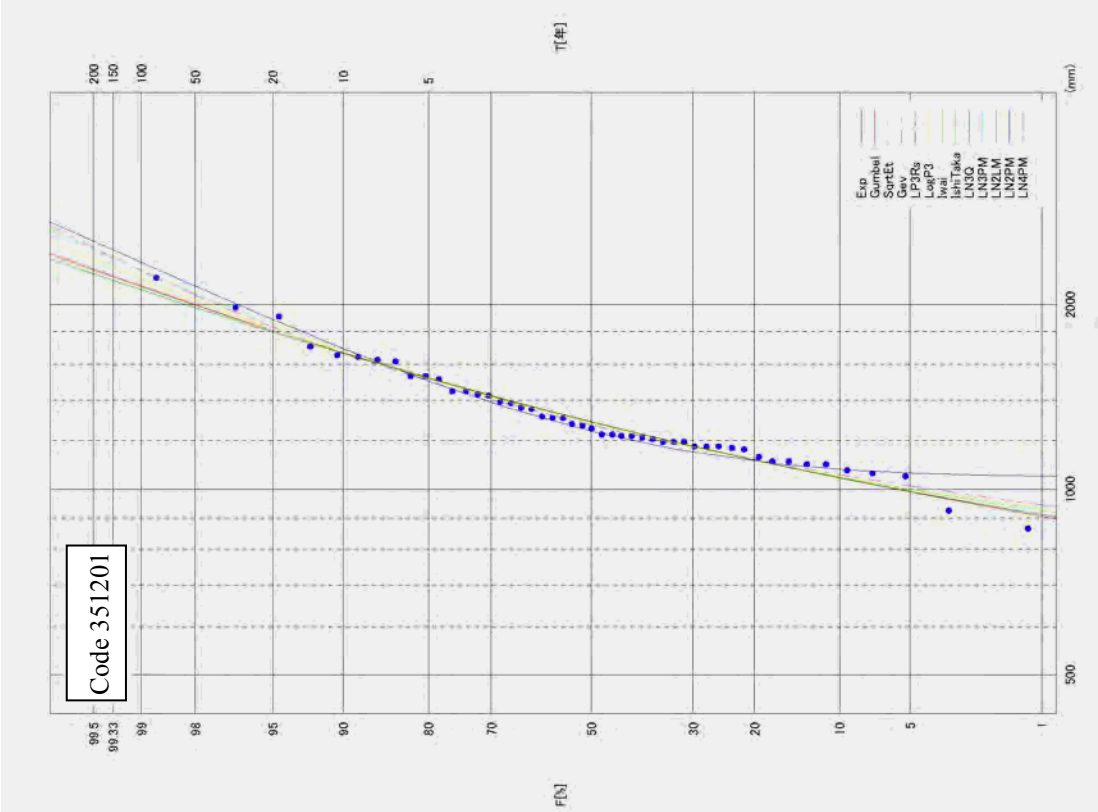


Figure C6.3.131 Probability Distribution on Log-normal Probability Paper (Station code 351201)

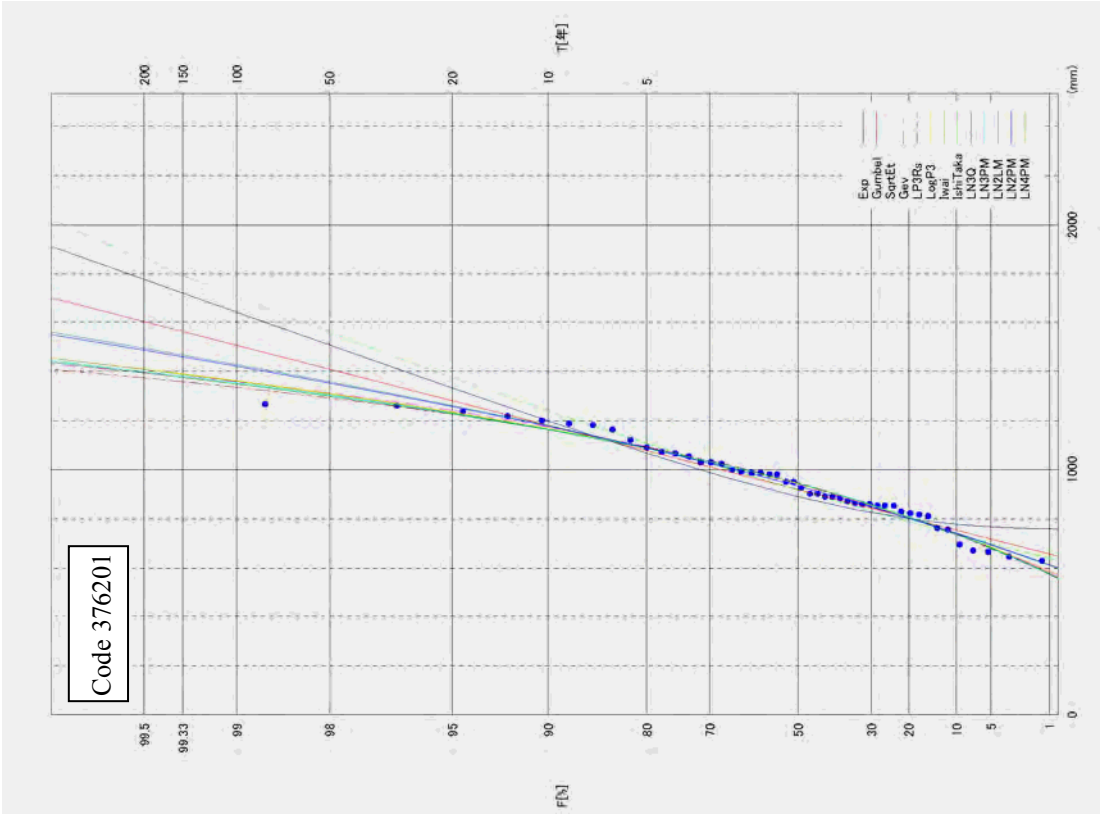


Figure C6.3.132 Probability Distribution on Gumbel Probability Paper (Station code 376201)

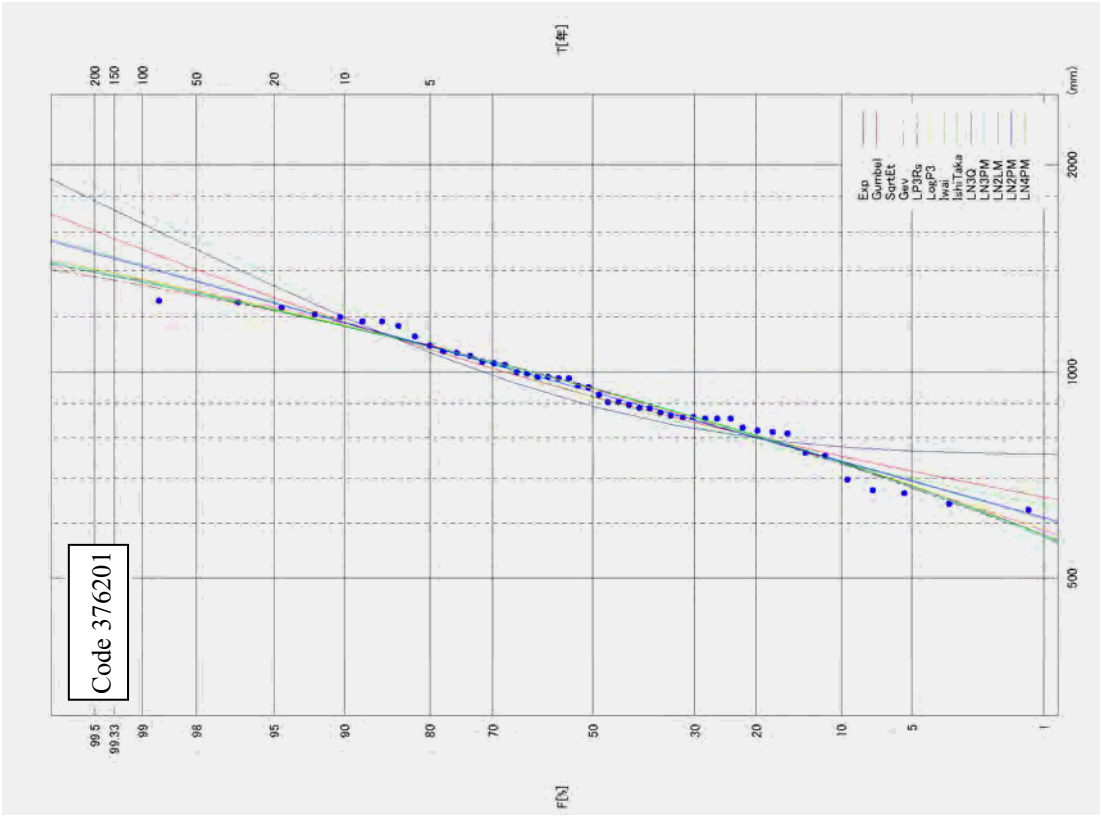


Figure C6.3.133 Probability Distribution on Log-normal Probability Paper (Station code 376201)

Table C 6.3.41 Result of Frequency Analysis of 6-Month Rainfall (32)

Station code 376202

	6months rainfall series (number of sumple N=47)											
	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.922	0.973	0.956	0.987	0.987	0.987	0.987	0.987	0.986	0.987	—	—
P-COR(99%)	0.845	0.988	0.988	0.992	0.992	0.992	0.992	0.992	0.991	0.992	—	—
SLSC(99%)	0.079	0.047	0.064	0.064	0.030	0.030	0.032	0.032	0.033	0.032	—	—
log likelihood	-325.600	-341.400	-342.600	-338.900	-338.600	-338.600	-338.700	-338.600	-338.700	-338.600	—	—
pAIC	655.200	686.700	689.100	683.800	683.300	683.300	683.300	683.300	683.500	683.300	—	—
X-COR(50%)	0.959	0.961	0.963	0.946	0.950	0.987	0.954	0.955	0.956	0.955	—	—
P-COR(50%)	0.957	0.961	0.962	0.972	0.972	0.992	0.970	0.969	0.968	0.969	—	—
SLSC(50%)	0.111	0.086	0.124	0.127	0.077	0.076	0.075	0.075	0.076	0.075	—	—

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	1,333	1,391	1,387	1,439	1,439	1,437	1,436	1,433	1,425	1,433	—	—
	1/3	1,485	1,536	1,565	1,588	1,586	1,584	1,580	1,578	1,570	1,578	—	—
	1/5	1,677	1,698	1,775	1,733	1,728	1,727	1,722	1,721	1,717	1,721	—	—
	1/10	1,937	1,901	2,056	1,886	1,880	1,881	1,878	1,879	1,883	1,879	—	—
	1/20	2,197	2,096	2,343	2,010	2,005	2,008	2,011	2,015	2,028	2,015	—	—
	1/30	2,349	2,208	2,517	2,071	2,070	2,074	2,082	2,088	2,106	2,087	—	—
	1/50	2,541	2,348	2,741	2,140	2,144	2,151	2,165	2,174	2,200	2,173	—	—
	1/80	2,718	2,477	2,954	2,195	2,207	2,215	2,237	2,248	2,283	2,247	—	—
	1/100	2,801	2,537	3,058	2,220	2,235	2,244	2,270	2,282	2,321	2,281	—	—
	1/150	2,954	2,648	3,250	2,260	2,283	2,295	2,328	2,343	2,388	2,341	—	—
	1/200	3,062	2,726	3,389	2,287	2,316	2,329	2,368	2,384	2,435	2,383	—	—
	1/300	3,214	2,836	3,591	2,321	2,360	2,375	2,423	2,441	2,499	2,440	—	—
	1/400	3,322	2,914	3,736	2,343	2,390	2,406	2,461	2,481	2,544	2,479	—	—
	1/500	3,406	2,974	3,851	2,359	2,412	2,429	2,490	2,511	2,579	2,509	—	—
	1/700	3,532	3,066	4,028	2,382	2,444	2,463	2,532	2,555	2,630	2,553	—	—
	1/1000	3,666	3,162	4,219	2,404	2,477	2,498	2,576	2,601	2,683	2,599	—	—
jackknife	1/2	48	48	48	60	55	55	1,708	1,402	3,324	56	—	—
error estimates	1/3	49	50	57	61	56	58	1,567	1,543	3,184	60	—	—
	1/5	56	57	81	62	61	62	1,427	1,682	3,044	64	—	—
	1/10	74	71	122	73	84	76	1,272	1,838	2,887	71	—	—
	1/20	95	87	169	99	121	103	1,142	1,971	2,752	81	—	—
	1/30	109	96	200	119	147	123	1,073	2,042	2,680	88	—	—
	1/50	127	109	240	147	181	152	995	2,126	2,596	99	—	—
	1/80	143	121	279	174	214	181	928	2,199	2,522	111	—	—
	1/100	151	126	298	187	231	196	899	2,232	2,489	117	—	—
	1/150	166	137	334	212	260	224	850	2,291	2,431	129	—	—
	1/200	177	144	361	229	282	244	817	2,332	2,391	137	—	—
	1/300	192	155	399	252	312	274	776	2,388	2,337	150	—	—
	1/400	202	162	428	269	334	296	749	2,427	2,300	160	—	—
	1/500	210	168	450	281	351	313	731	2,457	2,272	168	—	—
	1/700	223	177	485	300	376	339	706	2,501	2,231	179	—	—
	1/1000	236	186	523	319	404	367	685	2,546	2,189	192	—	—

less than 0.04(SLSC)
minimum value(SLSC)

Station code 376203

	6months rainfall series (number of sumple N=46)											
	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.989	0.995	0.996	0.996	—	0.996	0.996	0.996	0.996	0.996	—	—
P-COR(99%)	0.975	0.997	0.996	0.997	—	0.997	0.997	0.997	0.996	0.997	—	—
SLSC(99%)	0.031	0.022	0.020	0.018	—	0.020	0.025	0.023	0.022	0.023	—	—
log likelihood	-297.500	-307.000	-306.400	-306.500	—	-306.300	-306.500	-306.200	-306.000	-306.300	—	—
pAIC	598.900	618.000	616.800	619.000	—	618.500	618.900	618.400	618.000	618.600	—	—
X-COR(50%)	0.994	0.994	0.994	0.994	—	0.996	0.994	0.994	0.994	0.994	—	—
P-COR(50%)	0.994	0.994	0.994	0.994	—	0.997	0.994	0.994	0.994	0.994	—	—
SLSC(50%)	0.040	0.034	0.031	0.027	—	0.028	0.036	0.031	0.028	0.031	—	—

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	872	908	899	900	—	902	907	903	897	904	—	—
	1/3	968	1,000	986	989	—	991	997	992	987	993	—	—
	1/5	1,089	1,102	1,086	1,093	—	1,094	1,097	1,094	1,092	1,095	—	—
	1/10	1,253	1,230	1,219	1,229	—	1,227	1,223	1,225	1,230	1,225	—	—
	1/20	1,417	1,353	1,354	1,367	—	1,360	1,344	1,352	1,368	1,352	—	—
	1/30	1,513	1,424	1,434	1,449	—	1,438	1,414	1,427	1,451	1,425	—	—
	1/50	1,634	1,512	1,537	1,556	—	1,539	1,501	1,521	1,556	1,519	—	—
	1/80	1,745	1,593	1,635	1,656	—	1,634	1,582	1,609	1,656	1,605	—	—
	1/100	1,798	1,631	1,682	1,705	—	1,680	1,621	1,651	1,704	1,647	—	—
	1/150	1,894	1,701	1,769	1,796	—	1,766	1,691	1,728	1,793	1,723	—	—
	1/200	1,962	1,750	1,832	1,862	—	1,827	1,742	1,784	1,857	1,777	—	—
	1/300	2,058	1,819	1,923	1,957	—	1,917	1,813	1,863	1,950	1,855	—	—
	1/400	2,126	1,869	1,988	2,026	—	1,982	1,864	1,920	2,017	1,910	—	—
	1/500	2,179	1,907	2,040	2,081	—	2,033	1,904	1,965	2,070	1,954	—	—
	1/700	2,258	1,964	2,118	2,165	—	2,112	1,965	2,033	2,151	2,021	—	—
	1/1000	2,343	2,025	2,203	2,256	—	2,198	2,030	2,106	2,239	2,092	—	—
jackknife	1/2	26	29	28	31	—	32	30	33	25	33	—	—
error estimates	1/3	34	37	36	38	—	38	36	41	32	41	—	—
	1/5	47	49	47	47	—	48	47	50	46	50	—	—
	1/10	67	64	62	64	—	64	67	65	73	65	—	—
	1/20	88	79	78	89	—	86	94	84	110	84	—	—
	1/30	100	88	88	108	—	102	113	99	136	99	—	—
	1/50	115	100	101	137	—	125	138	120	172	119	—	—
	1/80	130	110	114	170	—	150	165	142	209	141	—	—
	1/100	137	115	120	187	—	163	178	153	227	152	—	—
	1/150	149	124	132	222	—	188	204	176	264	174	—	—
	1/200	158	131	140	250	—	207	223	193	291	191	—	—
	1/300	171	140	153	292	—	236	252	219	333	216	—	—
	1/400	180	146	162	325	—	258	273	238	364	235	—	—
	1/500	187	151	169	352	—	277	290	254	389	251	—	—
	1/700	197	159	180	396	—	306	317	278	428	275	—	—
	1/1000	208	167	192	446	—	339	347	306	473	302	—	—

less than 0.04(SLSC)
minimum value(SLSC)

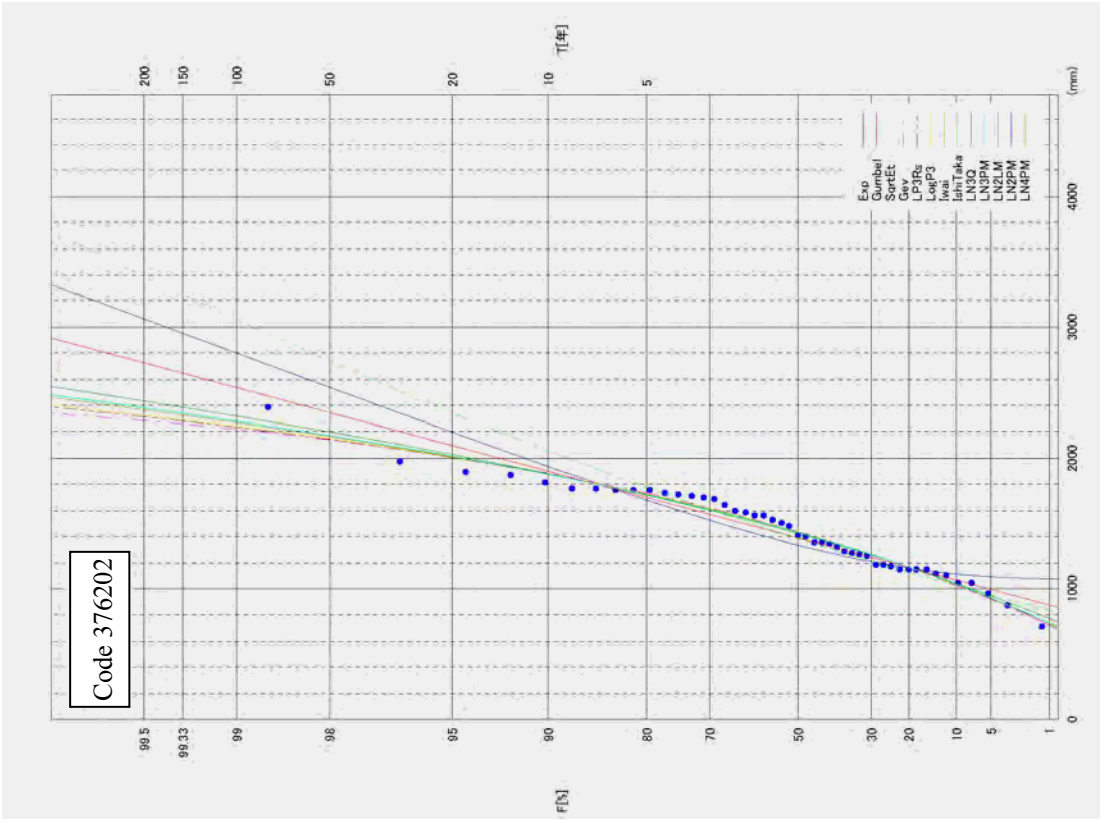


Figure C6.3.134 Probability Distribution on Gumbel Probability Paper (Station code 376202)

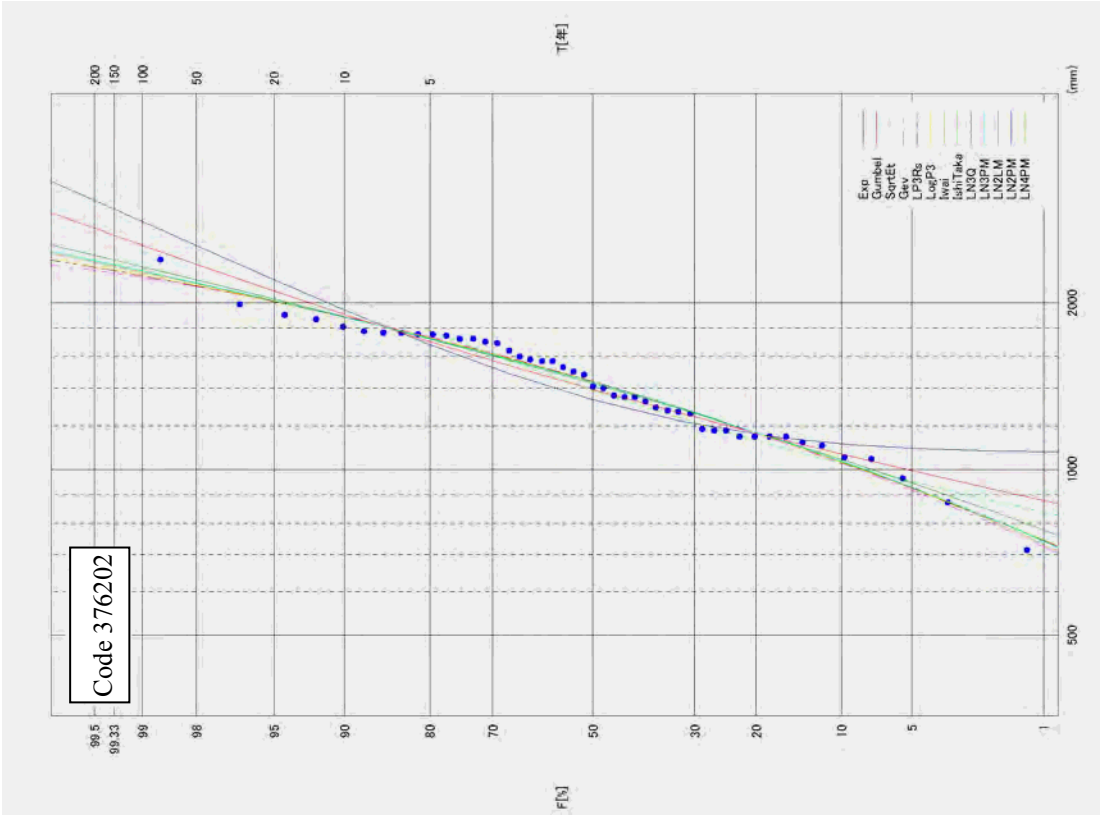


Figure C6.3.135 Probability Distribution on Log-normal Probability Paper (Station code 376202)

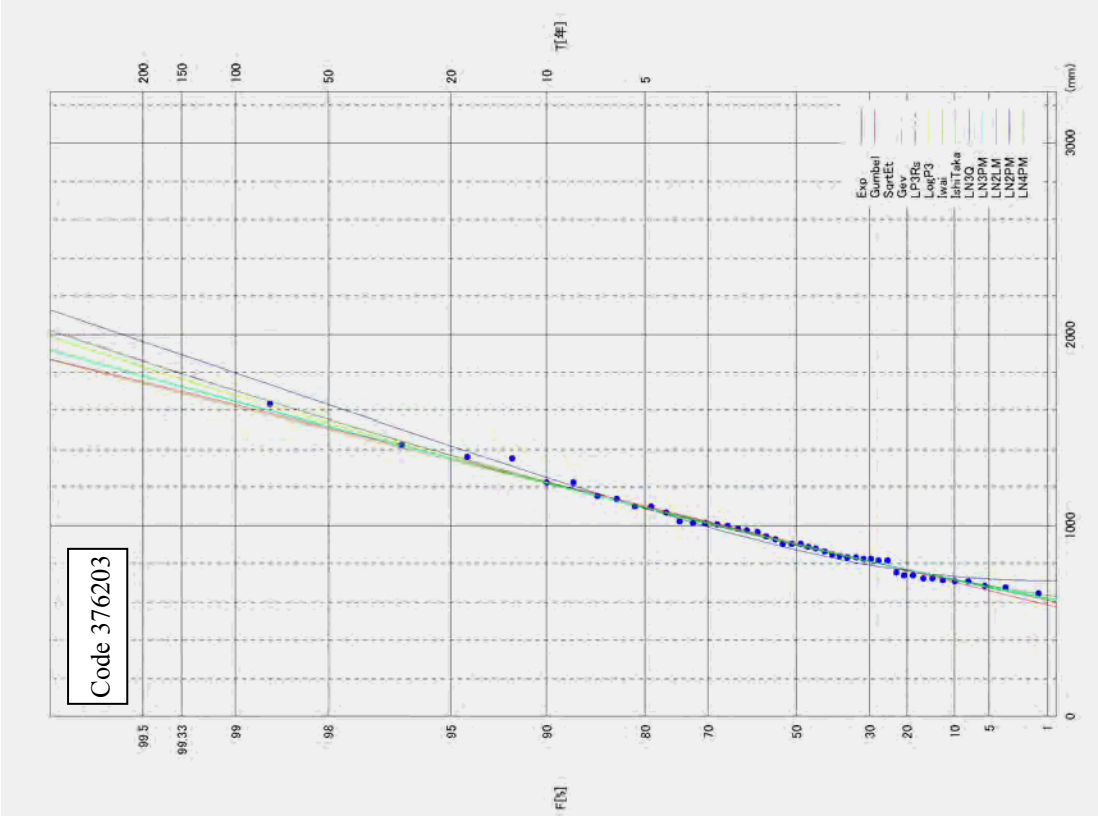


Figure C6.3.136 Probability Distribution on Gumbel Probability Paper (Station code 376203)

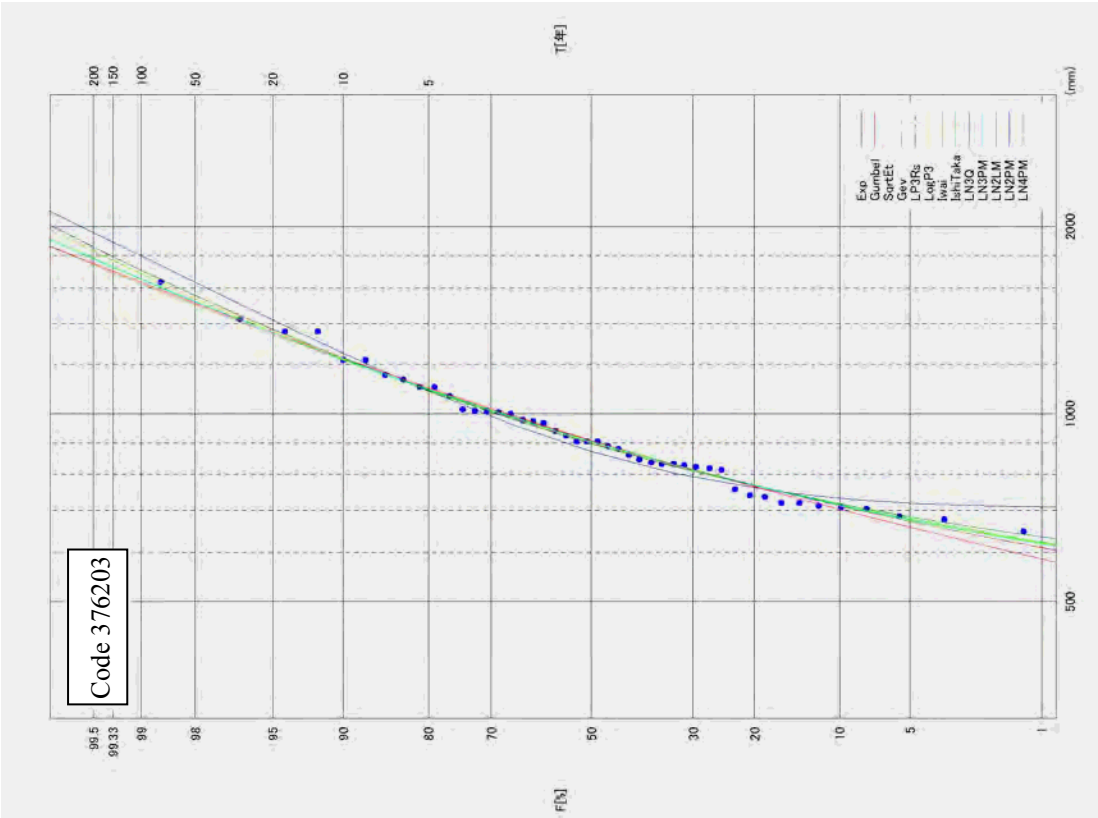


Figure C6.3.137 Probability Distribution on Log-normal Probability Paper (Station code 376203)

Table C 6.3.42 Result of Frequency Analysis of 6-Month Rainfall (33)

Station code 378201

	6months rainfall series (number of sumple N=48)											
	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extrame value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	Ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.925	0.973	0.960	0.991	0.990	—	0.989	0.990	0.990	0.990	0.987	0.988
P-COR(99%)	0.935	0.989	0.987	0.996	0.996	—	0.995	0.995	0.995	0.995	0.994	0.994
SLSC(99%)	0.078	0.046	0.054	0.028	0.035	—	0.032	0.032	0.033	0.032	0.033	0.033
log likelihood	-314.200	-327.700	-328.300	-326.300	-326.400	—	-326.600	-326.600	-326.600	-326.600	-326.700	-326.600
pAIC	632.400	659.300	660.500	658.700	658.900	—	659.200	659.300	659.200	659.300	657.400	657.200
X-COR(50%)	0.963	0.972	0.963	0.988	0.987	—	0.984	0.986	0.984	0.986	0.982	0.982
P-COR(50%)	0.989	0.989	0.990	0.992	0.992	—	0.991	0.991	0.991	0.991	0.991	0.990
SLSC(50%)	0.114	0.084	0.104	0.049	0.042	—	0.052	0.046	0.050	0.046	0.059	0.058

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	1,160	1,200	1,194	1,229	1,234	—	1,224	1,231	1,227	1,231	1,219	1,219
	1/3	1,264	1,299	1,302	1,331	1,331	—	1,322	1,328	1,323	1,328	1,320	1,318
	1/5	1,395	1,409	1,428	1,431	1,425	—	1,420	1,422	1,419	1,422	1,425	1,419
	1/10	1,572	1,548	1,593	1,540	1,527	—	1,532	1,527	1,527	1,527	1,546	1,537
	1/20	1,750	1,681	1,760	1,628	1,610	—	1,630	1,615	1,619	1,615	1,654	1,641
	1/30	1,853	1,757	1,859	1,673	1,653	—	1,682	1,662	1,669	1,662	1,713	1,699
	1/50	1,984	1,853	1,987	1,724	1,703	—	1,745	1,717	1,729	1,717	1,784	1,768
	1/80	2,105	1,940	2,107	1,766	1,746	—	1,800	1,765	1,780	1,765	1,848	1,829
	1/100	2,162	1,982	2,166	1,784	1,765	—	1,826	1,787	1,804	1,786	1,877	1,857
	1/150	2,266	2,057	2,273	1,815	1,798	—	1,871	1,825	1,846	1,825	1,929	1,907
	1/200	2,339	2,110	2,351	1,835	1,821	—	1,902	1,852	1,875	1,851	1,966	1,943
	1/300	2,443	2,185	2,462	1,862	1,851	—	1,945	1,888	1,915	1,887	2,017	1,991
	1/400	2,517	2,238	2,543	1,879	1,872	—	1,975	1,913	1,943	1,912	2,052	2,026
	1/500	2,574	2,280	2,606	1,892	1,887	—	1,998	1,932	1,964	1,931	2,079	2,052
	1/700	2,660	2,342	2,703	1,910	1,910	—	2,032	1,960	1,995	1,959	2,120	2,091
	1/1000	2,751	2,408	2,807	1,928	1,933	—	2,068	1,989	2,028	1,988	2,163	2,132
jackknife	1/2	32	32	33	40	38	—	40	38	33	38	32	32
error estimates	1/3	32	33	38	41	39	—	40	39	35	38	34	34
	1/5	37	37	46	41	40	—	39	39	38	39	39	39
	1/10	46	45	58	43	42	—	44	42	43	42	46	46
	1/20	58	53	72	51	46	—	55	46	49	46	55	54
	1/30	65	58	80	59	49	—	64	50	52	50	60	58
	1/50	75	65	91	71	56	—	77	56	56	56	67	64
	1/80	84	72	102	83	62	—	91	63	61	62	73	70
	1/100	89	75	107	90	66	—	98	66	63	66	76	73
	1/150	97	81	117	101	73	—	111	72	66	72	81	78
	1/200	103	85	124	110	78	—	120	77	69	77	85	81
	1/300	111	91	135	122	86	—	134	84	73	83	91	86
	1/400	117	95	143	131	92	—	144	89	76	88	95	90
	1/500	122	98	149	137	96	—	152	93	78	92	98	93
	1/700	129	103	158	147	103	—	165	100	81	99	102	97
	1/1000	136	108	168	158	111	—	178	106	85	105	107	102

less than 0.04(SLSC)
minimum value(SLSC)

Station code 400201

	6months rainfall series (number of sumple N=48)											
	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extrame value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	Ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.930	0.980	0.964	0.996	0.995	0.995	0.996	0.996	0.996	0.996	—	—
P-COR(99%)	0.805	0.996	0.993	0.997	0.996	0.996	0.997	0.997	0.997	0.997	—	—
SLSC(99%)	0.075	0.040	0.063	0.016	0.025	0.025	0.021	0.020	0.021	0.020	—	—
log likelihood	-310.800	-328.100	-329.000	-324.100	-324.100	-324.100	-324.100	-324.100	-324.100	-324.100	—	—
pAIC	625.600	660.300	662.000	654.200	654.200	654.200	654.300	654.300	654.200	654.300	—	—
X-COR(50%)	0.978	0.986	0.977	0.997	0.997	0.995	0.996	0.996	0.996	0.996	—	—
P-COR(50%)	0.996	0.995	0.997	0.997	0.997	0.996	0.996	0.996	0.996	0.996	—	—
SLSC(50%)	0.096	0.061	0.119	0.019	0.032	0.034	0.025	0.026	0.028	0.026	—	—

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	954	991	991	1,017	1,025	1,026	1,021	1,022	1,022	1,022	—	—
	1/3	1,051	1,084	1,108	1,111	1,118	1,118	1,112	1,113	1,112	1,113	—	—
	1/5	1,173	1,186	1,245	1,206	1,206	1,206	1,202	1,202	1,200	1,202	—	—
	1/10	1,338	1,316	1,427	1,309	1,300	1,299	1,301	1,299	1,297	1,299	—	—
	1/20	1,504	1,440	1,612	1,395	1,375	1,374	1,384	1,381	1,378	1,381	—	—
	1/30	1,601	1,511	1,724	1,438	1,414	1,412	1,428	1,425	1,421	1,424	—	—
	1/50	1,723	1,600	1,868	1,488	1,458	1,456	1,481	1,475	1,471	1,475	—	—
	1/80	1,835	1,682	2,005	1,529	1,495	1,492	1,526	1,519	1,515	1,519	—	—
	1/100	1,888	1,720	2,071	1,548	1,511	1,509	1,546	1,539	1,535	1,539	—	—
	1/150	1,985	1,790	2,194	1,579	1,540	1,537	1,582	1,574	1,569	1,574	—	—
	1/200	2,054	1,840	2,284	1,599	1,559	1,555	1,607	1,598	1,593	1,598	—	—
	1/300	2,150	1,910	2,412	1,626	1,584	1,580	1,641	1,631	1,626	1,631	—	—
	1/400	2,219	1,960	2,505	1,644	1,601	1,597	1,665	1,654	1,649	1,653	—	—
	1/500	2,272	1,998	2,578	1,657	1,614	1,610	1,683	1,671	1,666	1,671	—	—
	1/700	2,353	2,056	2,691	1,675	1,632	1,628	1,709	1,697	1,691	1,696	—	—
	1/1000	2,438	2,117	2,812	1,694	1,651	1,647	1,736	1,723	1,717	1,722	—	—
jackknife	1/2	30	30	30	33	33	33	—	999	10,625	33	—	—
error estimates	1/3	31	32	34	36	36	35	—	1,088	10,538	35	—	—
	1/5	36	37	47	39	38	38	—	1,175	10,454	38	—	—
	1/10	48	46	71	45	43	45	—	1,270	10,362	42	—	—
	1/20	62	56	99	55	52	56	—	1,350	10,287	49	—	—
	1/30	71	63	116	63	59	65	—	1,392	10,248	53	—	—
	1/50	83	71	140	76	69	78	—	1,441	10,202	60	—	—
	1/80	94	79	163	89	80	92	—	1,484	10,164	67	—	—
	1/100	100	83	174	96	85	98	—	1,503	10,147	71	—	—
	1/150	109	90	196	109	96	111	—	1,537	10,117	78	—	—
	1/200	116	95	211	118	104	121	—	1,561	10,097	83	—	—
	1/300	126	102	234	132	115	135	—	1,593	10,070	91	—	—
	1/400	133	107	251	141	124	145	—	1,615	10,052	96	—	—
	1/500	139	111	264	149	130	153	—	1,631	10,038	101	—	—
	1/700	147	117	284	160	141	165	—	1,656	10,019	108	—	—
	1/1000	156	123	307	172	152	178	—	1,682	9,999	115	—	—

less than 0.04(SLSC)
minimum value(SLSC)

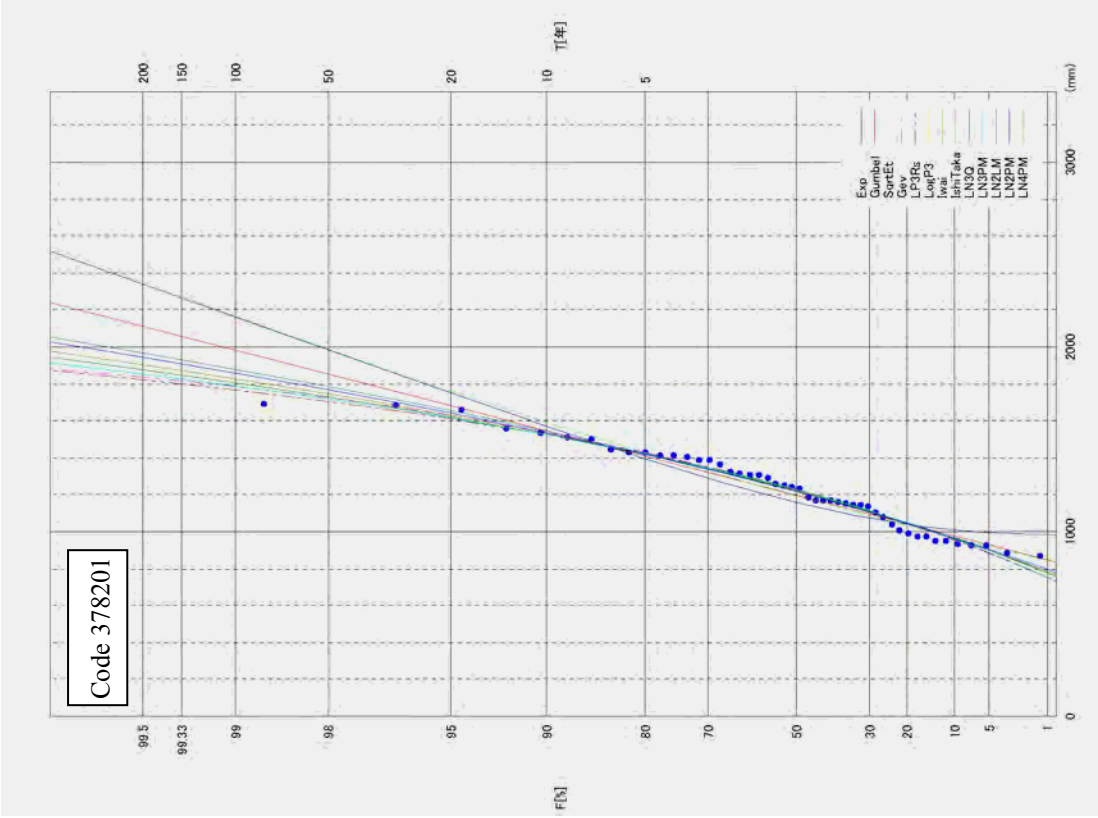


Figure C6.3.138 Probability Distribution on Gumbel Probability Paper (Station code 378201)

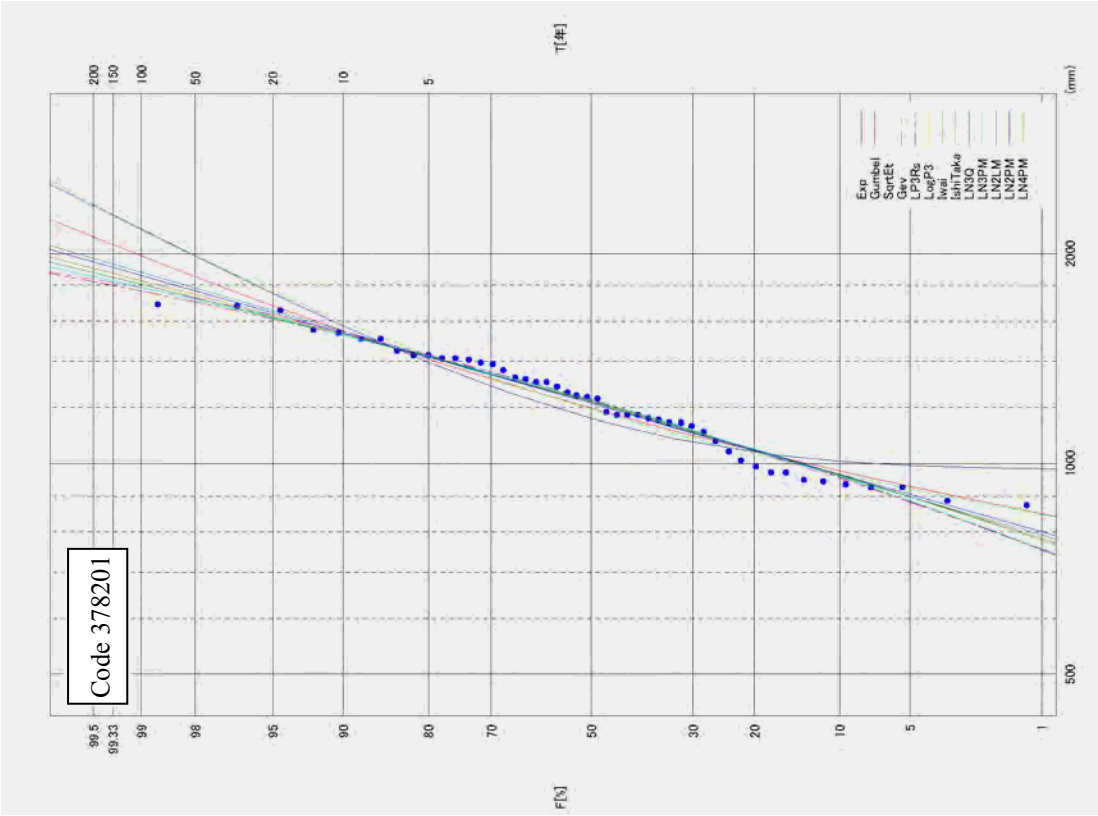


Figure C6.3.139 Probability Distribution on Log-normal Probability Paper (Station code 378201)

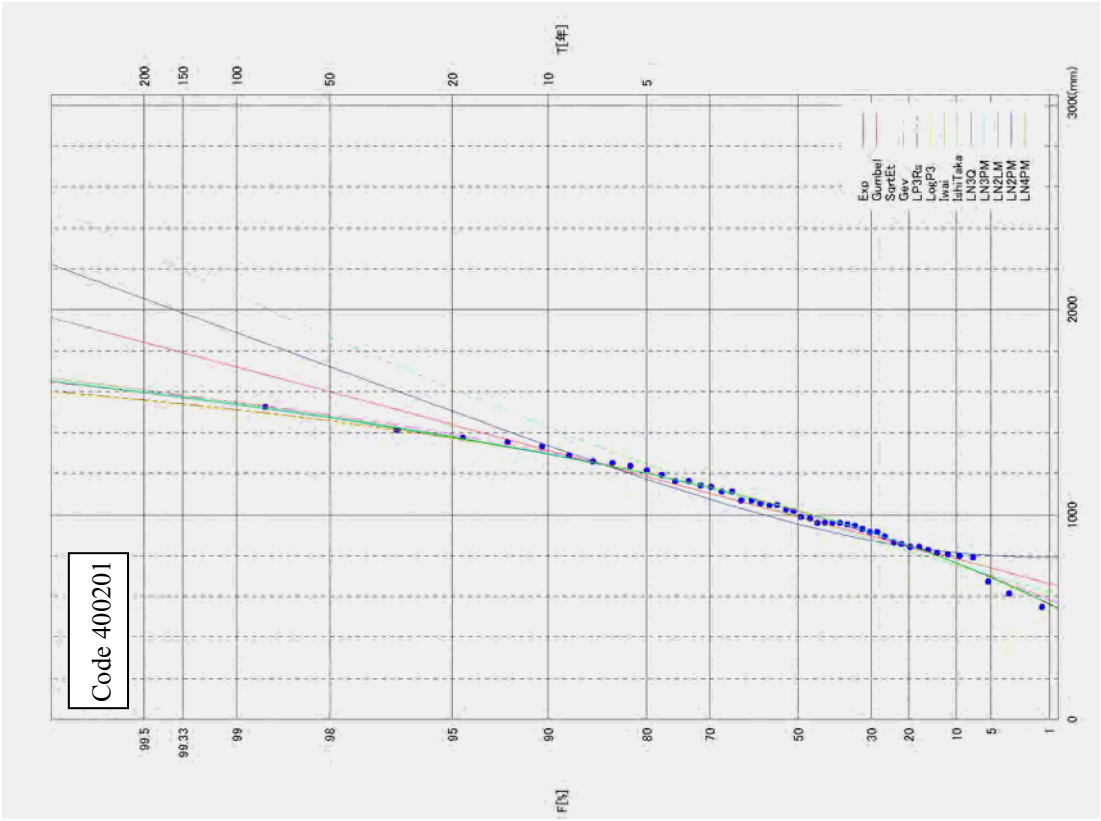


Figure C6.3.140 Probability Distribution on Gumbel Probability Paper (Station code 400201)

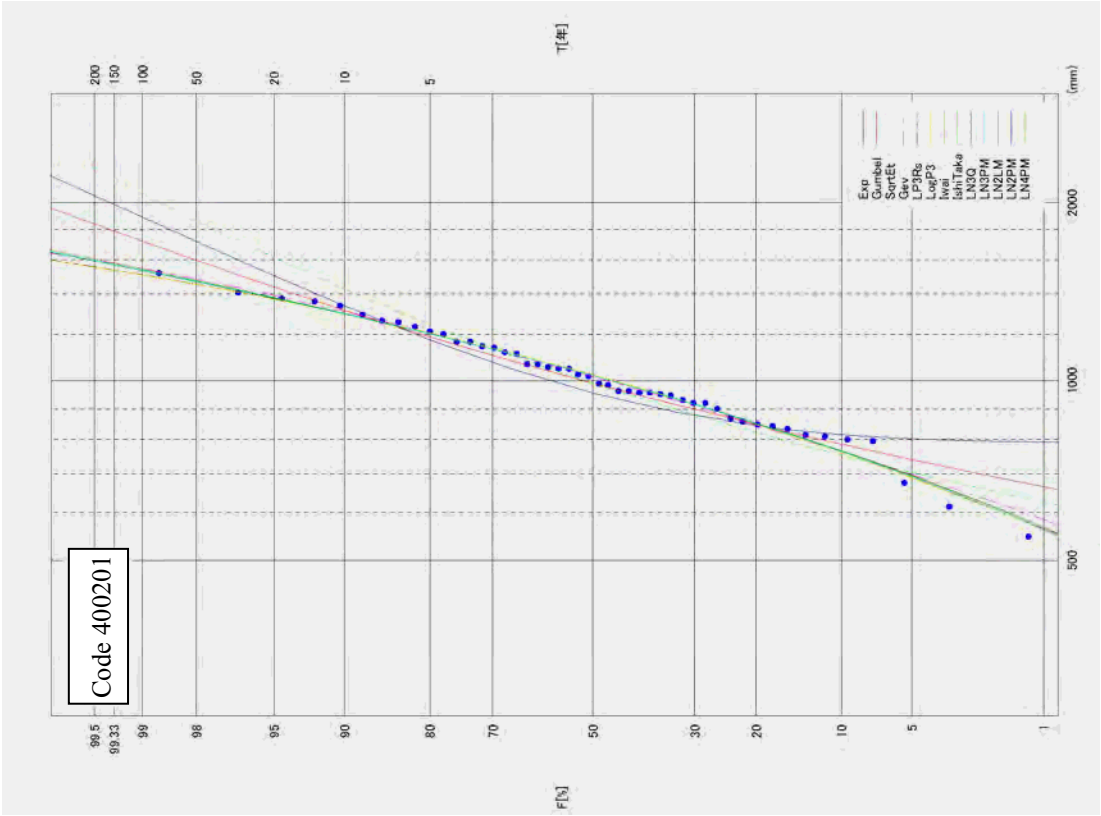


Figure C6.3.141 Probability Distribution on Log-normal Probability Paper (Station code 400201)

Table C 6.3.43 Result of Frequency Analysis of 6-Month Rainfall (34)

Station code 450201

	6months rainfall series (number of sumple N=47)											
	Exponential distribution	Gumbel Distribution	squre-root expotential type maximum distribution	extreme value distribution	Peason type III distribution(real-space)	Peason type III distribution	log-nomal distribution				two-parameter log-nomal distribution	
							Iwai	ishihara・takase	quantile	product moment	L-moments	product moment
	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
X-COR(99%)	0.950	0.989	0.980	0.996	0.996	—	0.996	0.996	0.996	0.996	0.996	0.996
P-COR(99%)	0.883	0.994	0.992	0.997	0.997	—	0.997	0.997	0.997	0.997	0.997	0.997
SLSC(99%)	0.064	0.029	0.045	0.021	0.018	—	0.019	0.018	0.019	0.018	0.018	0.019
log likelihood	-294.700	-308.600	-309.500	-307.300	-307.300	—	-307.400	-307.300	-307.300	-307.300	-307.400	-307.400
pAIC	593.400	621.300	622.900	620.600	620.700	—	620.800	620.700	620.700	620.700	618.700	618.700
X-COR(50%)	0.982	0.987	0.983	0.991	0.991	—	0.991	0.991	0.991	0.991	0.991	0.991
P-COR(50%)	0.992	0.991	0.992	0.991	0.991	—	0.991	0.991	0.991	0.991	0.991	0.991
SLSC(50%)	0.079	0.044	0.082	0.039	0.044	—	0.045	0.039	0.038	0.039	0.036	0.036

Probable Value	return period (year)	Exp	Gumbel	SqrtEt	Gev	LP3Rs	LogP3	Iwai	IshiTaka	LN3Q	LN3PM	LN2LM	LN2PM
	1/2	851	881	879	897	900	—	901	897	896	898	895	895
	1/3	930	957	964	974	976	—	976	973	971	973	972	971
	1/5	1,029	1,040	1,064	1,053	1,052	—	1,051	1,049	1,048	1,049	1,051	1,050
	1/10	1,164	1,146	1,196	1,142	1,137	—	1,135	1,137	1,136	1,137	1,143	1,141
	1/20	1,299	1,247	1,329	1,219	1,211	—	1,208	1,214	1,215	1,214	1,225	1,222
	1/30	1,378	1,305	1,409	1,259	1,250	—	1,247	1,256	1,257	1,255	1,270	1,266
	1/50	1,477	1,377	1,511	1,306	1,297	—	1,293	1,306	1,309	1,306	1,325	1,320
	1/80	1,569	1,444	1,608	1,346	1,338	—	1,334	1,351	1,354	1,350	1,373	1,368
	1/100	1,612	1,475	1,655	1,364	1,357	—	1,353	1,371	1,375	1,370	1,395	1,390
	1/150	1,691	1,533	1,741	1,395	1,391	—	1,386	1,408	1,413	1,406	1,436	1,429
	1/200	1,747	1,573	1,804	1,416	1,413	—	1,408	1,433	1,439	1,432	1,464	1,457
	1/300	1,826	1,630	1,894	1,444	1,445	—	1,440	1,468	1,475	1,466	1,502	1,495
	1/400	1,882	1,671	1,959	1,462	1,467	—	1,462	1,493	1,501	1,491	1,530	1,522
	1/500	1,925	1,702	2,010	1,476	1,483	—	1,478	1,512	1,520	1,509	1,550	1,542
	1/700	1,991	1,749	2,088	1,496	1,508	—	1,503	1,540	1,549	1,537	1,582	1,573
	1/1000	2,060	1,799	2,172	1,516	1,534	—	1,529	1,569	1,579	1,566	1,615	1,606
jackknife	1/2	24	24	25	26	27	—	29	27	24	27	25	25
error estimates	1/3	26	27	28	29	29	—	31	29	25	29	28	27
	1/5	32	32	35	33	33	—	34	33	31	33	33	32
	1/10	43	41	48	42	41	—	39	41	46	41	42	41
	1/20	56	51	63	55	53	—	46	53	65	53	51	49
	1/30	64	56	72	64	61	—	51	61	77	61	57	54
	1/50	74	64	84	76	73	—	58	72	94	72	64	61
	1/80	84	71	97	89	85	—	65	83	111	83	71	67
	1/100	88	74	103	96	91	—	69	89	119	88	74	70
	1/150	97	80	114	108	102	—	76	99	134	98	80	76
	1/200	103	84	122	117	110	—	81	107	145	106	84	80
	1/300	111	90	134	129	122	—	88	118	160	116	90	85
	1/400	117	95	143	138	131	—	93	126	172	124	94	89
	1/500	122	98	150	146	138	—	98	133	181	131	97	92
	1/700	129	103	160	157	149	—	104	143	195	140	102	97
	1/1000	137	108	172	168	161	—	111	153	210	151	108	102

less than 0.04(SLSC)
minimum value(SLSC)

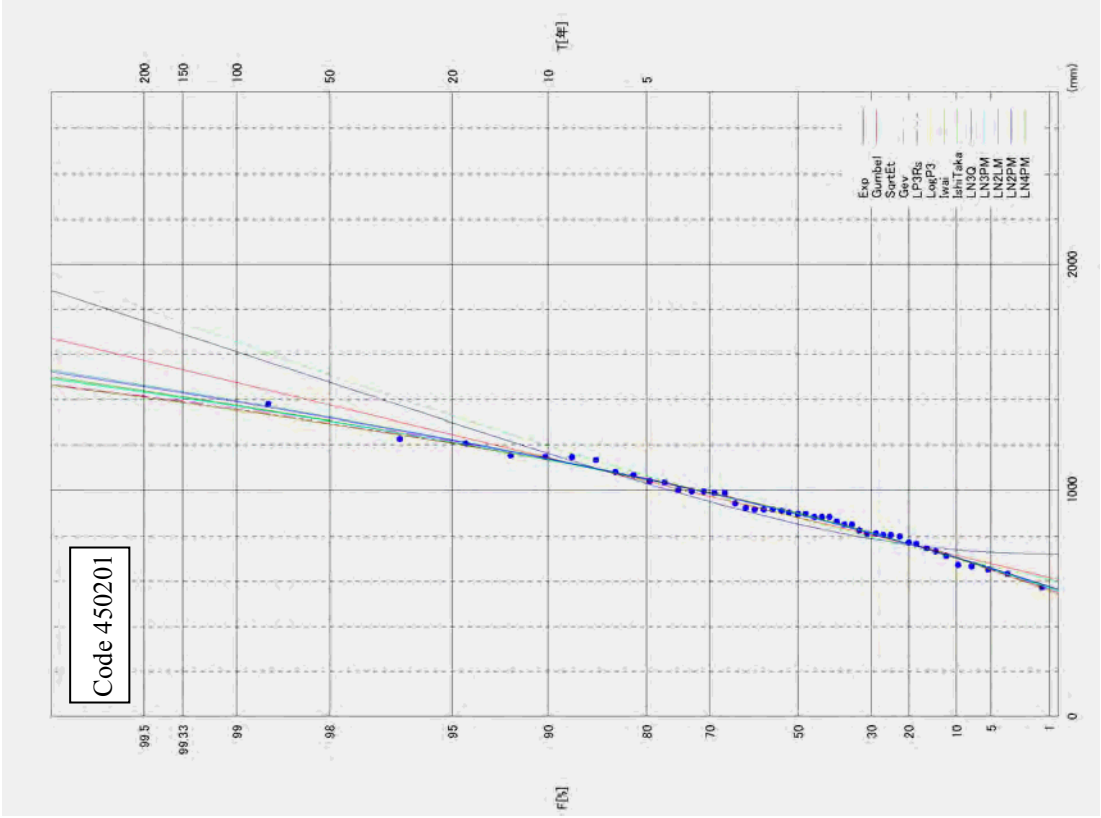


Figure C6.3.142 Probability Distribution on Gumbel Probability Paper (Station code 450201)

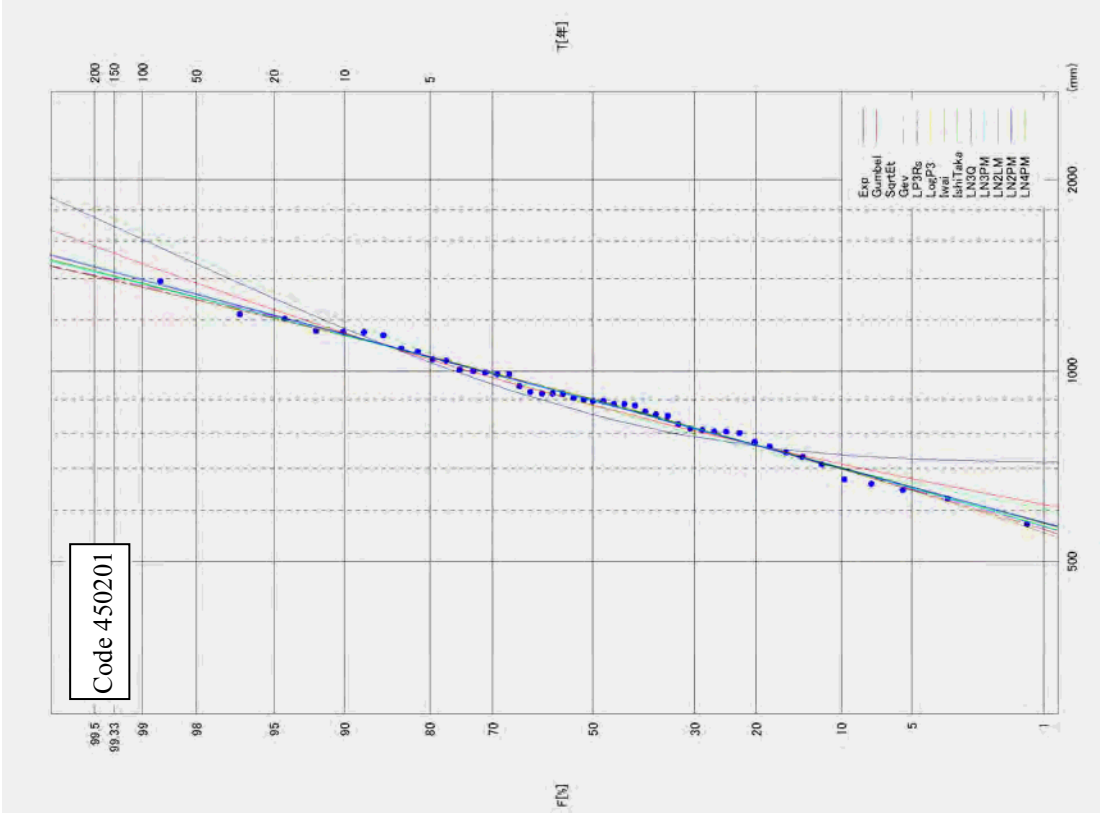


Figure C6.3.143 Probability Distribution on Log-normal Probability Paper (Station code 450201)

(d) Enlarged 6-Month Rainfalls of Target Stations

For the screening of the enlarged 6-month rainfalls of the 67 stations, 6 years except 1963 passed the enlargement rate screen. Enlarged 6-Month Rainfalls of these 6 years and 2011 are presented in the following table.

Table C6.3.44 Enlarged 6-Month Rainfalls of Target Stations

		Enlarged 6-Month Rainfall (mm)							
No	code	1963	1970	1975	1980	1994	1995	2006	2011
1	7341	-	1,405	1,961	1,281	1,407	1,452	1,427	1,515
2	7430	1,662	1,682	957	-	-	-	-	-
3	7480	1,750	1,653	1,374	1,160	1,402	-	-	-
4	39101	-	1,541	1,684	2,018	2,035	1,948	1,726	-
5	59121	-	1,231	1,844	1,807	1,224	1,674	1,704	1,485
6	59131	-	1,428	1,658	2,204	1,385	2,103	1,982	-
7	70151	-	2,048	1,550	1,680	1,452	1,579	1,617	1,340
8	7013	1,195	1,693	1,604	1,207	1,388	1,267	1,592	1,348
9	7042	1,348	1,713	1,152	-	1,416	1,279	713	-
10	7052	1,364	1,623	-	-	1,191	1,181	-	-
11	7062	1,478	1,524	1,261	1,076	-	1,053	-	-
12	7072	1,270	1,457	1,423	1,312	932	1,013	-	-
13	7082	1,172	1,213	-	-	910	1,172	-	-
14	7092	1,048	1,101	1,271	1,067	966	855	-	-
15	7112	1,509	1,577	1,486	974	1,493	1,630	-	-
16	7122	1,341	1,539	1,585	1,125	1,695	1,238	1,268	1,047
17	7132	2,099	2,081	-	-	1,464	1,649	1,335	-
18	7142	2,386	1,719	1,624	1,164	2,664	1,604	-	-
19	7152	-	1,169	980	1,014	398	-	-	-
20	7162	-	909	1,610	1,401	1,122	1,174	1,070	-
21	7182	-	1,107	1,070	1,017	1,074	1,163	1,151	1,141
22	7242	1,860	1,925	1,955	1,773	2,099	1,896	-	1,917
23	7252	-	1,972	-	1,683	1,707	1,906	1,749	1,757
24	7282	-	1,499	1,241	1,600	1,154	-	1,490	1,247
25	7292	1,105	1,203	1,636	1,108	1,085	1,231	1,256	-
26	16013	1,151	1,558	1,562	991	1,620	1,043	1,503	1,745
27	16022	-	1,169	970	1,015	1,583	1,485	1,274	-
28	16032	-	1,305	1,479	1,079	1,954	2,301	-	-
29	16042	1,164	1,018	1,388	1,257	1,571	1,228	-	1,059
30	16052	1,257	1,257	1,516	1,066	-	824	1,479	1,361
31	16062	1,400	1,775	1,850	987	1,237	889	-	-
32	16072	928	1,066	1,291	1,434	1,111	1,006	-	1,256
33	16082	1,166	1,097	-	1,836	938	1,075	1,572	998
34	16092	1,475	1,453	1,492	1,357	1,562	1,085	1,326	-
35	16102	1,385	1,544	1,627	1,301	-	1,285	1,249	-
36	16112	1,331	1,083	1,571	1,174	1,738	1,487	1,443	-
37	17012	968	1,293	1,391	-	1,254	611	1,185	1,533
38	17032	-	1,273	1,348	1,205	1,068	969	1,084	1,191
39	17042	1,475	1,393	1,492	1,033	1,480	1,293	-	-
40	17052	941	-	1,275	1,341	1,098	951	-	-
41	17062	1,314	1,036	1,115	979	1,151	1,090	-	843
42	28022	1,334	1,318	1,928	1,446	1,570	1,560	-	1,336
43	28032	976	1,512	1,239	-	1,456	1,275	1,366	-
44	28042	1,407	1,617	1,517	-	1,920	1,761	-	-
45	28053	2,161	1,973	1,727	1,900	2,101	2,279	-	2,148
46	28073	-	1,852	2,063	1,815	1,662	2,062	1,431	-
47	40013	1,254	1,698	1,325	1,048	1,485	1,324	1,475	1,417
48	40022	1,096	1,892	1,423	1,010	1,663	-	1,578	-
49	40032	1,678	-	1,229	1,170	1,395	-	-	1,333
50	40052	1,926	1,345	1,440	954	-	-	-	-
51	40062	1,539	-	1,447	1,140	1,911	-	2,760	2,380
52	40082	1,532	1,450	1,092	771	-	-	-	-
53	73032	-	1,584	1,387	1,445	1,574	1,497	1,119	-
54	300201	-	1,396	1,439	1,169	-	-	-	-
55	300202	1,469	1,708	1,269	1,721	1,484	1,239	1,016	1,401
56	303201	-	-	-	-	-	-	-	-
57	327501	1,202	1,693	1,604	1,248	1,387	1,267	1,592	1,348
58	328201	1,166	1,559	1,562	948	1,620	1,043	1,503	1,745
59	330201	1,310	1,700	1,325	1,055	1,485	1,346	1,475	1,417
60	331201	1,632	1,524	1,641	1,647	1,562	1,510	1,231	1,815
61	331401	-	1,863	2,063	1,808	1,662	2,062	1,431	1,774
62	351201	1,654	2,306	1,809	1,703	1,721	1,899	2,372	1,909
63	376201	1,398	1,238	1,212	1,399	972	1,037	1,367	1,216
64	376202	2,105	1,482	1,400	-	-	-	-	1,898
65	376203	1,207	1,061	1,097	1,304	958	967	1,763	1,013
66	378201	1,702	1,766	1,665	1,997	1,500	1,830	1,497	1,679
67	400201	1,438	1,451	1,216	1,374	939	1,516	1,228	1,378
Actual 6-Month Rainfall of Upper Basin		1,235	1,266	1,254	1,255	1,313	1,262	1,375	1,483
Enlargement Rate		1.201	1.172	1.183	1.181	1.130	1.175	1.078	1.000

-: Not used for estimation of basin-mean rainfall due to data lacking, etc.

(e) Thiessen Polygon Areas Greater than 500-year and 1,000-year Rainfall

Occupation areas of Thiessen polygons of which enlarged rainfalls are greater than 500-year and /or 1,000-year rainfalls are arranged for the 8 years as presented in Table C6.3.45 and Table C6.3.46, and then shown in Figure C6.3.144, Figure C6.3.145 and Figure C6.3.146.

Table C6.3.45 Stations of Which Rainfalls are Greater Than 500-year Rainfall

Item	Selection of Used Probability Model	1963	1970	1975	1980	1994	1995	2006	2011
Number of Stations of which rainfalls are greater than 500-year rainfall.	①Minimum SLSC	3	9	5	4	5	5	0	1
	②Minimum Error by Jackknife	4	10	4	3	5	3	0	1
	③Minimum Rainfall	6	13	8	7	5	7	0	2
Total Thiessen polygon area of stations of which rainfalls are greater than 500-year rainfall (km^2)	①Minimum SLSC	2,990	6,030	1,504	5,044	4,000	2,189	0	2,301
	②Minimum Error by Jackknife	3,848	2,745	1,297	4,102	4,000	1,565	0	2,301
	③Minimum Rainfall	6,347	8,343	4,956	7,145	4,000	3,159	0	2,819
Percentage of total Thiessen polygon area of stations of which rainfalls are greater than 500-year Rainfall of total area for frequency analysis (%)	①Minimum SLSC	2.9	5.8	1.4	4.8	3.8	2.1	0.0	2.2
	②Minimum Error by Jackknife	3.7	2.6	1.2	3.9	3.8	1.5	0.0	2.2
	③Minimum Rainfall	6.1	8.0	4.8	6.9	3.8	3.0	0.0	2.7
Percentage of total Thiessen polygon area of stations of which rainfalls are greater than 500-year Rainfall of Upper Basin(%)	①Minimum SLSC	3.2	7.5	2.5	10.2	8.3	4.6	0.0	4.0
	②Minimum Error by Jackknife	4.1	3.4	2.2	8.3	8.3	3.3	0.0	4.0
	③Minimum Rainfall	6.7	10.4	8.4	14.4	8.3	6.6	0.0	4.8
Total area of Thiessen polygon areas of which stations are not subject to Frequency Analysis (km2)		9,375	23,883	44,949	54,584	55,594	56,394	51,861	45,891
Total area of Thiessen polygon areas of which stations are subject to Frequency Analysis (km^2)		94,685	80,177	59,110	49,476	48,466	47,665	52,199	58,168

Table C6.3.46 Stations of Which Rainfalls are Greater Than 1,000-year Rainfall

Item	Selection of Used Probability Model	1963	1970	1975	1980	1994	1995	2006	2011
Number of Stations of which rainfalls are greater than 1,000-year rainfall.	①Minimum SLSC	2	7	5	3	4	3	0	1
	②Minimum Error by Jackknife	3	8	2	1	5	1	0	1
	③Minimum Rainfall	4	10	7	6	5	3	0	2
Total Thiessen polygon area of stations of which rainfalls are greater than 1,000-year rainfall (km^2)	①Minimum SLSC	2,931	1,433	1,504	4,102	2,390	2,063	0	2,301
	②Minimum Error by Jackknife	3,788	2,322	812	71	4,000	1,258	0	2,301
	③Minimum Rainfall	3,931	6,919	4,111	6,365	4,000	2,063	0	2,819
Percentage of total Thiessen polygon area of stations of which rainfalls are greater than 1,000-year Rainfall of total area for frequency analysis (%)	①Minimum SLSC	2.8	1.4	1.4	3.9	2.3	2.0	0.0	2.2
	②Minimum Error by Jackknife	3.6	2.2	0.8	0.1	3.8	1.2	0.0	2.2
	③Minimum Rainfall	3.8	6.6	4.0	6.1	3.8	2.0	0.0	2.7
Percentage of total Thiessen polygon area of stations of which rainfalls are greater than 1,000-year Rainfall of Upper Basin (%)	①Minimum SLSC	3.1	1.8	2.5	8.3	4.9	4.3	0.0	4.0
	②Minimum Error by Jackknife	4.0	2.9	1.4	0.1	8.3	2.6	0.0	4.0
	③Minimum Rainfall	4.2	8.6	7.0	12.9	8.3	4.3	0.0	4.8
Total area of Thiessen polygon areas of which stations are not subject to Frequency Analysis (km2)		9,375	23,883	44,949	54,584	55,594	56,394	51,861	45,891
Total area of Thiessen polygon areas of which stations are subject to Frequency Analysis (km^2)		94,685	80,177	59,110	49,476	48,466	47,665	52,199	58,168

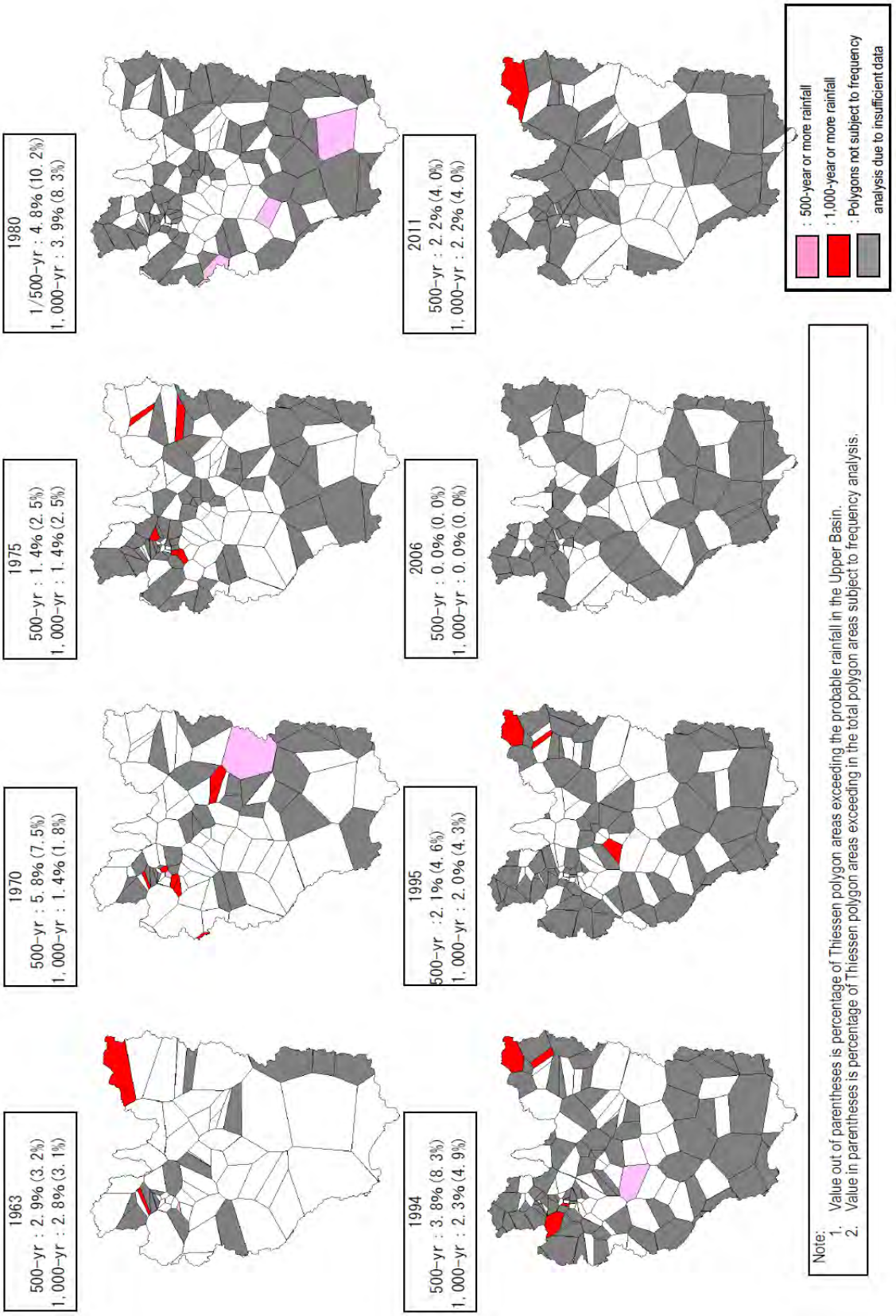


Figure C6.3.144 Thiessen Polygon Areas Exceeding 500- and/or 1,000-yaer Rainfall in Upper Basin (Probability Model : Minimum SLSC)

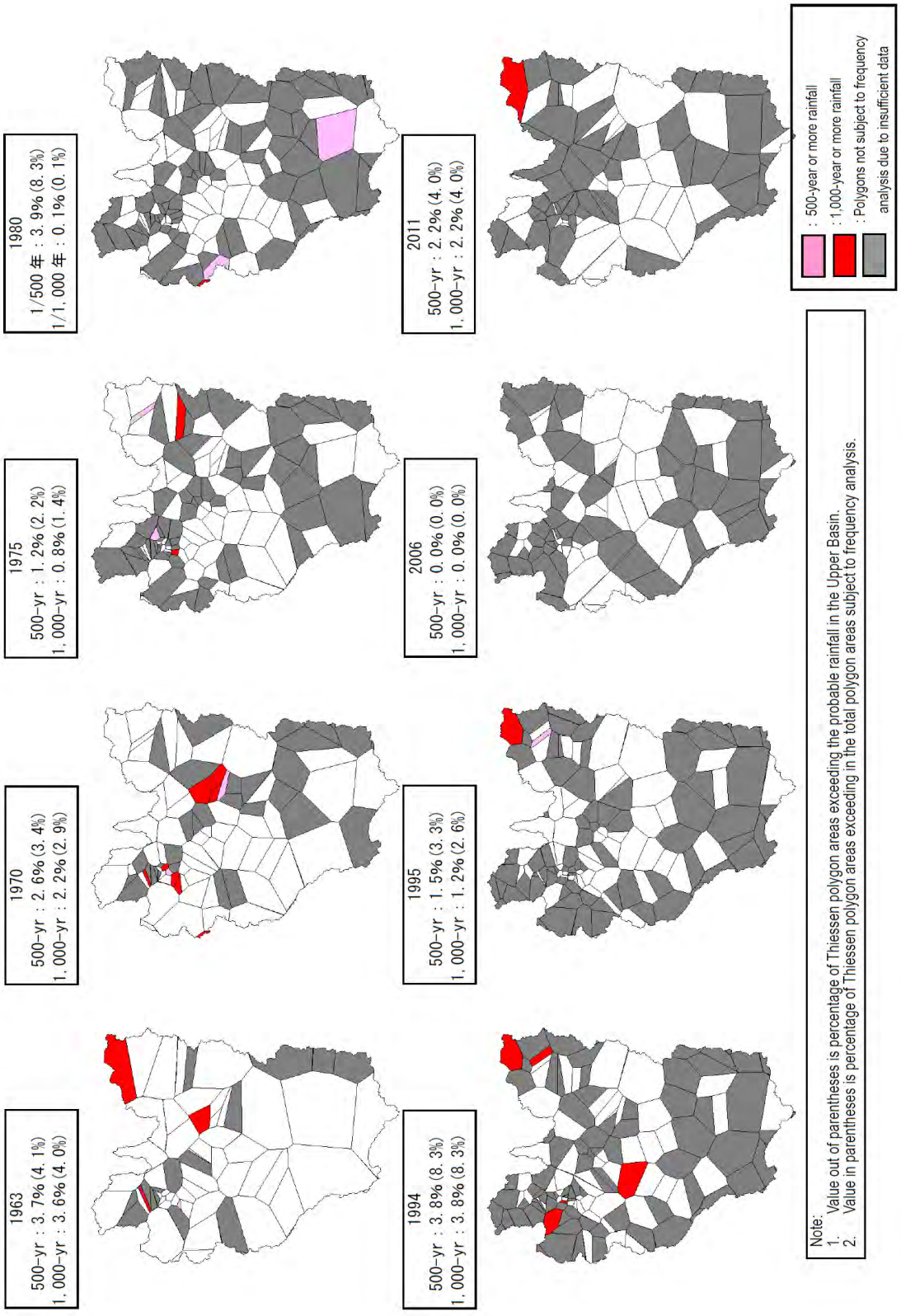


Figure C6.3.145 Thiessen Polygon Areas Exceeding 500- and/or 1,000-yaer Rainfall in Upper Basin (Probability Model : Minimum Error by Jackknife)

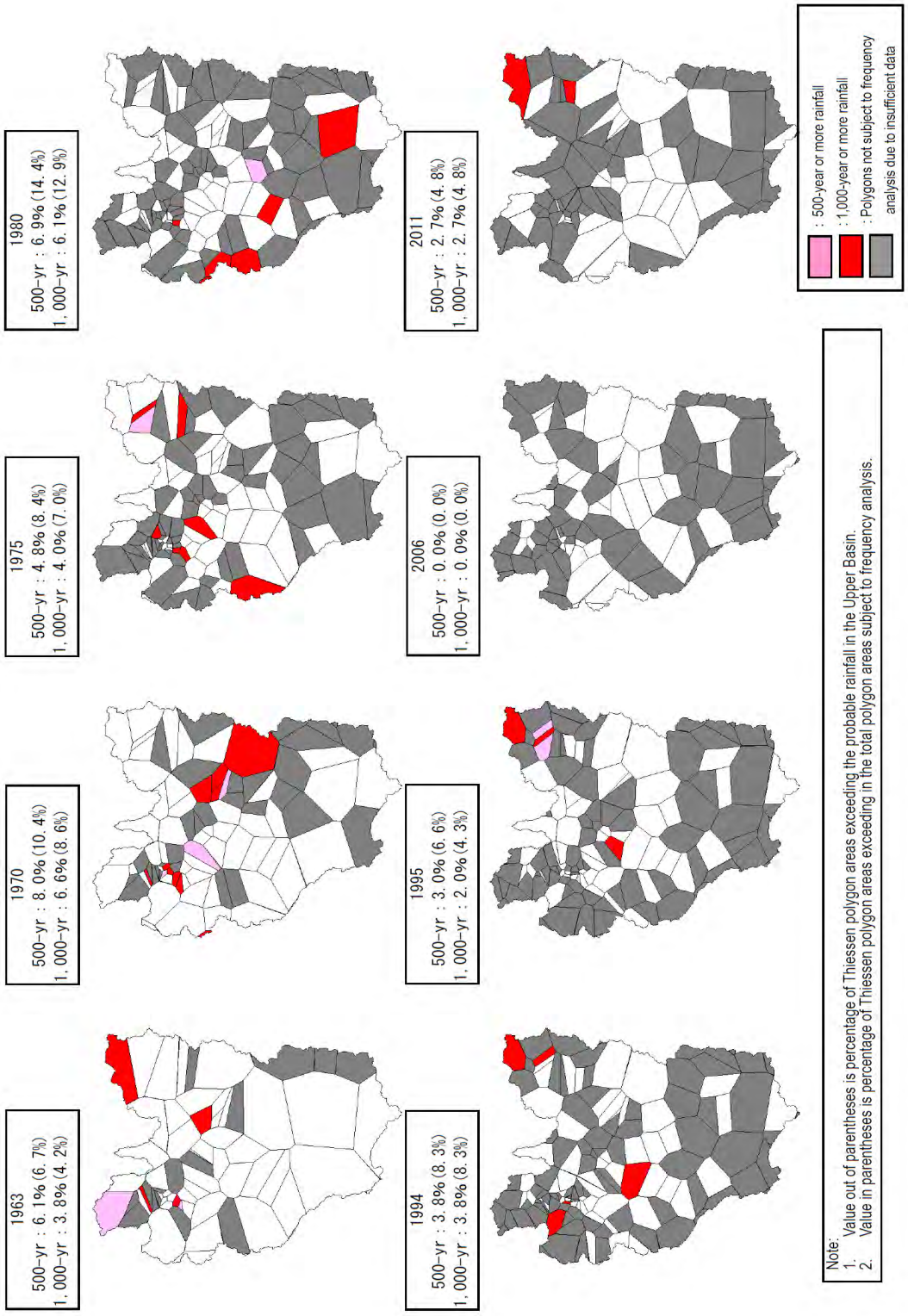


Figure C6.3.146 Thiessen Polygon Areas Exceeding 500- and/or 1,000-yaer Rainfall in Upper Basin (Probability Model : Minimum Rainfall)

(f) Finding

According to Figure C6.3.144, Figure C6.3.145 and Figure C6.3.146, three years of 1970, 1980 and 1994 have more Thiessen polygon areas of greater than 500-year rainfalls.

Table C6.3.47 Selection of Target Flood Patterns after Rejection due to Spatial Distribution

year	6-month rainfall of Upper Basin (1,483mm)				1-month Rainfall		2-month Rainfall		3-month Rainfall		Temporal Distribution	Comprehensive Judgement	Reason for Rejection	Modified Discharge at C.2 Nakhon Sawan without Dam	
	2011Actual 1,483 (mm)				500-year Rainfall(mm)	429	500-year Rainfall(mm)	728	500-year Rainfall(mm)	926					
	Actual (mm)	Enlargement Rate	Judgement	Ranking	Actual (mm)	Enlarged (mm)	Actual (mm)	Enlarged (mm)	Actual (mm)	Enlarged (mm)	500-year Rainfall			Maximum Discharge (m^3/s)	Total Annual Runoff Volume (MCM)
1961	1,208	1.228	Greater than 1.2	11	342	419	566	695	724	889	○	Rejected	Enlargement Rate	4,712	33,006
1962	1,117	1.328	Greater than 1.2	22	325	431	541	718	731	970	Rejected	Rejected	Enlargement Rate	3,812	24,096
1963	1,235	1.201	Greater than 1.2	8	312	375	531	637	771	926	Rejected	Rejected	Enlargement Rate	2,935	23,717
1964	1,163	1.275	Greater than 1.2	19	313	399	512	653	658	839	○	Rejected	Enlargement Rate	5,170	30,419
1965	979	1.514	Greater than 1.2	36	304	460	460	696	598	905	Rejected	Rejected	Enlargement Rate	2,004	18,657
1966	1,065	1.392	Greater than 1.2	31	279	388	462	643	562	783	○	Rejected	Enlargement Rate	3,919	24,115
1967	974	1.522	Greater than 1.2	40	329	501	496	754	616	937	Rejected	Rejected	Enlargement Rate	4,200	18,446
1968	911	1.628	Greater than 1.2	46	209	341	360	587	506	824	○	Rejected	Enlargement Rate	1,842	12,963
1969	1,055	1.406	Greater than 1.2	33	300	422	505	710	652	917	○	Rejected	Enlargement Rate	4,300	23,212
1970	1,266	1.171	○	4	335	393	561	658	733	858	○	○	Area Percentage of 500-year or more rainfall: 5.8% *2	5,830	38,524
1971	1,144	1.296	Greater than 1.2	20	305	396	501	649	692	897	○	Rejected	Enlargement Rate	3,356	25,320
1972	888	1.669	Greater than 1.2	48	234	391	409	682	555	927	Rejected	Rejected	Enlargement Rate	2,000	14,596
1973	1,207	1.228	Greater than 1.2	12	322	395	579	711	754	927	Rejected	Rejected	Enlargement Rate	4,539	24,164
1974	1,058	1.402	Greater than 1.2	32	273	382	497	697	660	925	○	Rejected	Enlargement Rate	2,672	22,551
1975	1,254	1.183	○	7	340	403	557	659	766	907	○	○	○	5,535	40,180
1976	1,174	1.263	Greater than 1.2	16	286	361	554	700	726	916	○	Rejected	Enlargement Rate	4,285	28,786
1977	948	1.564	Greater than 1.2	42	321	502	491	768	638	999	Rejected	Rejected	Enlargement Rate	3,532	18,486
1978	1,214	1.222	Greater than 1.2	10	298	364	522	638	784	958	Rejected	Rejected	Enlargement Rate	4,700	34,990
1979	949	1.563	Greater than 1.2	41	271	424	388	606	537	839	○	Rejected	Enlargement Rate	1,784	13,013
1980	1,255	1.181	○	6	326	385	565	667	739	873	○	○	Area Percentage of 500-year or more rainfall: 4.8% *2	5,839	35,623
1981	1,083	1.369	Greater than 1.2	30	276	377	446	610	681	932	Rejected	Rejected	Enlargement Rate	3,943	27,166
1982	938	1.580	Greater than 1.2	45	292	461	458	723	555	877	Rejected	Rejected	Enlargement Rate	3,362	19,236
1983	1,099	1.349	Greater than 1.2	24	245	330	481	649	675	911	○	Rejected	Enlargement Rate	3,763	25,294
1984	1,015	1.461	Greater than 1.2	35	236	346	400	584	547	800	○	Rejected	Enlargement Rate	2,442	19,200
1985	1,093	1.357	Greater than 1.2	26	245	333	445	604	604	819	○	Rejected	Enlargement Rate	3,068	26,208
1986	1,001	1.481	Greater than 1.2	36	251	372	409	606	531	786	○	Rejected	Enlargement Rate	2,251	16,839
1987	975	1.520	Greater than 1.2	39	316	480	533	810	626	951	Rejected	Rejected	Enlargement Rate	3,109	16,605
1988	1,166	1.271	Greater than 1.2	17	255	324	434	552	625	795	○	Rejected	Enlargement Rate	3,980	23,528
1989	1,024	1.448	Greater than 1.2	34	268	388	397	575	531	769	○	Rejected	Enlargement Rate	2,347	15,325
1990	983	1.508	Greater than 1.2	37	273	411	382	576	510	768	○	Rejected	Enlargement Rate	1,688	14,909
1991	906	1.637	Greater than 1.2	47	275	450	430	704	563	921	Rejected	Rejected	Enlargement Rate	2,602	15,308
1992	947	1.566	Greater than 1.2	44	274	428	460	721	668	1,045	Rejected	Rejected	Enlargement Rate	2,343	13,691
1993	842	1.761	Greater than 1.2	51	274	482	405	713	526	926	Rejected	Rejected	Enlargement Rate	1,900	8,539
1994	1,313	1.129	○	3	341	385	571	645	736	831	○	○	Area Percentage of 500-year or more rainfall: 3.8% *2	4,268	33,587
1995	1,262	1.175	○	5	358	420	648	761	838	985	Rejected	Rejected	Temporal Distribution	5,612	38,741
1996	1,166	1.272	Greater than 1.2	18	302	383	546	694	696	885	○	Rejected	Enlargement Rate	4,109	31,211
1997	884	1.678	Greater than 1.2	50	251	421	467	784	666	1,117	Rejected	Rejected	Enlargement Rate	2,550	13,625
1998	884	1.677	Greater than 1.2	49	246	413	398	667	601	1,008	Rejected	Rejected	Enlargement Rate	2,297	10,027
1999	1,196	1.240	Greater than 1.2	14	272	337	478	593	647	802	○	Rejected	Enlargement Rate	3,912	30,476
2000	1,093	1.356	Greater than 1.2	25	266	361	421	570	559	759	○	Rejected	Enlargement Rate	3,017	27,314
2001	1,185	1.251	Greater than 1.2	15	313	392	474	594	631	790	○	Rejected	Enlargement Rate	4,215	28,587
2002	1,201	1.234	Greater than 1.2	13	402	496	600	740	728	899	Rejected	Rejected	Enlargement Rate	5,547	35,129
2003	947	1.565	Greater than 1.2	43	266	417	445	697	621	973	Rejected	Rejected	Enlargement Rate	3,403	15,513
2004	1,091	1.360	Greater than 1.2	27	271	369	474	645	624	848	○	Rejected	Enlargement Rate	3,450	20,655
2005	1,085	1.366	Greater than 1.2	29	347	474	525	717	702	959	Rejected	Rejected	Enlargement Rate	3,869	22,229
2006	1,375	1.078	○	2	353	381	619	667	792	854	○	○	○	6,385	44,332
2007	1,214	1.221	Greater than 1.2	9	305	373	487	595	641	783	○	Rejected	Enlargement Rate	4,032	23,304
2008	1,114	1.331	Greater than 1.2	23	259	344	459	610	628	835	○	Rejected	Enlargement Rate	3,728	27,243
2009	1,080	1.360	Greater than 1.2	28	260	354	446	607	576	784	○	Rejected	Enlargement Rate	4,559	19,077
2010	1,135	1.306	Greater than 1.2	21	341	445	593	774	771	1,007	Rejected	Rejected	Enlargement Rate	5,077	26,630
2011	1,483	1.000	○	1	332	332	627	627	857	857	○	○	○	6,857	55,570
													Maximum	6,857	55,570
													Year of maximum	2011	2011

: Rejected due to Enlargement rate and/or Temporal Distribution : Rejected due to Spatial Distribution

※1: 1-, 2- and 3-month rainfalls are maximum rainfalls within the period of the maximum 6-month rainfall. *2 : Evaluation of Model of Minimum SLSC : Maximum

CHAPTER C7 HYDROLOGICAL DATA

C7.1 Inventory of Hydrological Data

Table C7.1.1 Inventory of TMD Rainfall Data (1)

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 46 | case3* |
|---|---|---

Table C7.1.2 Inventory of TMD Rainfall Data (2)

RID Hydro-1 WEB
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)

RID Hydro Center 1
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data), (2011 data uptil Oct)

RID Hydro Center 5
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)
※ case3: TMD46+ RID195+ additional data(169)

Inventory of TMD Rainfall Data

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 46 | case3* |
|---|---|---

Table C7.1.3 Inventory of TMD Rainfall Data (3)

RID Hydro-1 WEB
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)

RID Hydro Center 1
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data), (2011 data uptil Oct)

RID Hydro Center 5
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)
※ case3: TMD46+RID195+additional data(169)

Inventory of TMD Rainfall Data

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 46 | case3※ |
|---|---|---

Table C7.1.4 Inventory of TMD Rainfall Data (4)

RID Hydro-1 WEB
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)

RID Hydro Center 1
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data), (2011 data uptil Oct)

RID Hydro Center 5
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)

※ case3: TMD46+ RID195+ additional data(169)

Inventory of TMD Rainfall Data

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 46 | case3※ |
|---|---|---

Table C7.1.5 Inventory of TMD Rainfall Data (5)

RID Hydro-1 WEB
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)

RID Hydro Center 1
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data), (2011 data uptil Oct)

RID Hydro Center 5
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)
※ case3 : TMD46 + RID195 + additional data (169)

Inventory of TMD Rainfall Data

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 46 | case3※ |
|---|---|---

Table C7.1.6 Inventory of TMD Rainfall Data (6)

RID Hydro-1 WEB
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)

RID Hydro Center 1
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data), (2011 data uptil Oct)

RID Hydro Center 5
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)
※ case3: TMD46+ RID195+ additional data(169)

Inventory of TMD Rainfall Data

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 46 | case3※ |
|---|---|---

Table C7.1.7 Inventory of TMD Rainfall Data (7)

Inventory of TMD Rainfall Data

RID Hydro-1 WEB: Collected RID Hydro-1 Data; Collected RID Hydro-1 Data (incl missing data)

RID Hydro Center 1: Collected RID Hydro-1 Data; Collected RID Hydro-1 Data (incl missing data), (2011 data upto Oct)

RID Hydro Center 5: Collected RID Hydro-1 Data; Collected RID Hydro-1 Data (incl missing data); ※ case3:TMD46+RID195+additional data(169)

○ Jan~Dec complete ● Apr~Dec complete ○ Apr~Dec within 20 missing days ■ Apr~Dec 31 ~ 90 missing days ▲ Apr~Dec 91 ~274 missing days ※ Apr~Dec fully missed × Jan~Dec fully missed N Not collected - Outside the observation

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 46 | case3※ |
|---|---|---

Table C7.1.8 Inventory of TMD Rainfall Data (8)

RID Hydro-1 WEB
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)

RID Hydro Center 1
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data), (2011 data upto Oct)

RID Hydro Center 5
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)
※ case3 : TMD46 + RID195 + additional data(169)

Inventory of TMD Rainfall Data

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 46 | case3※ |
|---|---|---

Table C7.1.9 Inventory of TMD Rainfall Data (9)

RID Hydro-1 WEB
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)

RID Hydro Center 1
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data), (2011 data upto Oct)

RID Hydro Center 5
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)

※ case3:TMD46+RID195+additional data(169)

Inventory of TMD Rainfall Data

◎ Jan~Dec complete ○ Apr~Dec complete ● Apr~Dec within 20 missing days ■ Apr~Dec 31 ~ 90 missing days ▲ Apr~Dec 91 ~274 missing days ※ Apr~Dec fully missed × Jan~Dec fully missed N Not collected Outside the observation

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 46 | case3※ |
|---|---|---

Table C7.1.10 Inventory of RID Rainfall Data (1)

RID Hydro-1 WEB
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)

RID Hydro Center 1
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data), (2011 data upto Oct)

RID Hydro Center 5
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)
※ case3:TMD46+RID195+additional data(169)

Inventory of RID Rainfall Data

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 195 | case3[b] |
|---|---|---

Table C7.1.11 Inventory of RID Rainfall Data (2)

Inventory of RID Rainfall Data

RID Hydro-1 WEB
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl.missing data)

RID Hydro Center 1
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl.missing data), (2011 data up1Oct)

RID Hydro Center 5
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl.missing data)
※ case3:TM946+ RID195+additional data(169)

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 ~ 90 missing days ▲ Apr-Dec 91 ~274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected -Outside the observation

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 195 | case3[※] |
|---|---|---

Table C7.1.12 Inventory of RID Rainfall Data (3)

Inventory of RID Rainfall Data

RID Hydro-1 WEB
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (inclmissing data)

RID Hydro Center 1
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data), (2011 data until Oct)

RID Hydro Center 5
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)
※ case3:TMD46+RID195+additional data(169)

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected -Outside the observation

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 195 | case3[8] |
|---|---|---

Table C7.1.13 Inventory of RID Rainfall Data (4)

RID Hydro-1 WEB
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl.missing data)

RID Hydro Center 1
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl.missing data), (2011 data until Oct)

RID Hydro Center 5
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl.missing data)
※ case3:TM946+RID195+additional data(169)

Inventory of RID Rainfall Data

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 ~ 90 missing days ▲ Apr-Dec 91 ~274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected -Outside the observation

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 195 | case3[※] |
|---|---|---

Table C7.1.14 Inventory of RID Rainfall Data (5)

RID Hydro-1 WEB
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl.missing data)

RID Hydro Center 1
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl.missing data), (2011 data uptil Oct)

RID Hydro Center 5
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl.missing data)
※ case3:TMD46+ RID195+ additional data(169)

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected -Outside the observation

Inventory of RID Rainfall Data

No	CODE	STATION_NAME	AGENCY	LATITUDE	LONGITUDE	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	195	case3※
241	42230	Khlong Prem Bang Pa-In Bag.(CPA. 17)	RID	14.20	100.58	-	-	-	-	-	-	-	-	-	-	○	◎	◎	◎	◎	◎	■	◎	◎	◎	◎	◎

Table C7.1.15 Inventory of RID Rainfall Data (6)

RID Hydro-1 WEB
- Collected RID Hydro-1 Data
- Collected RID Hydro-1 Data (incl missing data)

RID Hydro Center 1
- Collected RID Hydro-1 Data
- Collected RID Hydro-1 Data (incl missing data), (2011 data uptil Oct)

RID Hydro Center 5
- Collected RID Hydro-1 Data
- Collected RID Hydro-1 Data (incl missing data)

※ case3:TMD46+RID195+additional data(169)

Inventory of RID Rainfall Data

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 195 | case3* |
|---|---|---

Table C7.1.16 Inventory of RID Rainfall Data (7)

RID Hydro-1 WEB
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)

RID Hydro Center 1
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data), (2011 data uptil Oct)

RID Hydro Center 5
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)
※ case3:TMD46+RID195+additional data(169)

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

Inventory of RID Rainfall Data

| No | CODE | STATION_NAME | AGENCY | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 195 | case3* |
|---|---|---

Table C7.1.17 Inventory of RID Rainfall Data (8)

RID Hydro-1 WEB
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)

RID Hydro Center 1
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data), (2011 data upto Oct)

RID Hydro Center 5
Collected RID Hydro-1 Data
Collected RID Hydro-1 Data (incl missing data)
※ case 3 : TMD46+ RID195 + additional data(169)

◎ Jan–Dec complete ○ Apr–Dec complete ● Apr–Dec within 30 missing days ■ Apr–Dec 31 – 90 missing days ▲ Apr–Dec 91 –274 missing days ※ Apr–Dec fully missed × Jan–Dec fully missed N Not collected -- Outside the observation

Inventory of RID Rainfall Data

No	CODE	STATION_NAME	AGENCY	LATITUDE	LONGITUDE	195 cases*
421	62J0150	อ.เด่นชัย จ.แพร่	RID			
422	62J0160	อ.เด่นชัย จ.แพร่	RID			
423	62J0170	อ. เด่นชัย จ. แพร่	RID			
424	62J0130	Thung Luang Project	RID			
425	62J0010	Mangsang Dam	RID	18.92	99.13	○
426	62J0020	Mae-ngad Dam	RID	19.16	99.04	○
427	62J0030	Mae-ang Weir	RID	19.15	98.92	○
428	62J0040	Mae-ida Weir	RID	19.10	98.96	○
429	62J0050	Nawum Bridge	RID	18.79	99.01	
430	62J0060	Mae-pong Weir	RID	18.69	98.99	○
431	62J0070	NamyamWeir	RID	18.18	97.93	
432	62J0080	Maesao Weir	RID	20.02	99.24	
433	62B5010	อ.เมือง จ.พะเยา	RID			
434	62B5020	อำเภอเมือง อ.เมือง จ.พะเยา	RID			
435	62B5030	โครงการพัฒนาลุ่มน้ำแม่ต๋ำ อ.เมือง จ.พะเยา	RID			
436	07TB1	Khung Wang Project A.Mae Wang, Chiang Mai	RID	18.62	98.50	○
437	07PA1	Huai Luek Reservoir project A.Chiang Dao, Chiang Mai	RID	19.53	99.06	○
438	TUP-12	Mae Khang Du	RID	18.92	99.13	

Table C7.1.18 Inventory of DWR Rainfall Data

Inventory of DWR Rainfall Data

◎ Jan–Dec complete ○ Apr–Dec complete ● Apr–Dec within 30 missing days ■ Apr–Dec 31 – 90 missing days ▲ Apr–Dec 91 -274 missing days ※ Apr–Dec fully missed × Jan–Dec fully missed N Not collected - Outside the observation

※ case3 : T.M 0.46 + R/D 1.95 + additional data(1.69)

| No | CODE | STATION_NAME | Agency | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | case3※ |
|---|---|---

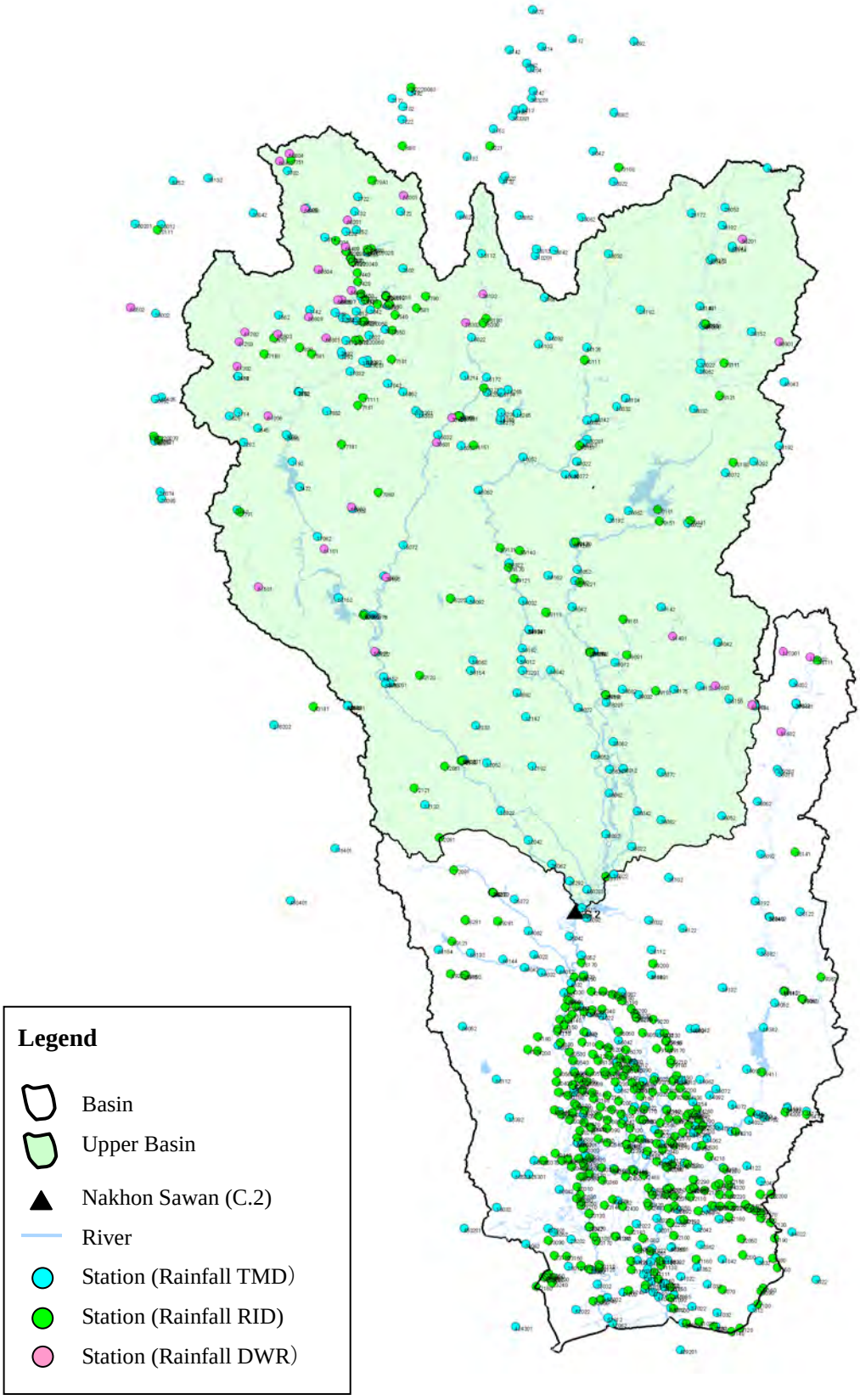


Figure C7.1.1 Location Map of Rainfall Station

Table C7.1.19 Inventory of Discharge Data (1)

Inventory of Discharge Data

Priority (Mr.Higuchi's Report)

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

No	CODE	STATION_NAME	River	X	Y	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12
1	P.1	Ban Bang Kaeo, Muang, Ang Thong, (C.7A)	Ping	500848.93	2077130.67	◎	◎	◎

Table C7.1.20 Inventory of Discharge Data (2)

Inventory of Discharge Data

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

Priority (Mr.Higuchi's Report)

| No. | CODE | STATION_NAME | River | X | Y | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---

Table C7.1.21 Inventory of Discharge Data (3)

Inventory of Discharge Data

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

Priority (Mr.Higuchi's Report)

No	CODE	STATION_NAME	River	X	Y	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12
141	C.20	-	Chao Phraya	687473.40	1762040.46	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
142	C.22A	-	-	661205.54	1536587.25	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
143	C.29	Bang Sai,Phra Nakhon Si Ayutthaya, . (C29)	Chao Phraya	662556.37	1569540.04	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
144	C.29A	Bang Sai,Phra Nakhon Si Ayutthaya, . (C29A)	-	0.00	0.00	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
145	C.30	Ban Samo Thong, Ban Rai, Uthai Thani.(C30)	Chao Phraya	557899.33	1697233.20	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
146	C.35	Pump 6 Bang Ban Project, Ban Rim, Phra Nakhon Si Ayutthaya, (C35)	Chao Phraya	663126.03	1580971.94	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
147	C.36	-	Chao Phraya	655569.22	1593835.24	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
148	C.37	-	Chao Phraya	653951.37	1587778.13	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
149	C.38	-	Chao Phraya	666370.61	1592055.04	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
150	C.44	-	Chao Phraya	642992.81	1593908.75	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
151	C.50	-	-	586710.61	1693393.14	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
152	C.51	-	Sakae Krang	596837.57	1699541.24	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
153	C.52A	-	-	613814.00	1731765.44	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
154	C.56	-	-	622845.89	1705132.53	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
155	C.57	-	-	549868.24	1697067.20	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
156	C.59	-	-	564986.35	1693038.41	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
157	C.60	-	-	554854.55	1703983.94	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
158	C.20A	-	Sakae Krang	611897.59	1703494.29	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
159	C.28	-	Sakae Krang	611897.59	1703494.29	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
160	C.4	-	Sakae Krang	573941.29	1745118.12	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
161	C.5A	Ban Bang Makha, Khanu Woralaksburi, Kamphaeng Phet. (C5A)	Sakae Krang	554170.08	1760827.88	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
162	C.9B	-	Sakae Krang	549269.97	1758066.20	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
163	C.7	-	Sakae Krang	557759.48	1729157.35	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
164	C.8	-	Sakae Krang	600042.81	1712643.71	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
165	C.9	-	Sakae Krang	559043.49	1716695.68	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
166	C.19	-	Sakae Krang	610859.48	1706560.42	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
167	C.20	-	Sakae Krang	563237.44	1707724.75	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
168	C.21	-	Sakae Krang	576073.41	1728350.78	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
169	C.22	-	Sakae Krang	605818.80	1696357.29	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
170	C.23	-	-	553648.55	1711784.70	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
171	S.3	-	Pasak	738735.37	1856792.01	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
172	S.4B	-	Pasak	731757.05	1816635.53	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
173	S.5	Pranchanta Thani Hospital, Muang, Phra Nakhon Si Ayutthaya, (S.5)	Pasak	670795.82	1588003.79	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
174	S.7A	-	Pasak	728963.83	1635963.79	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
175	S.9	Ban Pa, Kaeng Khoi, Saraburi, (S.9)	Pasak	717218.53	1617907.74	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	※
176	S.10	-	Pasak	736360.28	1873951.40	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
177	S.13	-	Pasak	754886.56	1697238.47	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
178	S.14	-	Pasak	745006.43	1684098.50	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
179	S.17	-	Nam Phung	728711.11	1854455.85	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
180	S.26	Tha Rua, Tha Rua, Phra Nakhon Si Ayutthaya (S.26)	Pasak	698991.59	1699935.97	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	■	×
181	S.28	-	Pasak	723628.70	1641566.97	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
182	S.28A	-	Pasak	724471.67	1639555.02	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
183	S.32	-	Pasak	715161.96	1606669.03	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
184	S.33	-	Pasak	750847.04	1881401.88	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
185	S.34	-	Pasak	725615.05	1731738.86	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
186	S.36	-	Pasak	759061.83	1850049.22	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
187	S.39	-	Pasak	735379.49	1688637.72	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
188	S.40	-	Pasak	751840.54	1687864.12	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
189	S.41	-	Pasak	732259.95	1857723.33	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
190	S.42	-	-	724239.45	1723177.94	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
191	S.48	-	-	-	0.00	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
192	L.2B	-	Lop Buri	673870.29	1633427.89	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
193	T.1	-	Tha Chin	628748.51	1525773.10	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
194	T.10	-	Tha Chin	620529.34	1509509.30	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
195	T.11	-	Tha Chin	557698.31	1669887.07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
196	T.12A	-	Tha Chin	566651.89	1659801.96	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
197	T.13	-	-	621743.44	1565376.84	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
198	T.14	-	-	631552.81	1517552.27	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
199	T.15	-	-	627461.98	1553080.55	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

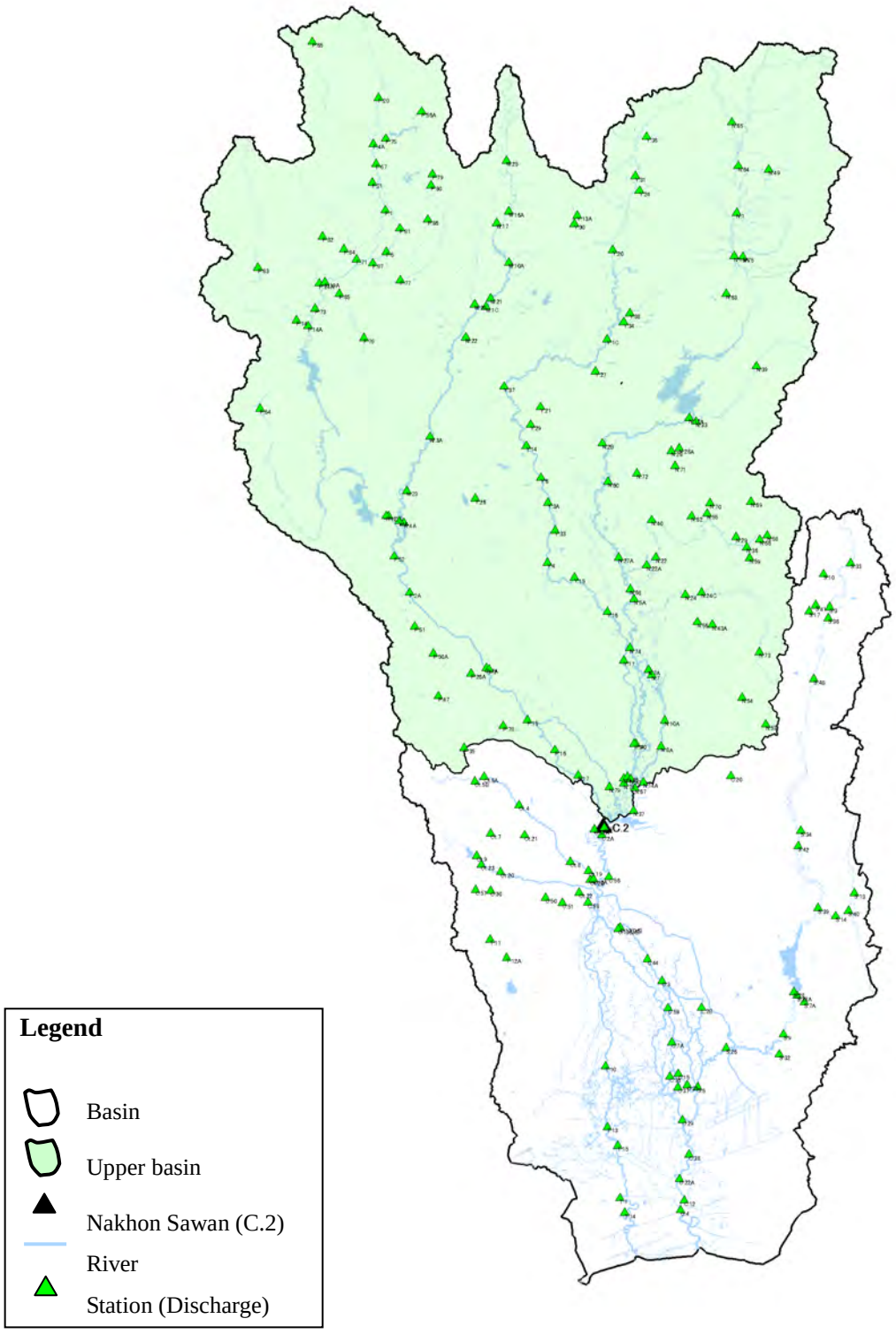


Figure C7.1.2 Location Map of Discharge Station

Table C7.1.22 Inventory of water Level Data (1)

Inventory of Water Level Data

Priority (Mr.Higuchi's Report)

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

No	CODE	STATION_NAME	River	LATITUDE	LONGITUDE	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12
1	P.1	Ban Bang Kaeo, Muang, Ang Thong, (C.7A)	Ping	500848.93	2077130.67	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	●	◎	◎	◎	◎	◎	◎	◎	◎	◎	●	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎

Table C7.1.23 Inventory of water Level Data (2)

Inventory of Water Level Data

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 -274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

Priority (Mr.Higuchi's Report)

| No | CODE | STATION_NAME | River | LATITUDE | LONGITUDE | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---

Table C7.1.24 Inventory of water Level Data (3)

Inventory of Water Level Data

◎ Jan-Dec complete ○ Apr-Dec complete ● Apr-Dec within 30 missing days ■ Apr-Dec 31 - 90 missing days ▲ Apr-Dec 91 - 274 missing days ※ Apr-Dec fully missed × Jan-Dec fully missed N Not collected - Outside the observation

Priority (Mr.Higuchi's Report)

No	CODE	STATION_NAME	River	LATITUDE	LONGITUDE	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12
141	C..20	-	Chao Phraya	687473.40	1762040.45	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
142	C.22A	-	-	661205.54	1536587.25	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
143	C..29	Bang Sai,Phra Nakhon Si Ayutthaya, . (C29)	Chao Phraya	662556.37	1569540.04	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
144	C.29A	Bang Sai,Phra Nakhon Si Ayutthaya, . (C29A)	-	0.00	0.00	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
145	C..30	Ban Samo Thong, Ban Rai, Uthai Thani.(C30)	Chao Phraya	557899.33	1697233.20	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
146	C..35	Pump 6 Bang Ban Project, Ban Bun, Phra Nakhon Si Ayutthaya, (C-35)	Chao Phraya	665126.03	1588971.94	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
147	C..36	-	Chao Phraya	655569.22	1593835.24	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
148	C..37	-	Chao Phraya	659951.37	1587778.13	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
149	C..38	-	Chao Phraya	666370.61	1592055.04	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
150	C..44	-	Chao Phraya	642992.81	1603908.76	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
151	C..50	-	-	587610.61	1693393.14	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
152	C..51	-	Sakae Krang	596837.57	1690541.24	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
153	C.52A	-	-	613814.08	1731765.44	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
154	C..56	-	-	623945.89	1705132.53	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
155	C..57	-	-	549669.24	1697767.20	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
156	C..58	-	-	610586.33	1690848.21	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
157	C..59	-	-	654489.56	1632028.41	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
158	Ch.2A	-	Sakae Krang	613534.67	1703883.94	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
159	Ch.2B	-	-	613897.50	1703884.29	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
160	Ch.4	-	Sakae Krang	577041.79	1745118.12	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
161	Ch.5A	Ban Pang Makhe, Khanu Woralaksaburi, Kamphaeng Phet. (Ch5A)	Sakae Krang	554170.08	1790027.88	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
162	Ch.3B	-	Sakae Krang	548269.97	1758066.20	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
163	Ch.7	-	Sakae Krang	557739.48	1772547.35	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
164	Ch.9	-	Sakae Krang	600842.81	1771663.08	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
165	Ch.19	-	Sakae Krang	550454.49	1708690.36	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
166	Ch.20	-	Sakae Krang	542027.46	1707724.52	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
167	Ch.21	-	Sakae Krang	576073.41	1728550.78	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
168	Ch.22	-	-	609818.80	1696857.29	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
169	Ch.23	-	-	553648.55	1711794.29	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
170	S.3	-	-	728735.37	1856792.01	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
171	S.4B	-	Pasak	731757.05	1816535.53	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
172	S.5	Praecharuntharat Hospital, Muang, Phra Nakhon Si Ayutthaya, (S.5)	Pasak	670095.82	1588603.75	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
173	S.7A	-	Pasak	728863.83	1633963.75	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
174	S.9	Ban Pa, Kaeng Khoi, Saraburi.(S.9)	Pasak	717218.53	1617907.74	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
175	S.10	-	Pasak	736960.28	1873951.40	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
176	S.13	-	Pasak	754986.56	1897238.47	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
177	S.14	-	Pasak	743006.43	1884308.90	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
178	S.17	-	Nam Phung	728711.11	1854455.85	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
179	S.26	Tha Rua,Tha Rua, Phra Nakhon Si Ayutthaya.(S.26)	Pasak	686091.39	1609935.97	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
180	S.28	-	Pasak	722628.70	1641566.97	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
181	S.28A	-	Pasak	724471.67	1639555.02	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
182	S.32	-	Pasak	715161.96	1606669.03	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
183	S.33	-	Pasak	759847.04	1881401.88	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
184	S.34	-	Pasak	725615.05	1731738.86	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
185	S.36	-	Pasak	739961.83	1850849.22	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
186	S.39	-	Pasak	735379.49	1698637.72	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
187	S.40	-	Pasak	751840.54	1687364.12	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
188	S.41	-	Pasak	732259.95	1857723.33	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
189	S.42	-	-	724239.45	1723177.94	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
190	S.48	-	-	0.00	0.00	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
191	L.2B	-	Lop Buri	673870.29	1632427.89	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
192	T.1	-	Tha Chin	628748.51	1525773.10	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
193	T.10	-	Tha Chin	626529.34	1599269.30	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
194	T.11	-	Tha Chin	557698.31	1603887.07	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
195	T.12A	-	Tha Chin	566851.89	1659901.56	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
196	T.13	-	-	621743.44	1565376.94	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
197	T.14	-	-	631552.81	1517552.27	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
198	T.15	-	-	627461.98	1553080.53	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

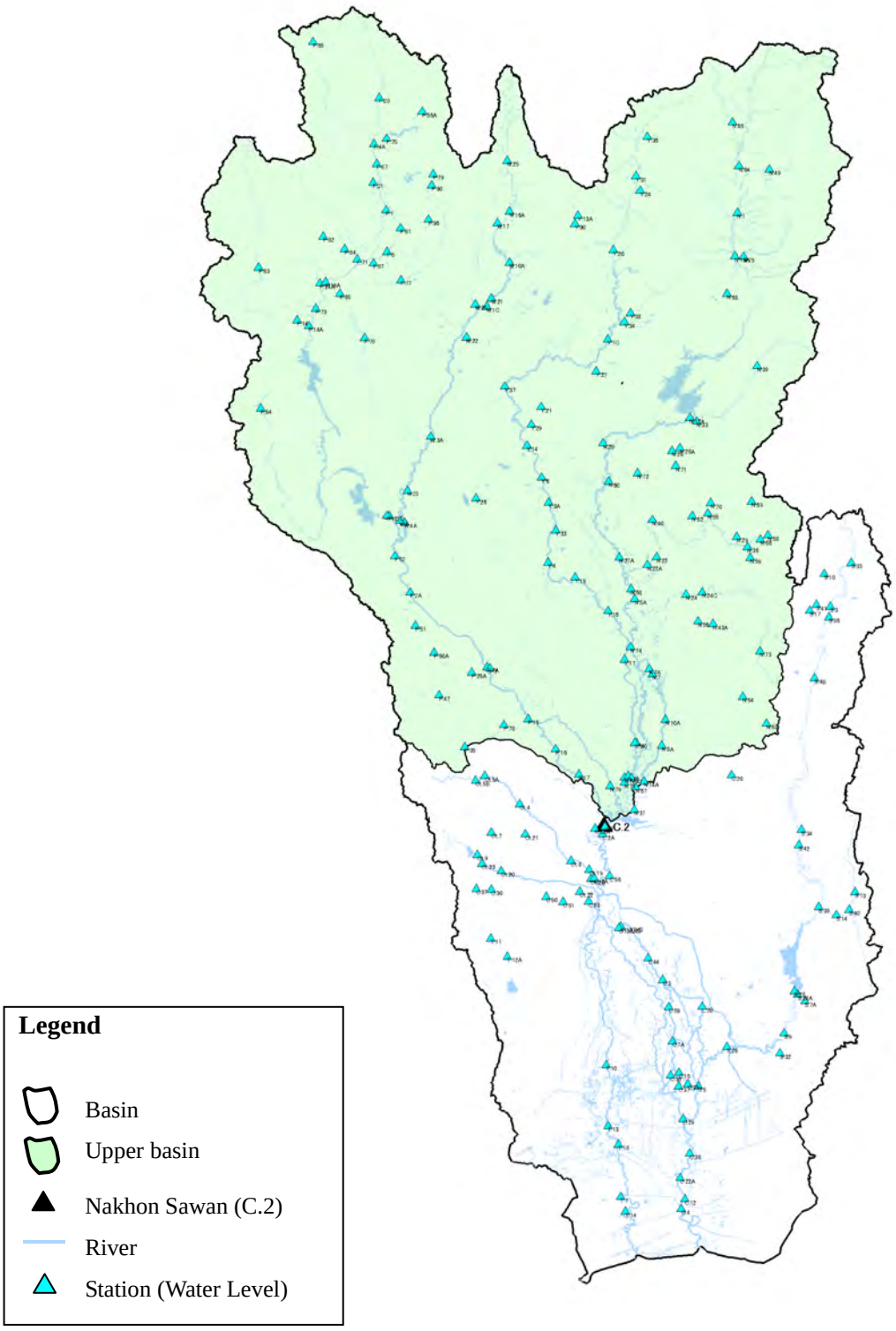


Figure C7.1.3 Location Map of Water Level Station

Table C7.1.25 Inventory of Evapotranspiration Data

Inventory of Evaporation Data

○ Jan~Dec complete ● incl missing data Empty : Not collected

No.	CODE	STATION_NAME	AGENCY	LATITUDE	LONGTUDE	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	0	1	2	3	4	5	6	7	8	9	10	11	46
1	300201	Mae Hong Son*	TMD	19.30	97.83				●		○	●		●											●	○	○	●	○	○	●			●	●	●	○
2	300202	Mae Sariang*	TMD	18.17	97.93				●	●	●	●	●	●	●	●	●	●	○	○	○	○	●	●	●	●	○	●	○	●	●	●	●	●	●	●	○
3	303201	Chiang Rai*	TMD	19.96	99.88	●		●	●	●	●	●	○	●	●	●	○	●	○	○	○	○	●	●	●	●	○	●	○	●	○	●	●	●	●	●	○
4	303301	Chiang Rai Agromet	TMD	19.87	99.78	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○
5	310201	Phayao*	TMD	19.13	99.90				●	●	○	●	●	●	●	●	●	●	○	○	○	○	●	●	●	●	○	●	○	●	●	●	●	●				○
6	327301	Mae Jo	TMD	18.92	99.00	●		●	●	●	○	●	●	●	●	●	●	●	○	○	○	○	●	●	●	●	○	●	○	●	●	●	●	●	●	●	○
7	327501	Chiang Mai	TMD	18.79	98.98	●		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
8	328201	Lampang*	TMD	18.28	99.52	●		●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
9	328301	Lampang Agromet	TMD	18.32	99.28			●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
10	329201	Lamphun*	TMD	18.57	99.03			●	●	○	○	○	○	●	●	○	○	○	○	○	○	○	●	○	●	●	○	●	○	●	●	○	●	●	●	●	●	○
11	330201	Phrae*	TMD	18.17	100.17			●	●	○	○	○	○	●	●	○	○	●	○	●	●	○	○	○	●	●	○	●	○	●	●	●	●	●	●	●	●	○
12	331201	Nan*	TMD	18.77	100.77	●		○	●	○	○	○	○	●	●	○	●	●	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
13	331301	Nan Agromet	TMD	18.87	100.75	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
14	331401	Tha Wang Pha*	TMD	19.11	100.80	○	○	○	●	●	○	○	○	○	○	○	○	○	●	●	●	●	○	○	●	●	○	●	○	●	●	●	●	●	●	●	●	○
15	331402	Thung Chang	TMD																																			
16	351201	Uttaradit*	TMD	17.62	100.10			●	●	○	○	○	○	●	●	○	○	○	○	○	○	○	●	●	●	●	○	●	○	●	●	○	●	●	●	●	●	○
17	373201	Sukhothai	TMD	16.95	99.83				●	○	○	○	○	●	●	○	○	○	○	○	○	○	●	●	●	●	○	●	○	●	●	○	●	●	●	●	●	○
18	373301	Si Samrong Agromet	TMD	17.17	99.87	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
19	376201	Tak*	TMD	16.88	99.15			●	●	●	●	●	●	●	●	●	○	○	○	○	●	●	●	○	●	●	○	●	○	●	●	●	●	●	●	●	●	○
20	376202	Mae Sot*	TMD	16.67	98.55	○		○	●	●	○	○	○	●	●	○	○	○	○	○	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
21	376203	Bhumibol Dam*	TMD	17.25	99.02	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
22	376301	Doi Muser Agromet Stn.	TMD	16.77	98.93													●	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
23	376401	Umphang*	TMD	16.02	98.87	○	●	○	●	●	○	○	●	●	●	○	●	●	○	○	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
24	378201	Phitsanulok*	TMD	16.78	100.27	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
25	379201	Phetchabun*	TMD	16.43	101.15	○		●	●	●	●	●	●	●	●	●	●	○	○	○	●	●	●	●	●	●	○	●	○	●	○	●	●	●	●	●	●	○
26	379401	Lom Sak*	TMD	16.77	101.25	○	○	○	●	○	○	○	●	●	●	●	○	○	○	●	●	○	●	●	●	●	○	●	○	●	●	●	●	○	●	●	●	○
27	379402	Wichian Buri*	TMD	15.66	101.11	●	○	○	●	○	○	○	●	○	●	●	○	○	●	○	●	●	●	○	●	●	○	●	○	●	●	●	●	●	●	●	●	○
28	380201	Kamphaeng Phet*	TMD	16.48	99.53								○	●	●	●	○	○	●	●	●	●	●	○	●	●	○	●	○	●	●	●	●	●	●	●	●	○
29	386301	Pichit Agromet	TMD	16.43	100.28														●	○	○	○	○	○	●	●	○	●	○	●	●	○	○	○	●	●	●	○
30	400201	Nakhon Sawan*	TMD	15.80	100.17	○																																
31	400301	Tak Fa Agromet	TMD	15.35	100.50	●		○	●	●	●	●	●	●	●	●	○	○	○	●	●	●	●	○	●	●	○	●	○	●	●	●	●	●	●	●	●	○
32	402301	Chai Nat*	TMD	15.15	100.18	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
33	415301	Ayutaya Agromet	TMD	14.52	100.72																																	
34	419301	Pathumthani Agromet	RID																																			
35	424301	Ratchaburi	TMD	13.50	99.80																																	
36	425201	Suphan Buri*	TMD	14.47	100.13	●		●	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
37	425301	U Thong Agromet	TMD	14.30	99.87	●		●	●	●	●	●	●	●	●	●	●	●	○	○	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
38	426201	Lop Buri*	TMD	14.80	100.62			●	●	●	○	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
39	426401	Bua Chum*	TMD	15.27	101.18			○	●	○	○	●	●	●	●	●	○	○	○	●	●	●	●	○	●	●	○	●	○	●	○	●	●	●	●	●	●	○
40	429201	Phra Station*	TMD	13.38	100.65																																	
41	429601	Suwanabhum Airport	RID																																			
42	450201	Kanchanaburi*	TMD	14.02	99.53	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
43	450401	Thong Pha Phum*	TMD	15.74	98.64	○		●	●	○	○	○	●	●	●	○	●	●	●	○	●	●	●	●	●	●	○	●	○	●	○	●	●	●	●	●	●	○
44	451301	Kamphaeng Saen Agromet	TMD	14.02	99.97	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	●	○	●	●	●	●	●	●	●	●	○
45	455201	Bangkok Metropolis*	TMD	13.73	100.56	○		○	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
46	455203	Klong Toey*	TMD	13.71	100.57																																	
47	455301	Bang Na*	TMD	13.67	100.62	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
48	455302	Bang Khen*	TMD	13.85	100.58	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	○
49	455601	Donmuang	TMD	13.92	100.61																																	

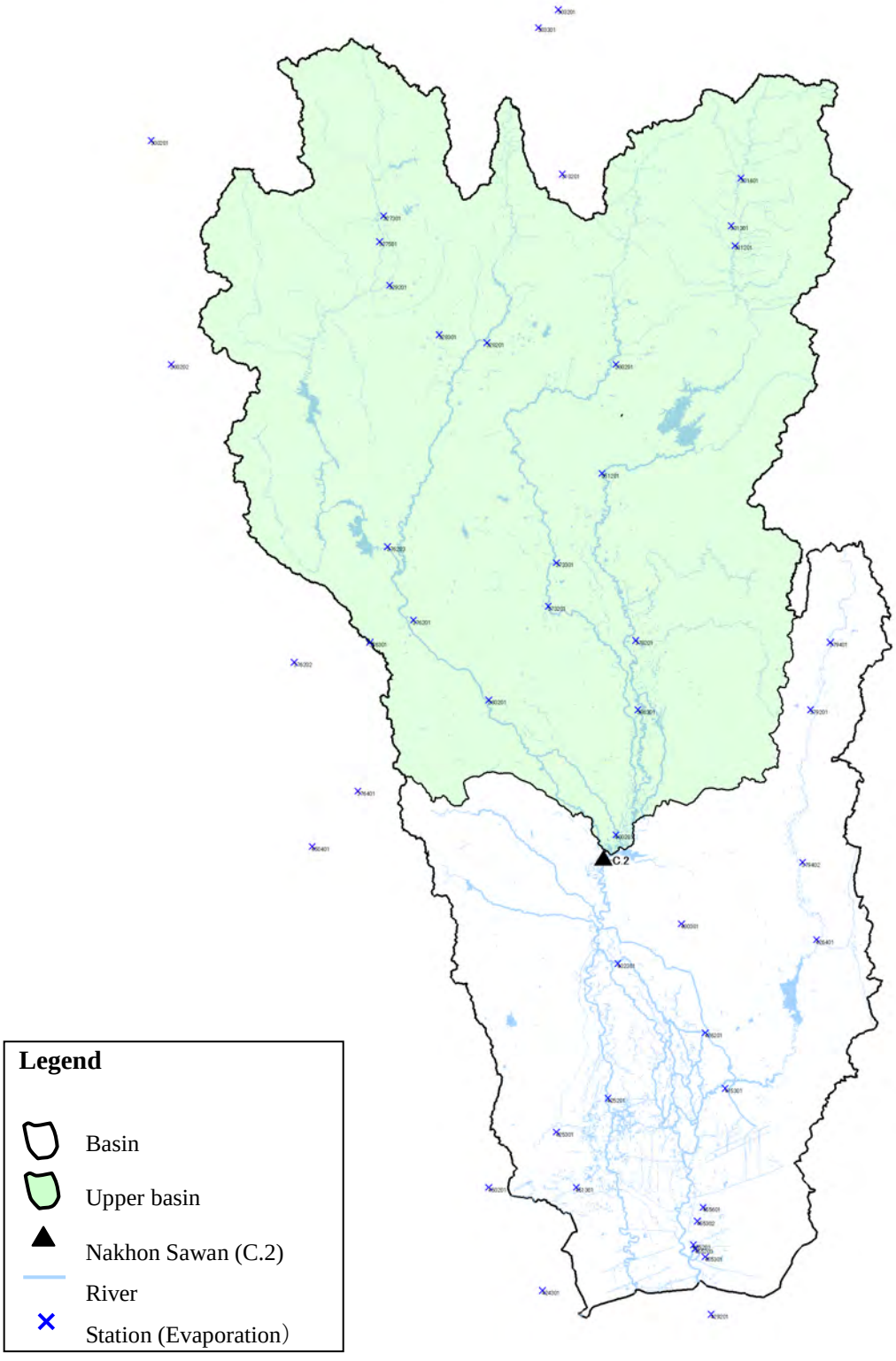


Figure C7.1.4 Location Map of Evapotranspiration Station

Table C7.1.26 Inventory of Dam Data

Inventory of Dam Data

● Collected 2012 ○ Collected 2012 (incl missing data)

No	STATION_NAME	River	LATITUDE	LONGITUDE
1	Bhumibol	Ping	17.27	98.90
2	Sirikit	Nan	17.77	100.56
3	Kiew Ko Ma	Wang	18.80	99.64
4	Kiew Lom	Wang	18.52	99.63
5	Ku Siew	Ta Chin	14.83	99.65
6	Kwae Noi Bumrung Dan	Nan	17.18	100.42
7	Mae Kwang Udom Than	Ping	18.92	99.13
8	Mae Ngad Somboon Chol	Ping	19.16	99.04
9	Pasak Cholius	Pasak	14.85	101.09
10	Yab Saluo	Tab Saluo	15.52	99.48

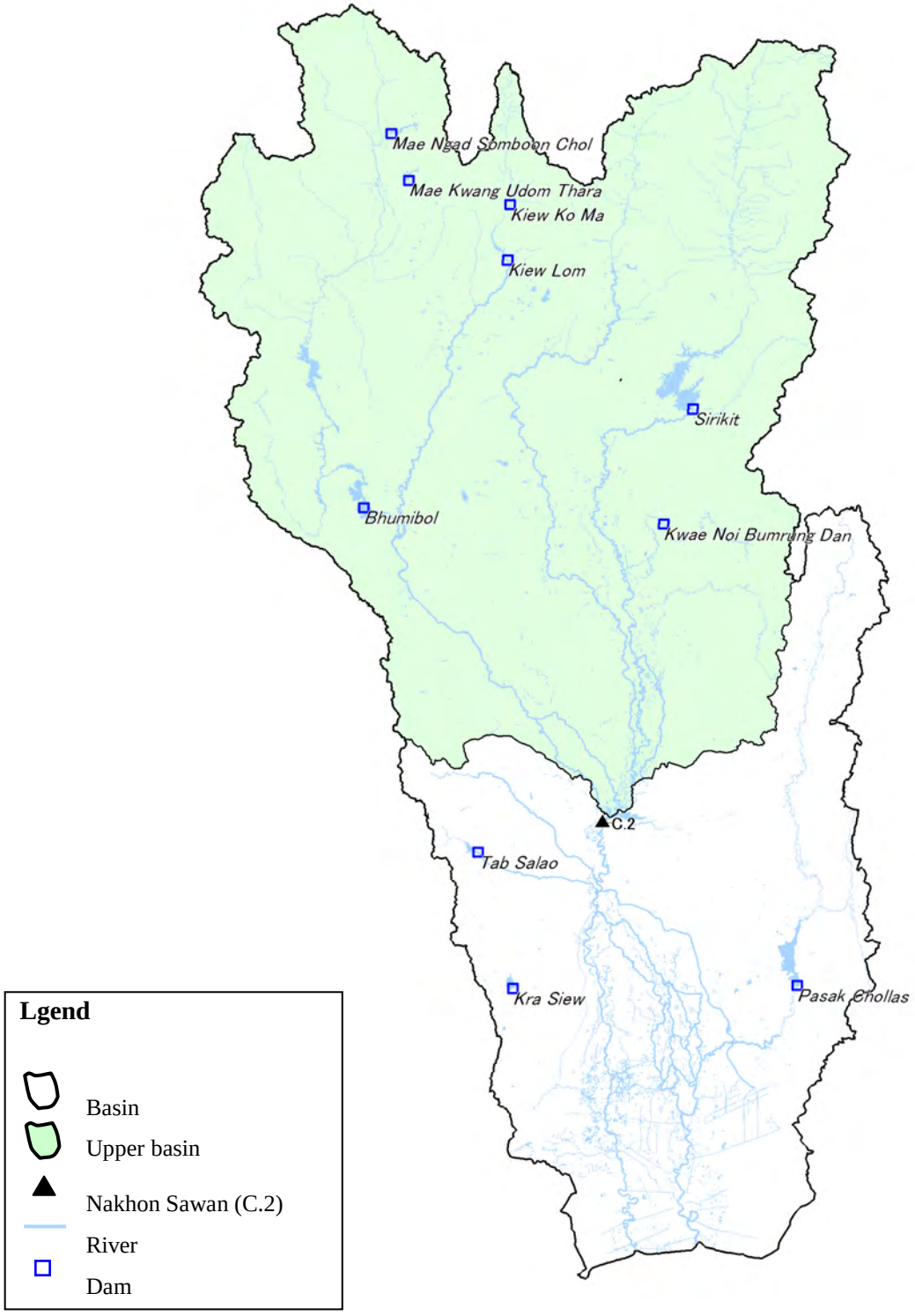


Figure C7.1.5 Location Map of Dam

C7.2 Evapotranspiration

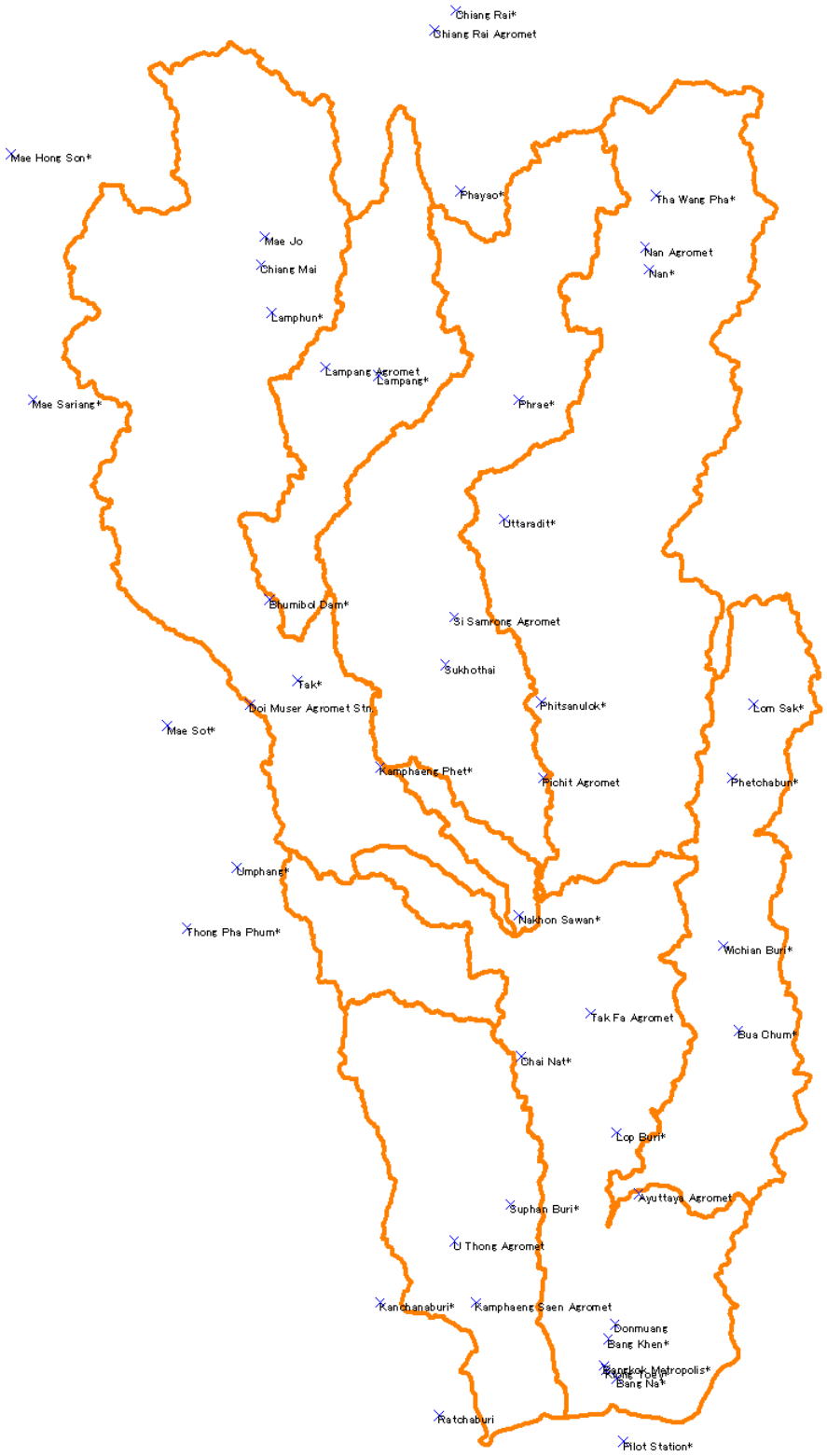


Figure C7.2.1 Location Map of Evapotranspiration Station

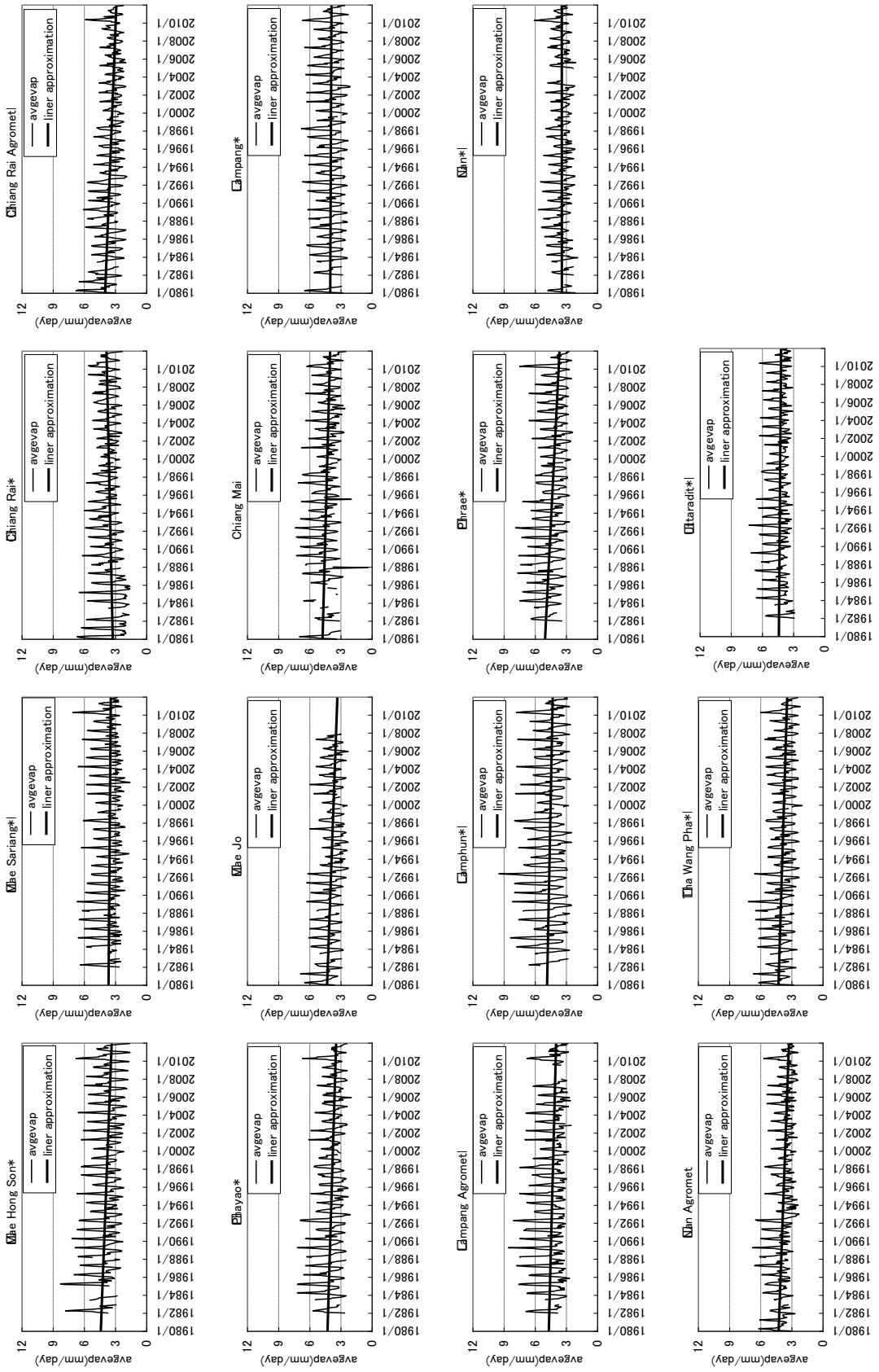


Figure C7.2.2 Evapotranspiration (1980-2011) (1)

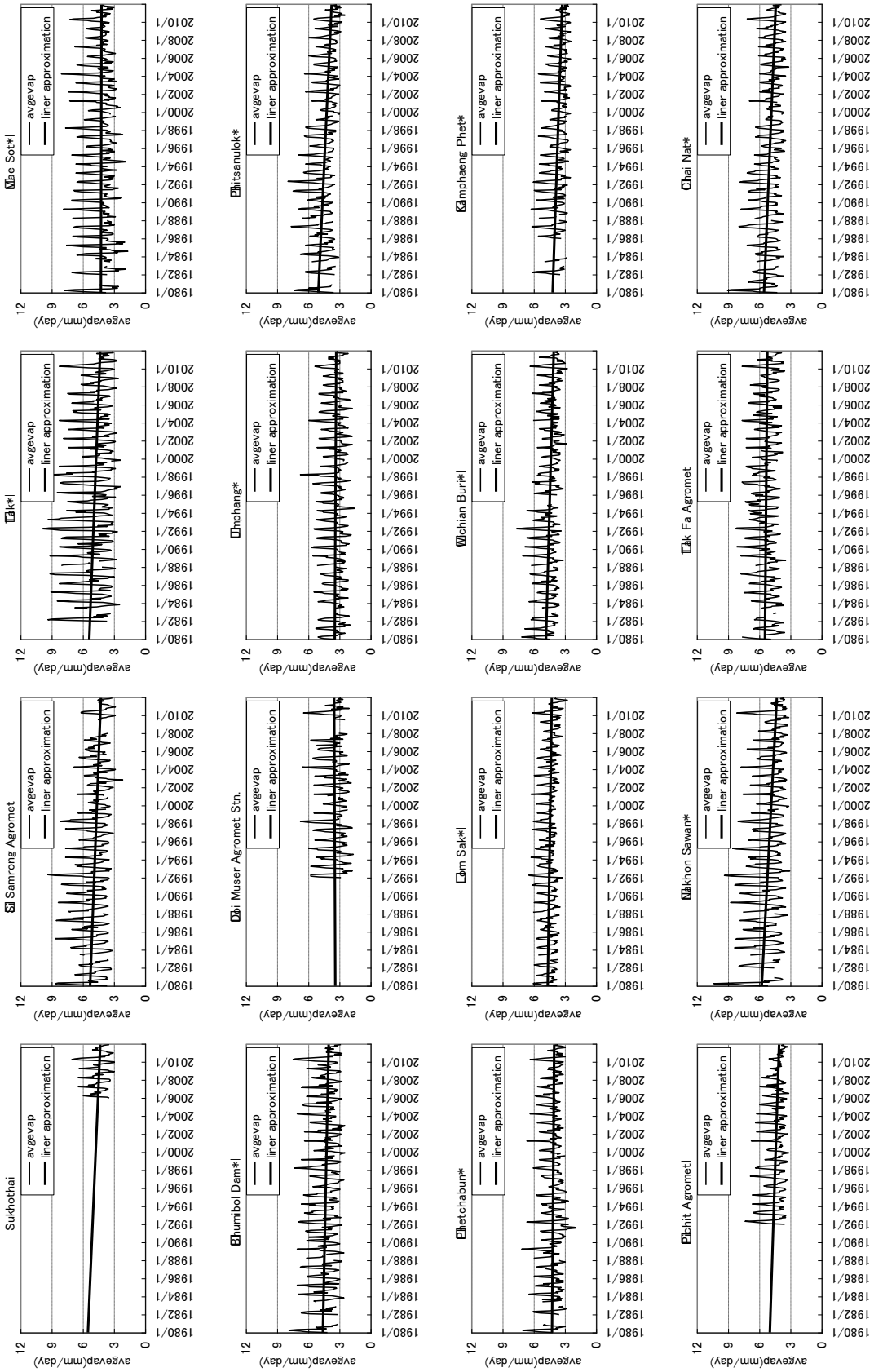


Figure C7.2.3 Evapotranspiration (1980-2011) (2)

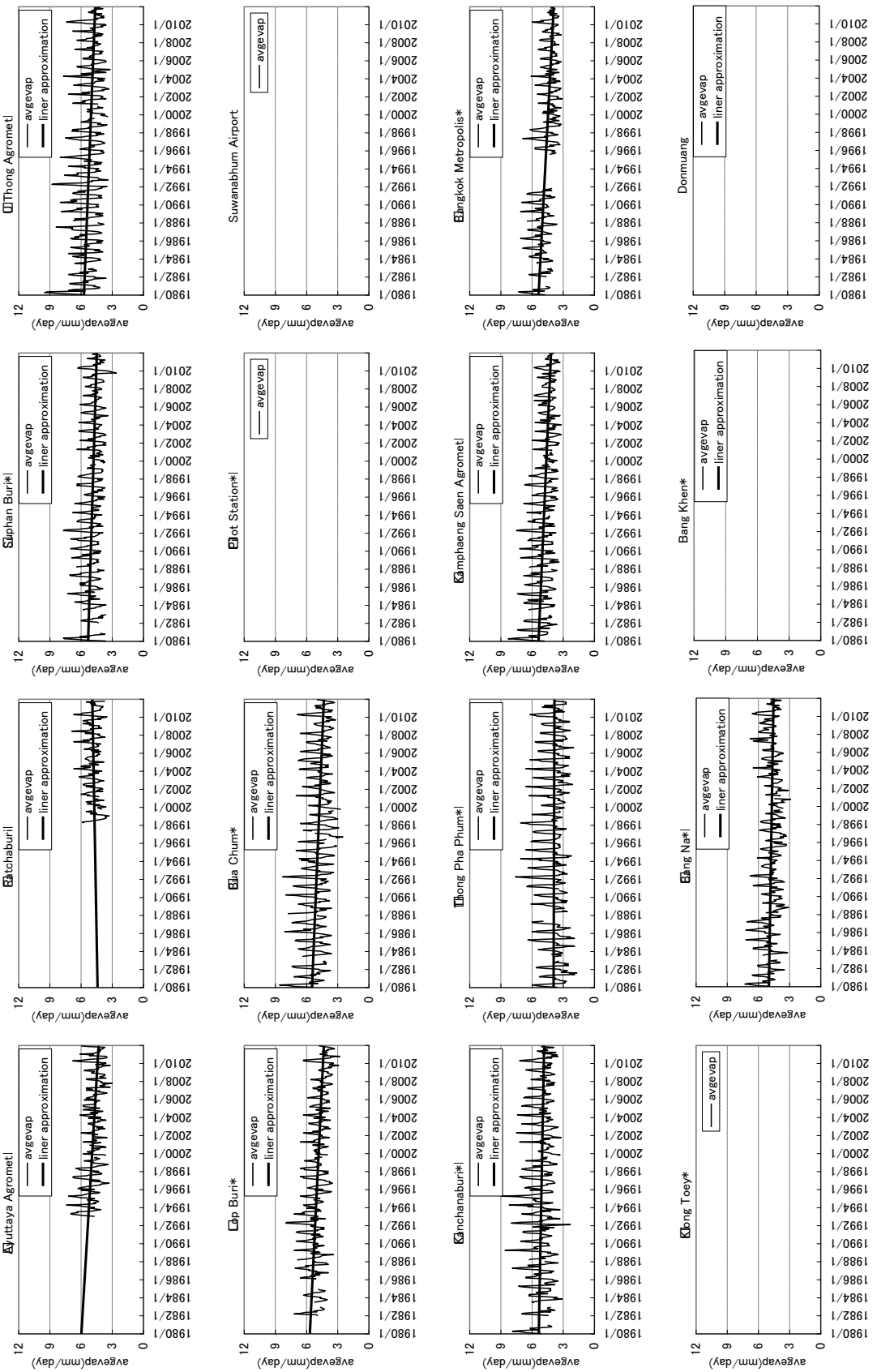


Figure C7.2.4 Evapotranspiration (1970-2011) (3)

C7.3 Isohyetal Line

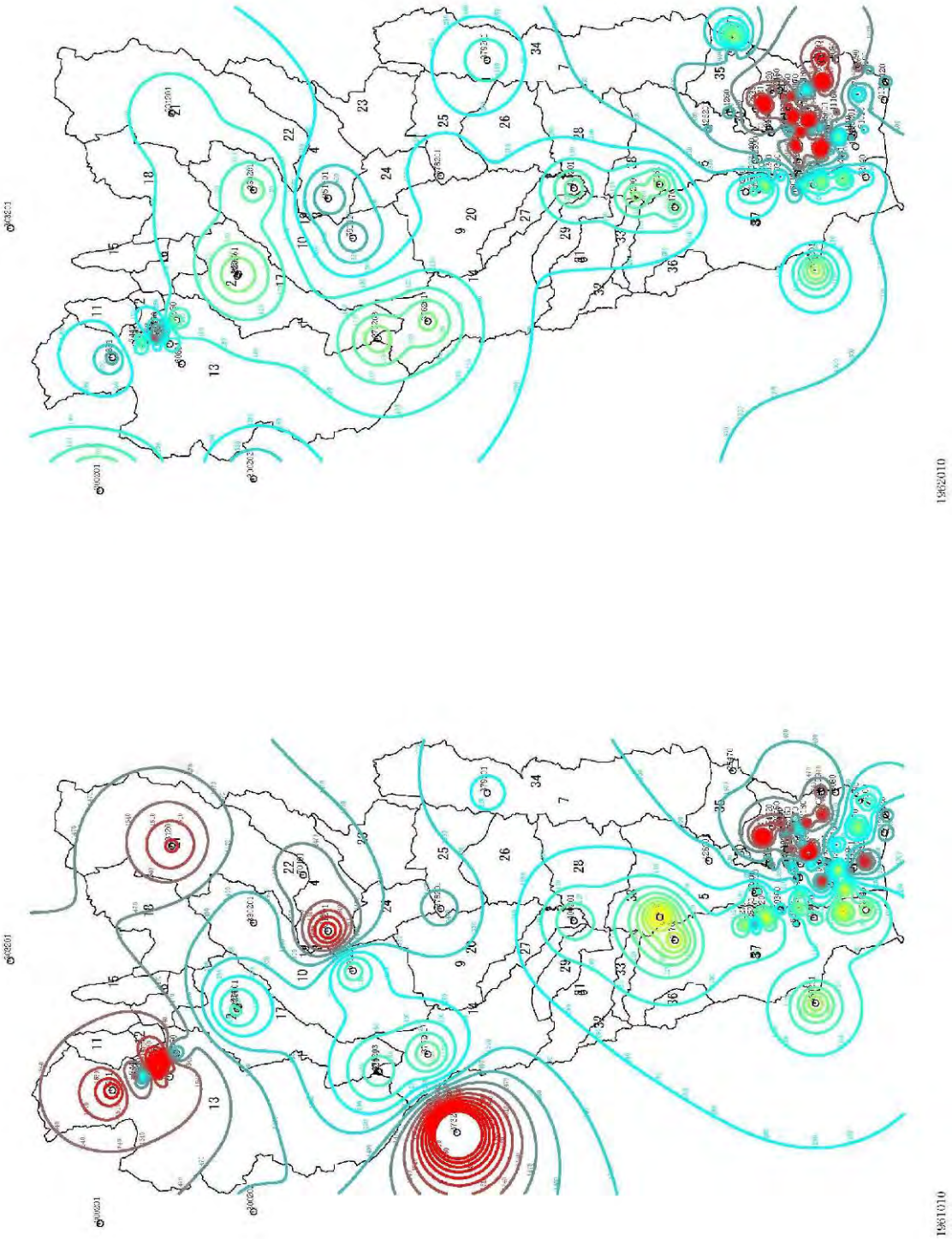


Figure C7.3.1 Isohyetal Line (1961, 1962)

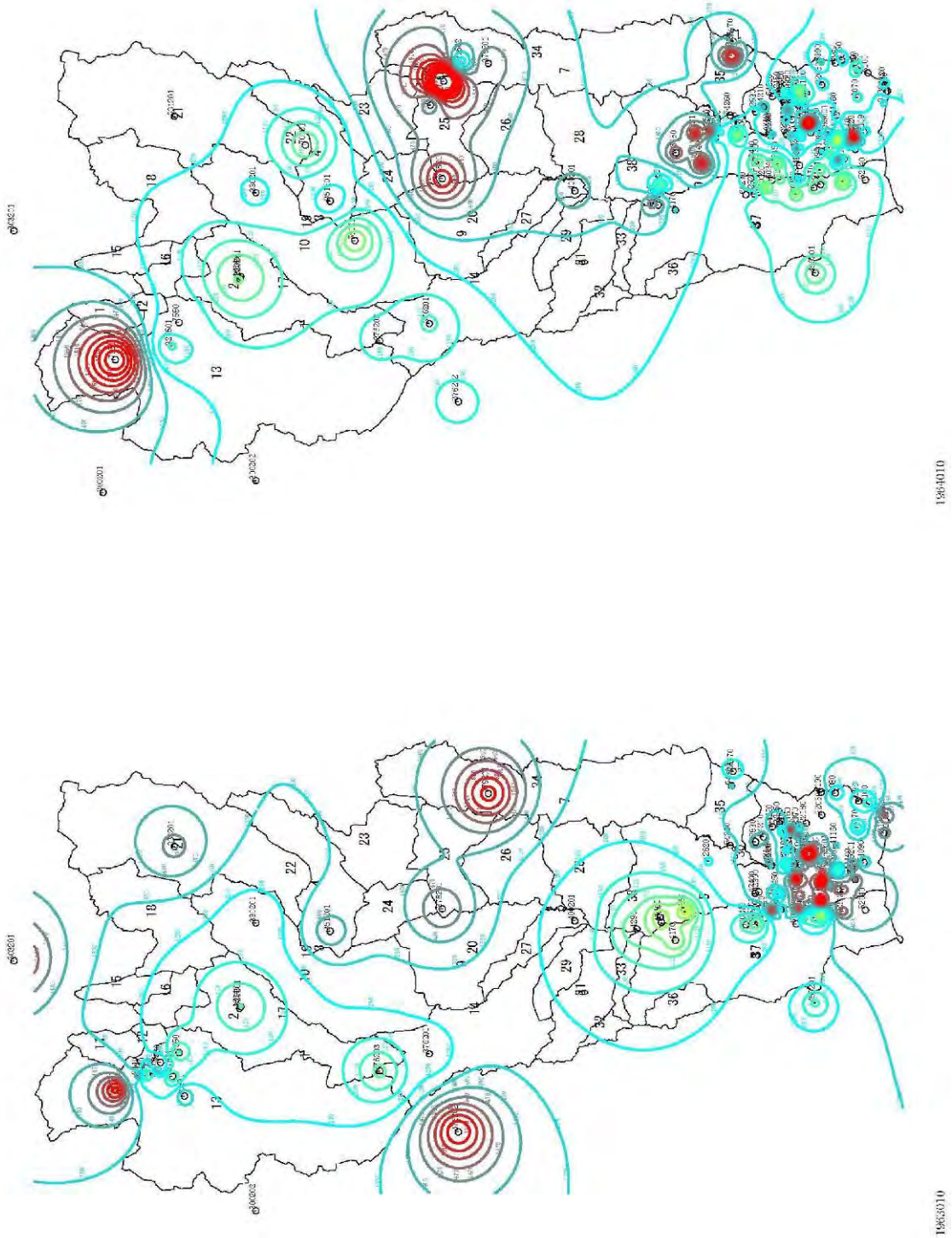


Figure C7.3.2 Isohyetal Line (1963, 1964)

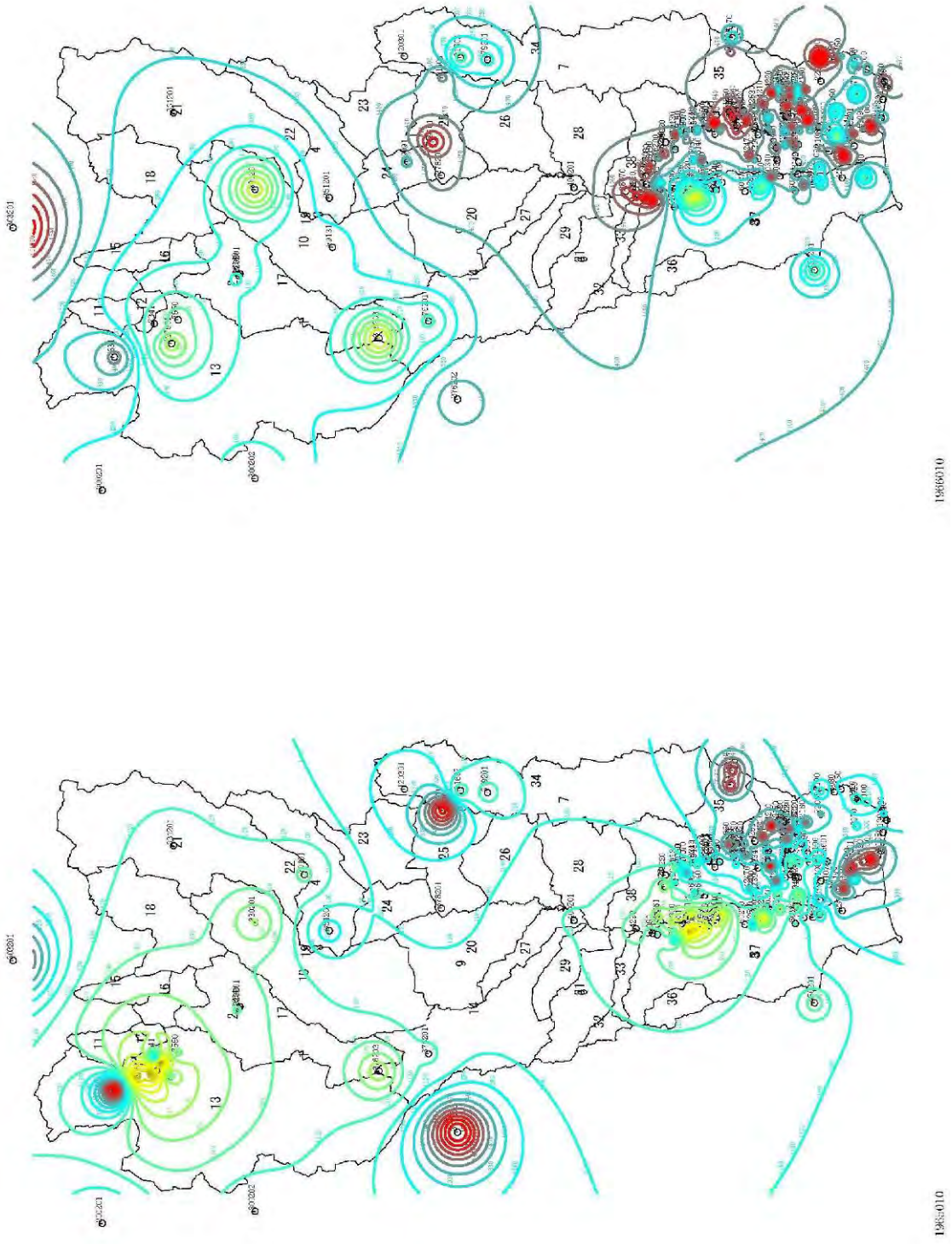


Figure C7.3.3 Isohyetal Line (1965, 1966)

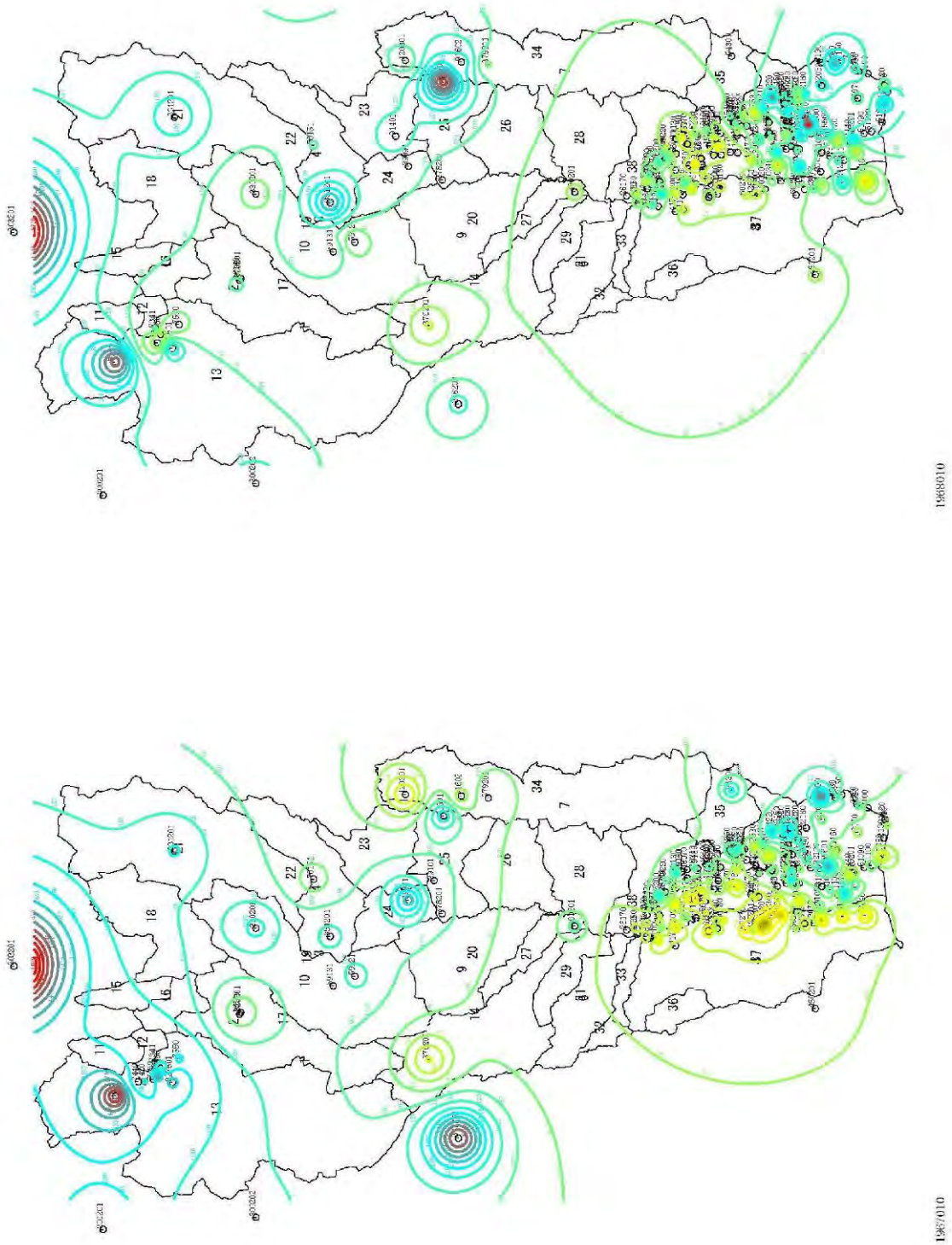


Figure C7.3.4 Isohyetal Line (1967, 1968)

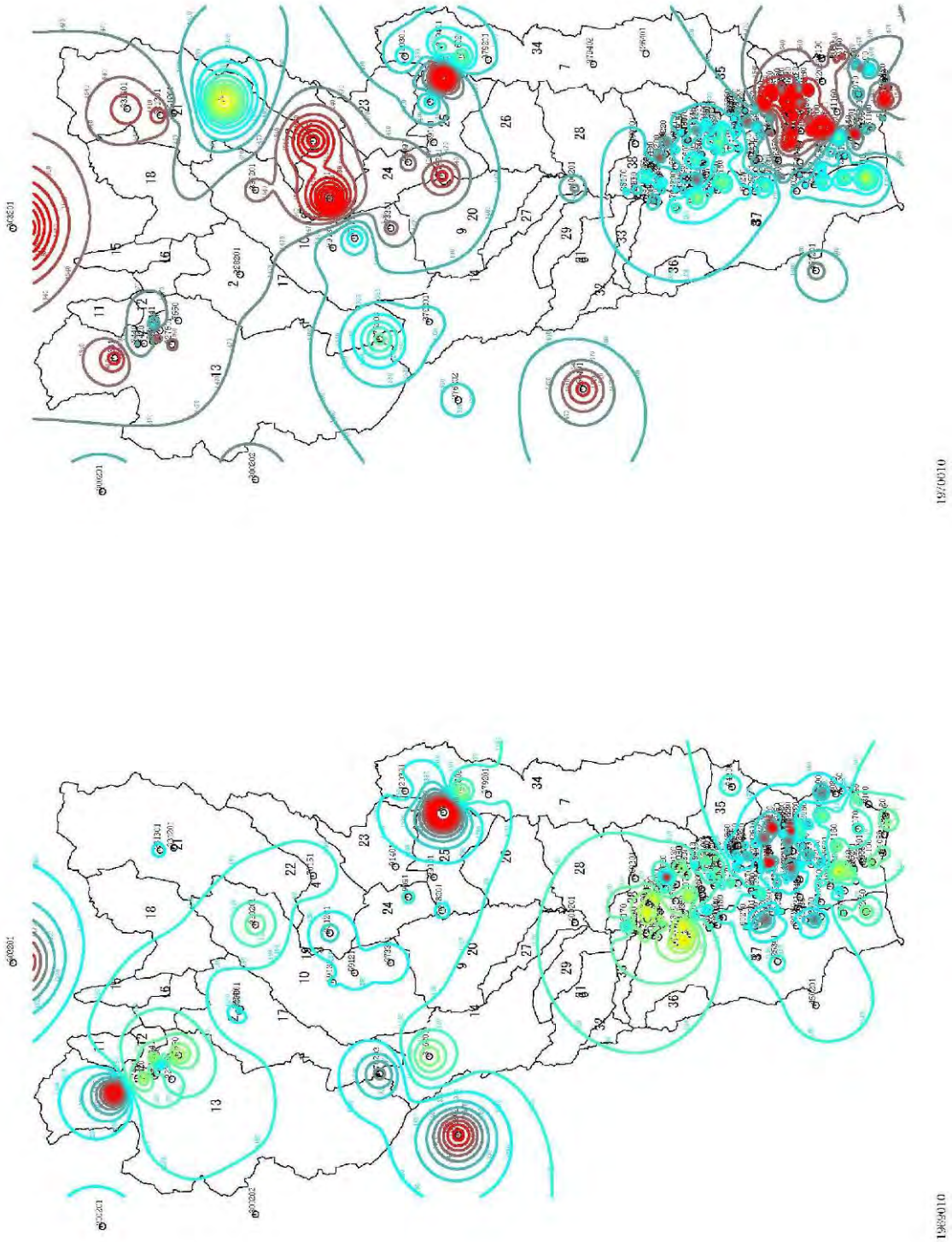


Figure C7.3.5 Isohyetal Line (1969, 1970)

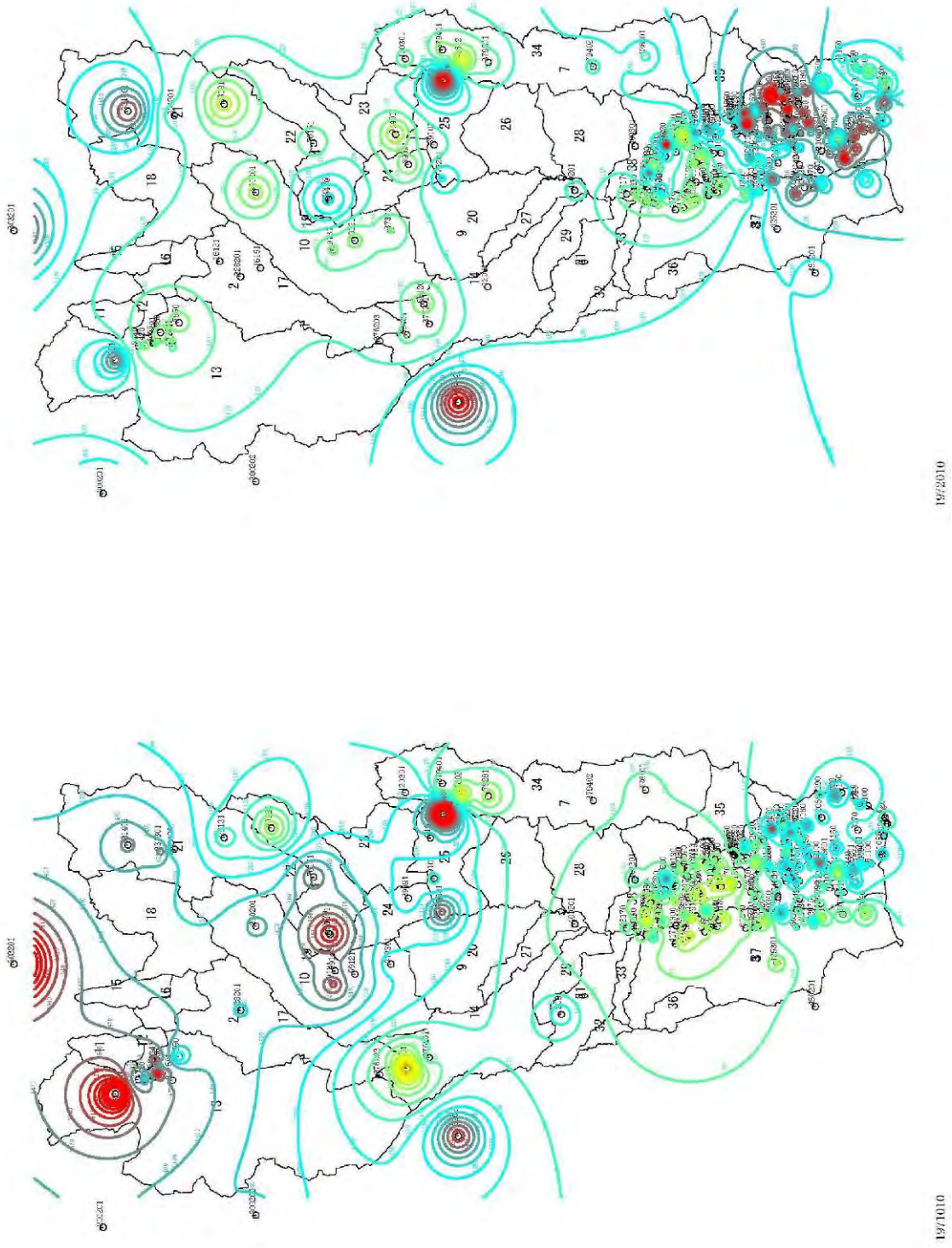


Figure C7.3.6 Isohyetal Line (1971, 1972)

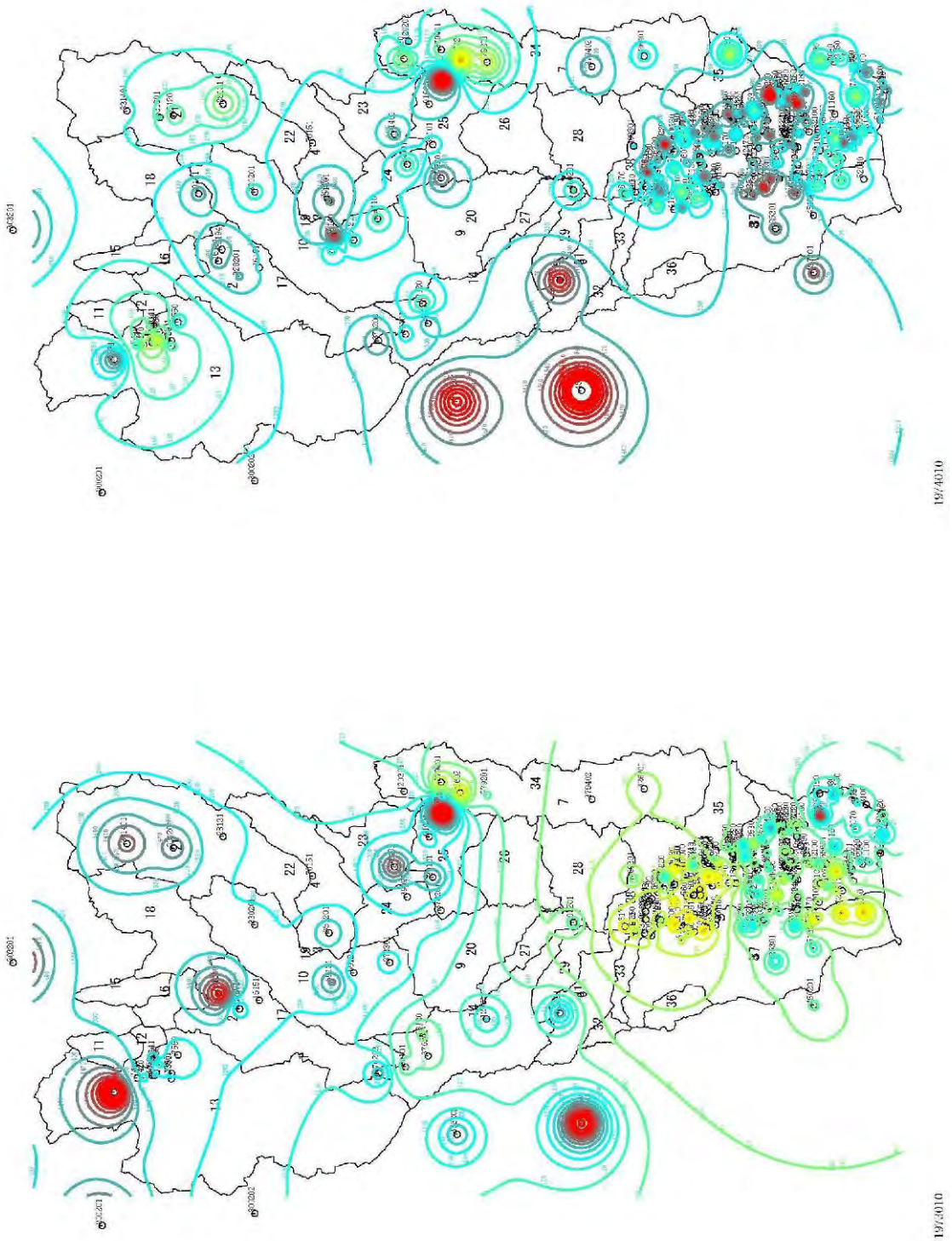


Figure C7.3.7 Isohyetal Line (1973, 1974)

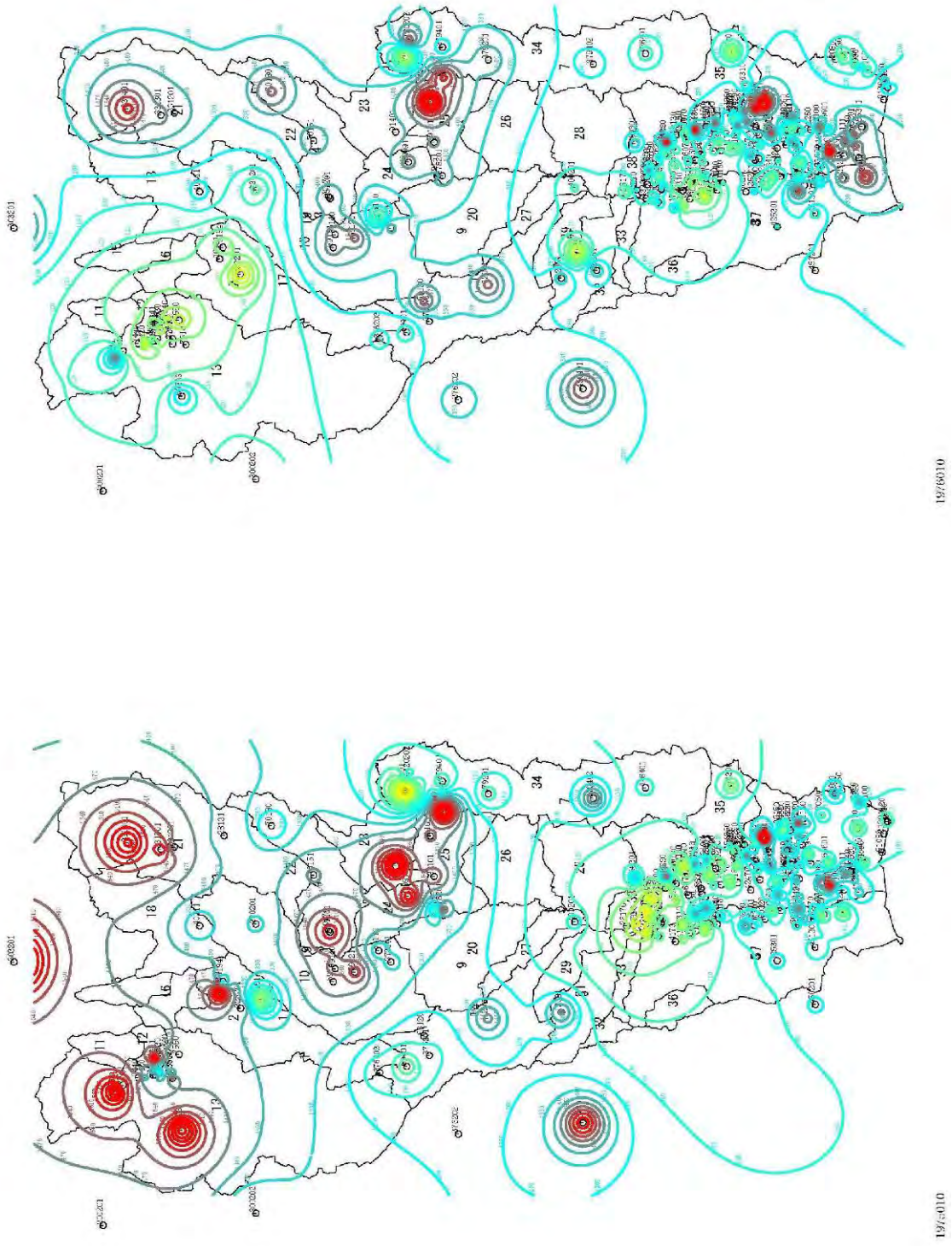


Figure C7.3.8 Isohyetal Line (1975, 1976)

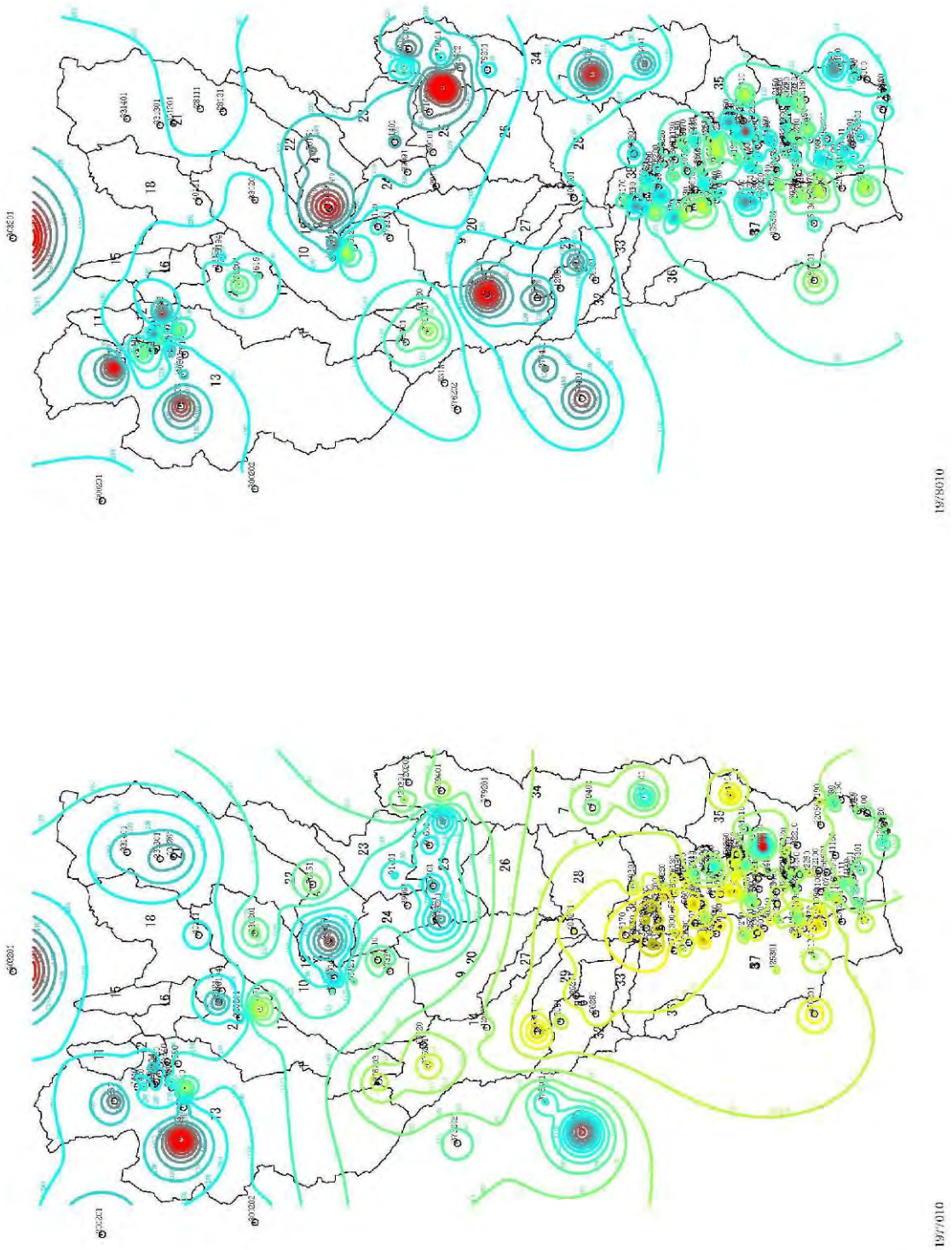


Figure C7.3.9 Isohyetal Line (1977, 1978)

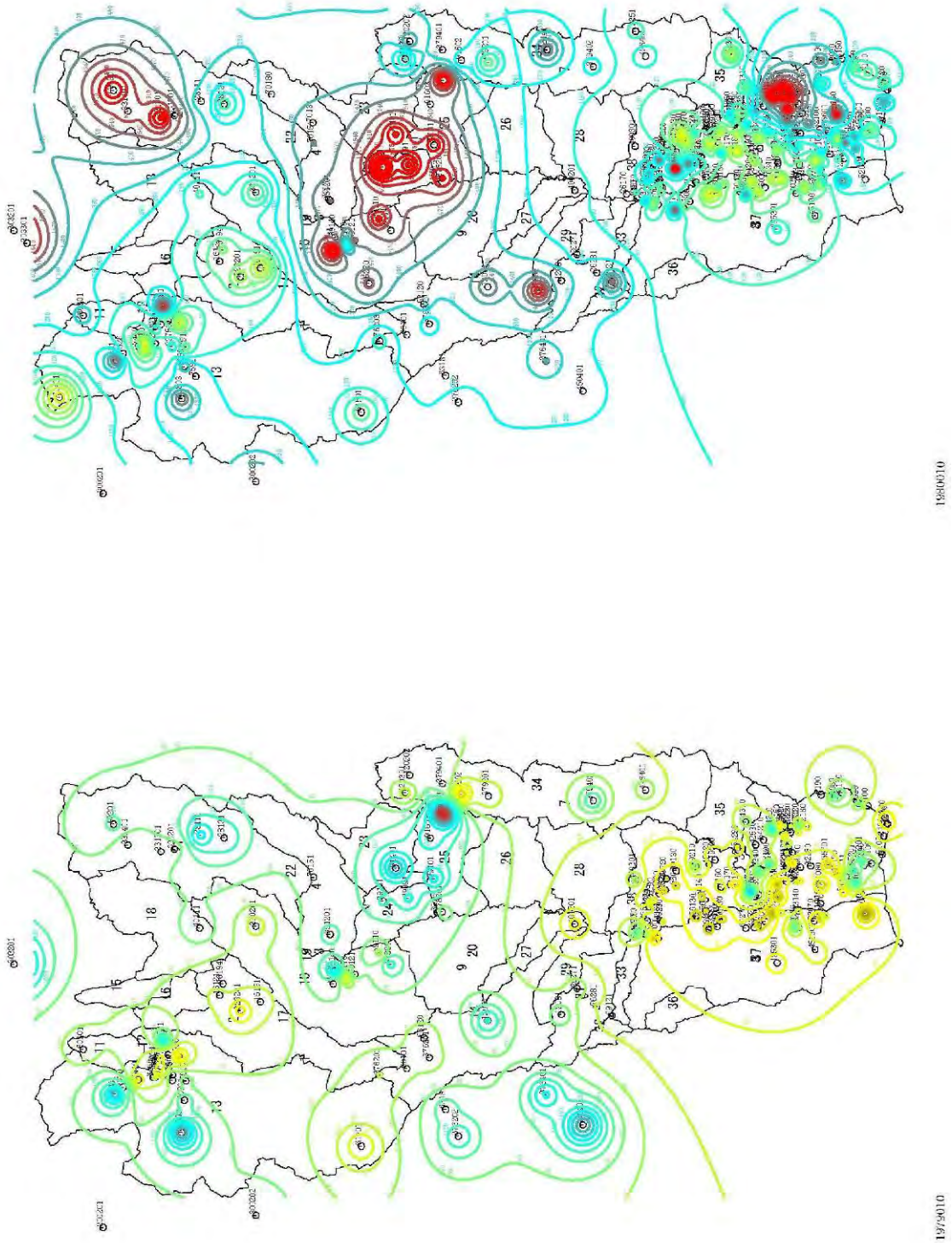


Figure C7.3.10 Isohyetal Line (1979, 1980)

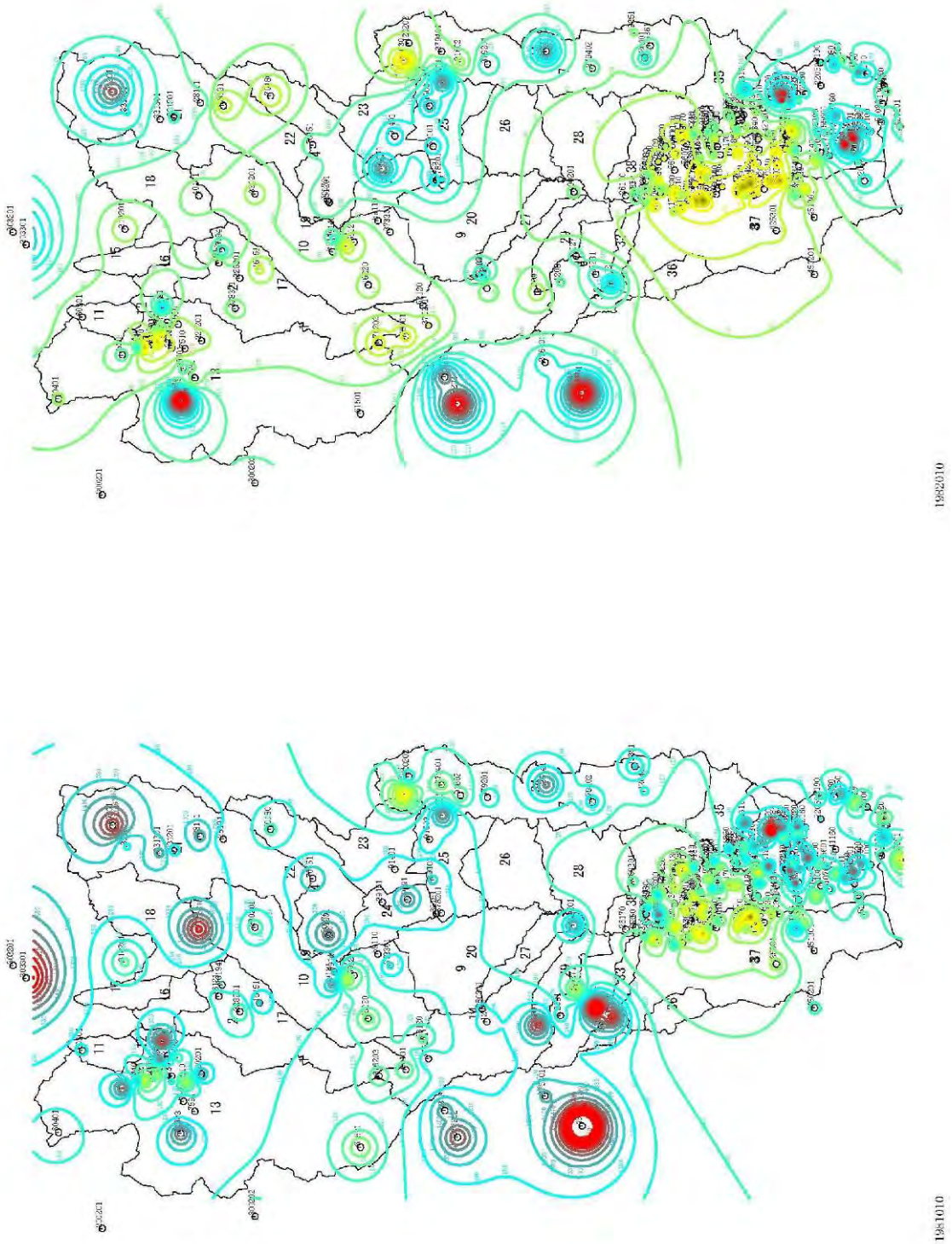


Figure C7.3.11 Isohyetal Line (1981, 1982)

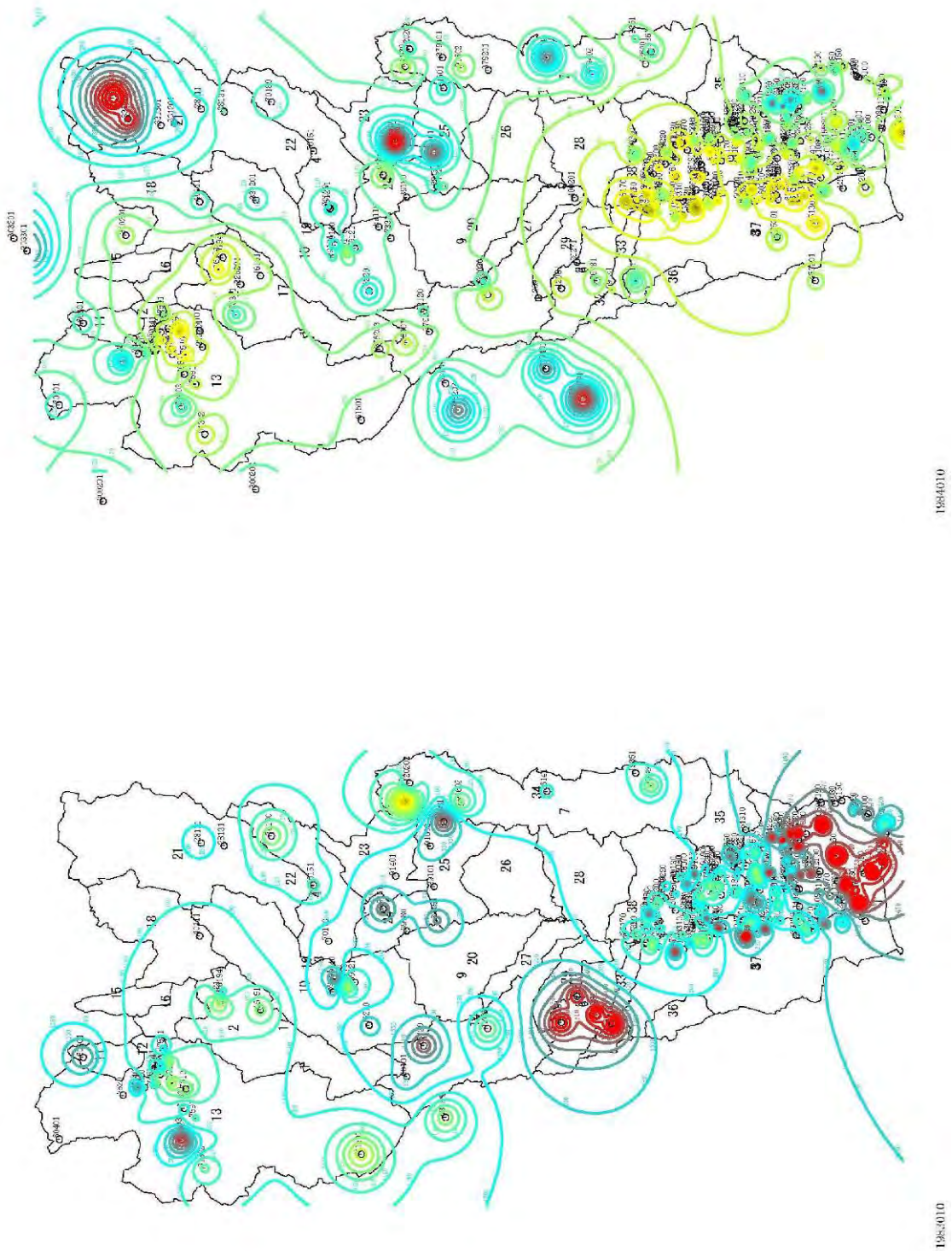


Figure C7.3.12 Isohyetal Line (1983, 1984)

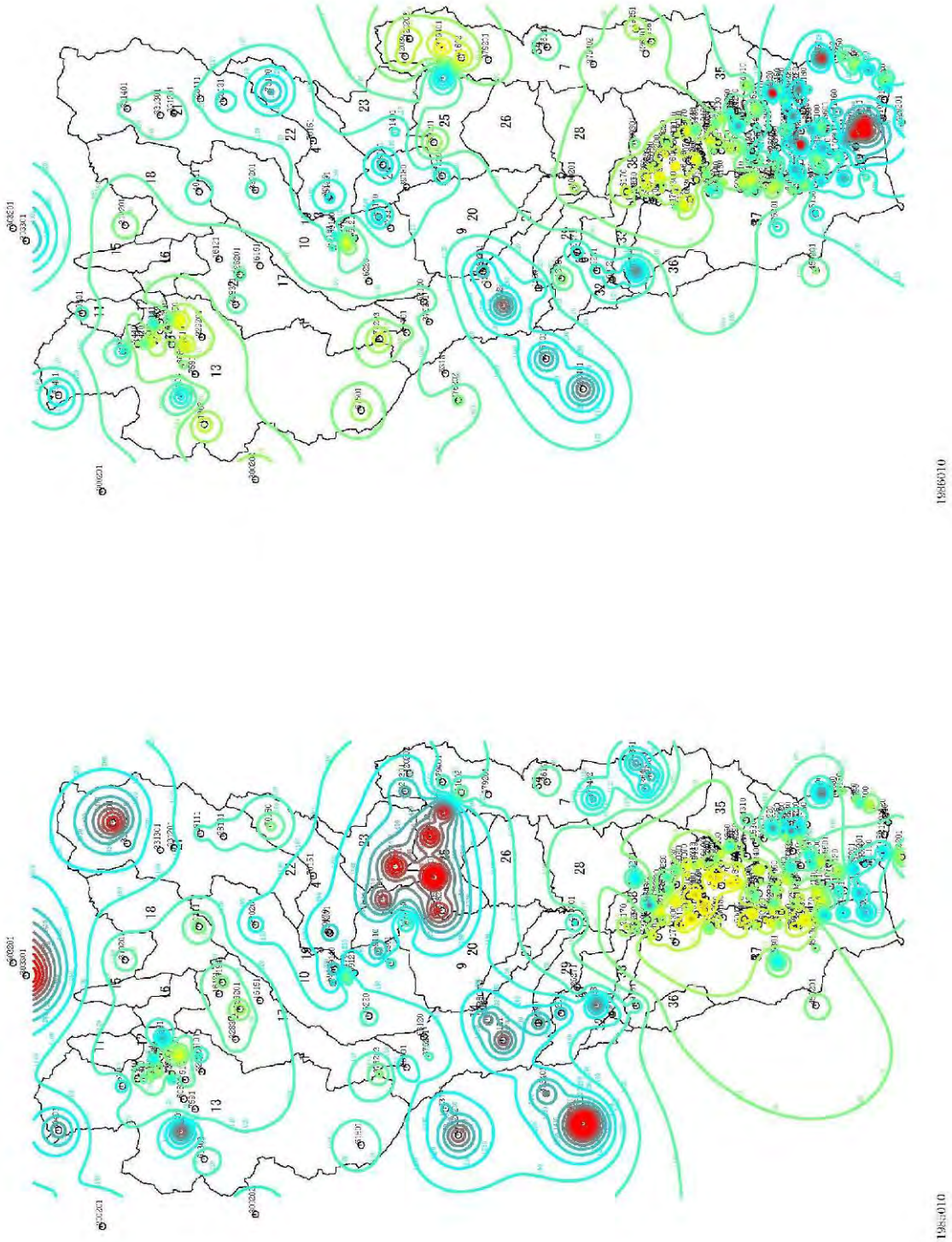


Figure C7.3.13 Isohyetal Line (1985, 1986)

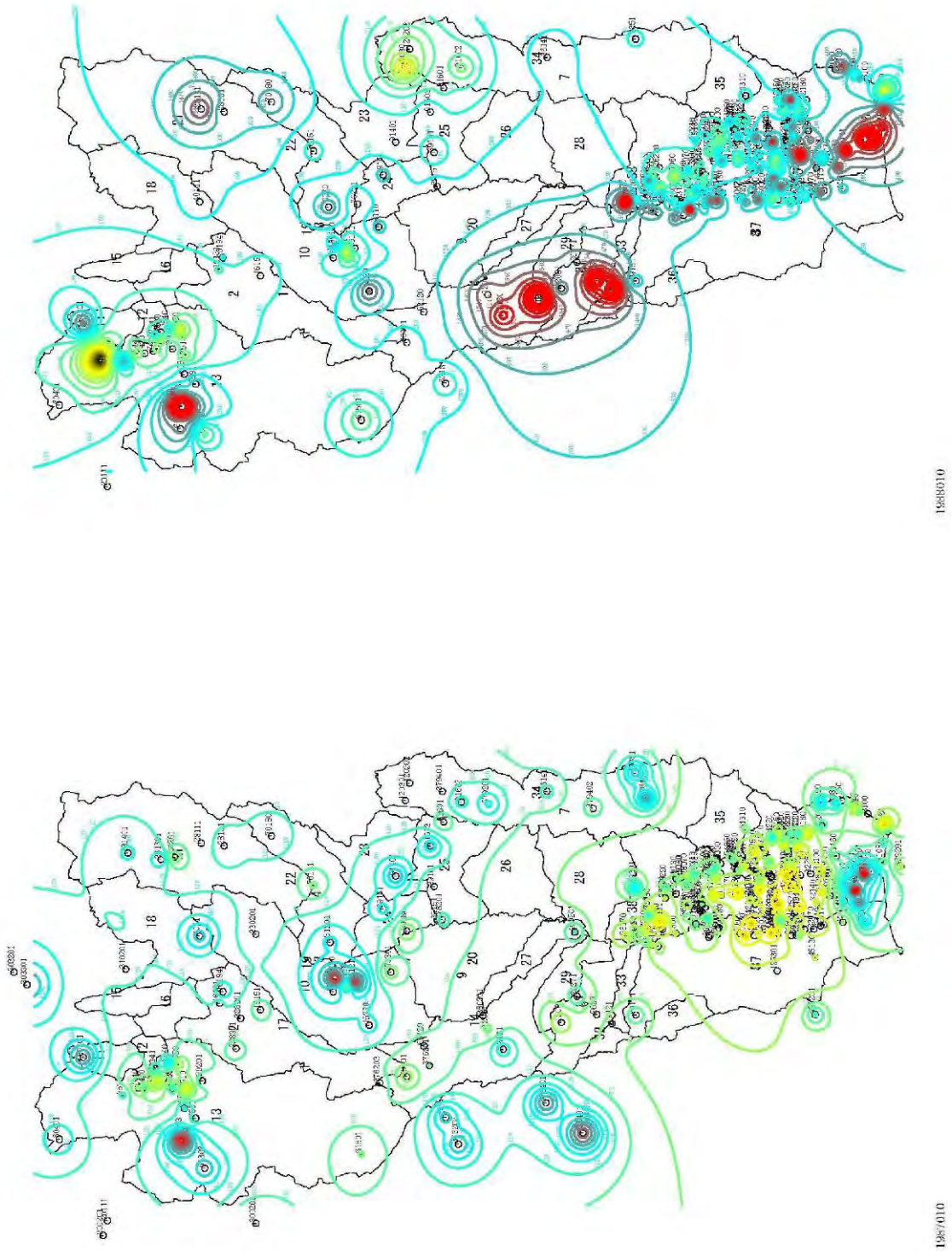


Figure C7.3.14 Isohyetal Line (1987, 1988)

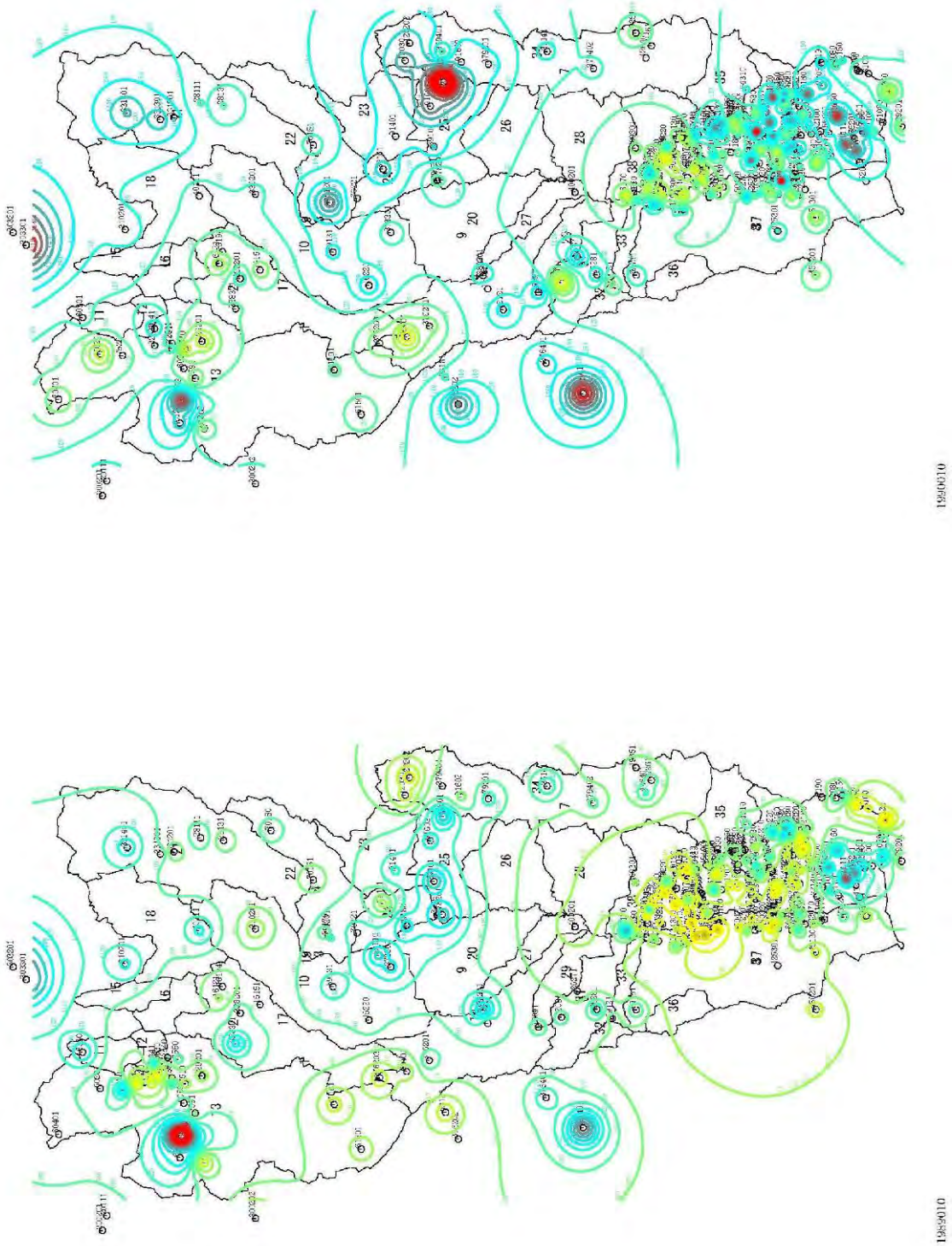


Figure C7.3.15 Isohyetal Line (1989, 1990)

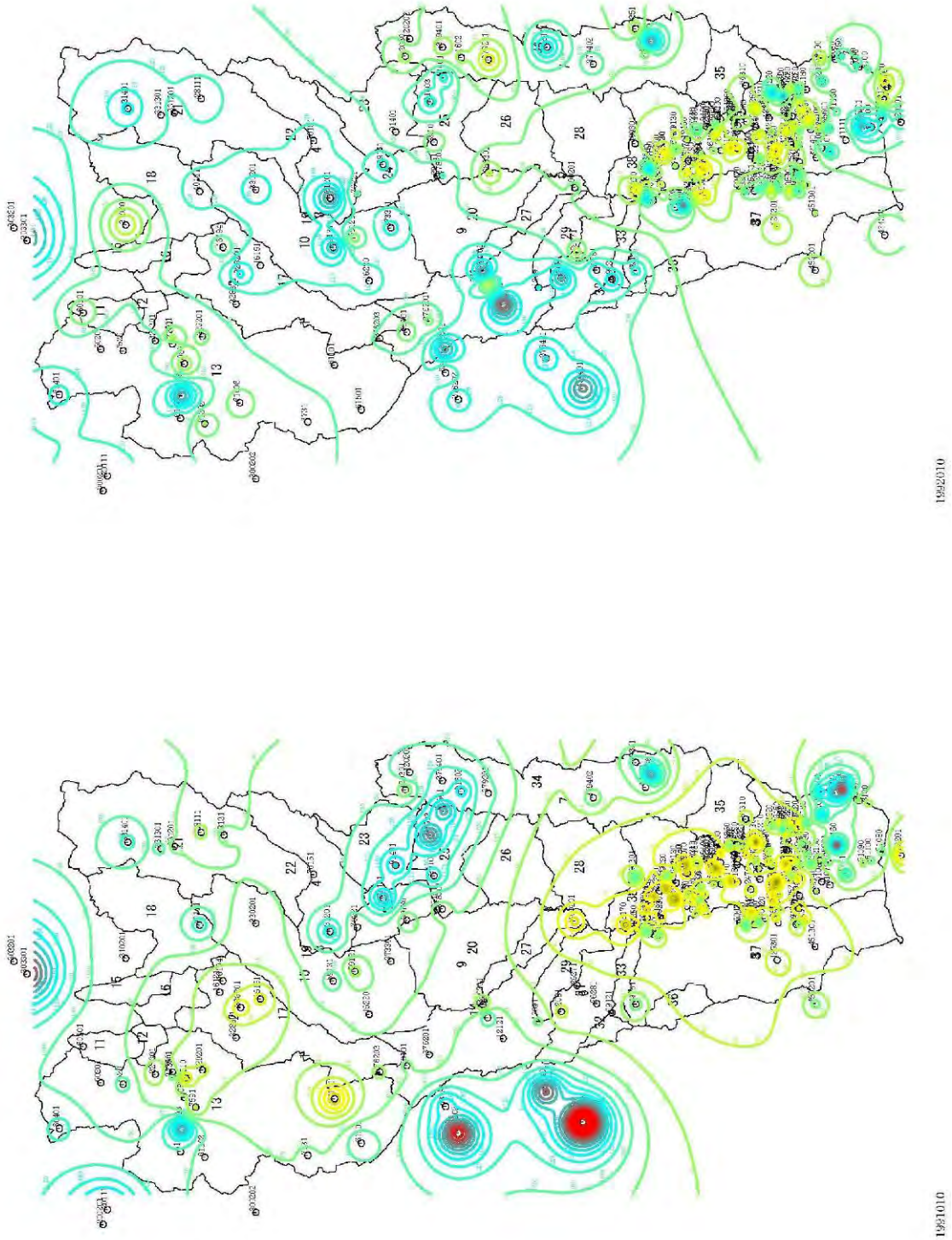


Figure C7.3.16 Isohyetal Line (1991, 1992)

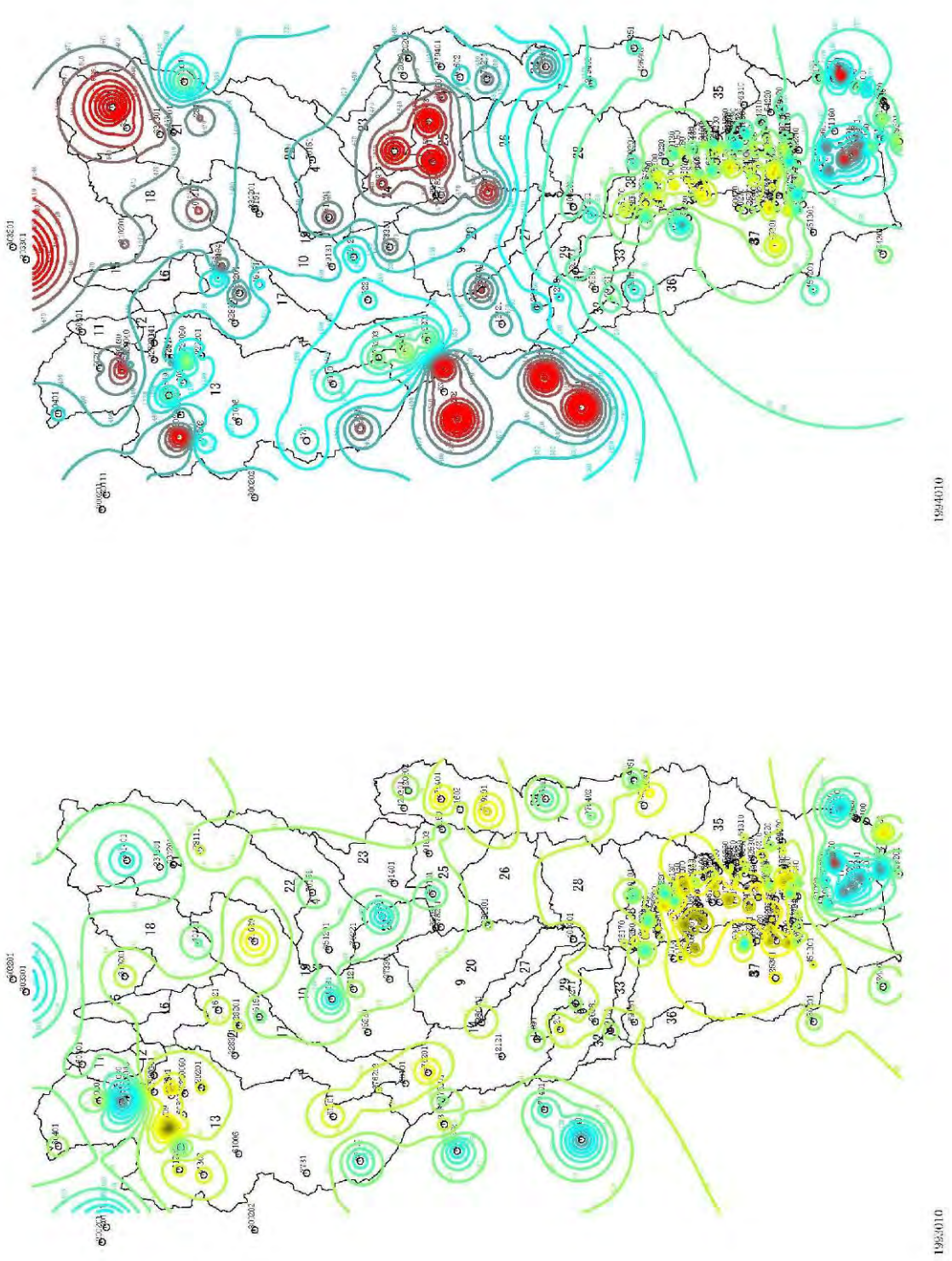


Figure C7.3.17 Isohyetal Line (1993, 1994)

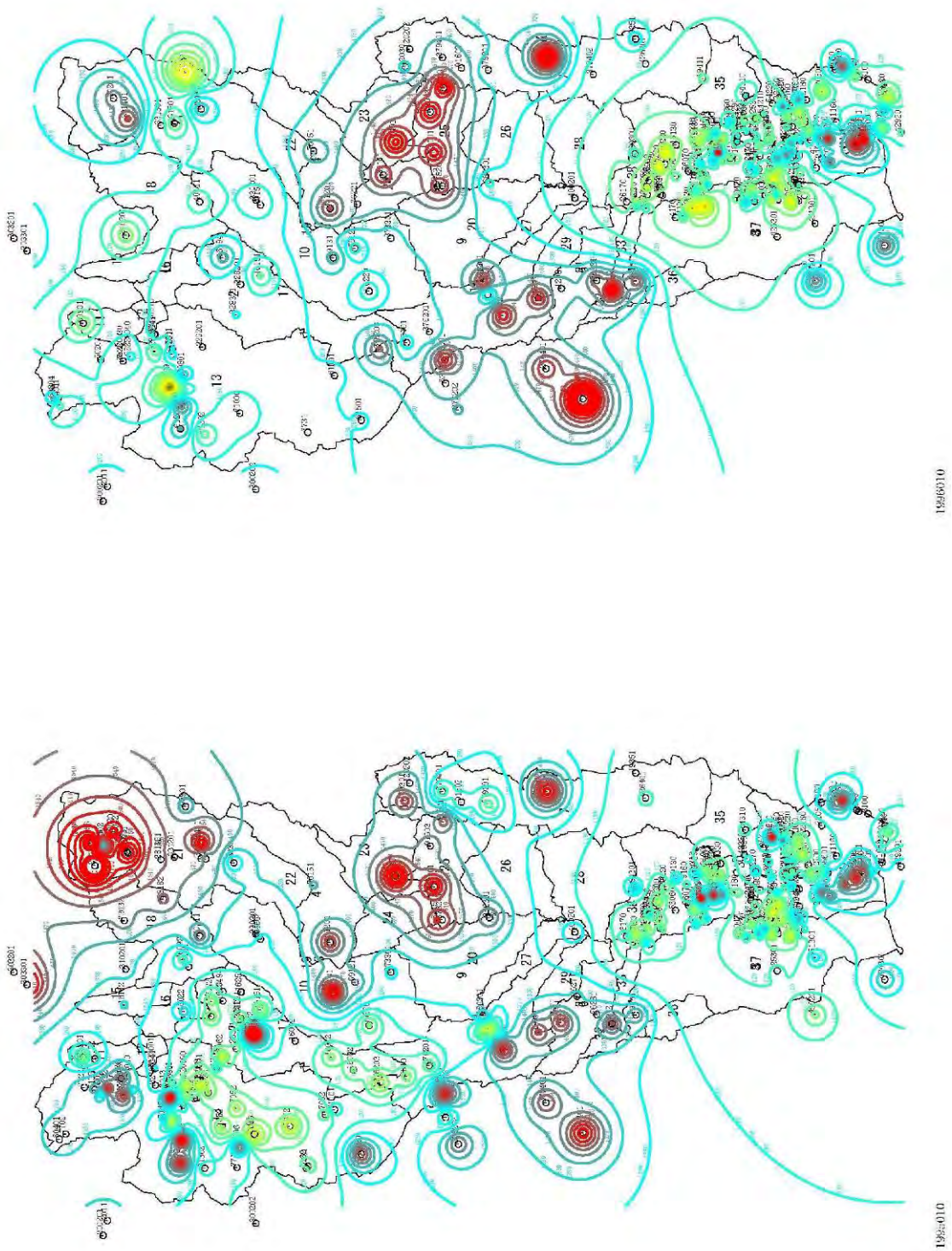


Figure C7.3.18 Isohyetal Line (1995, 1996)

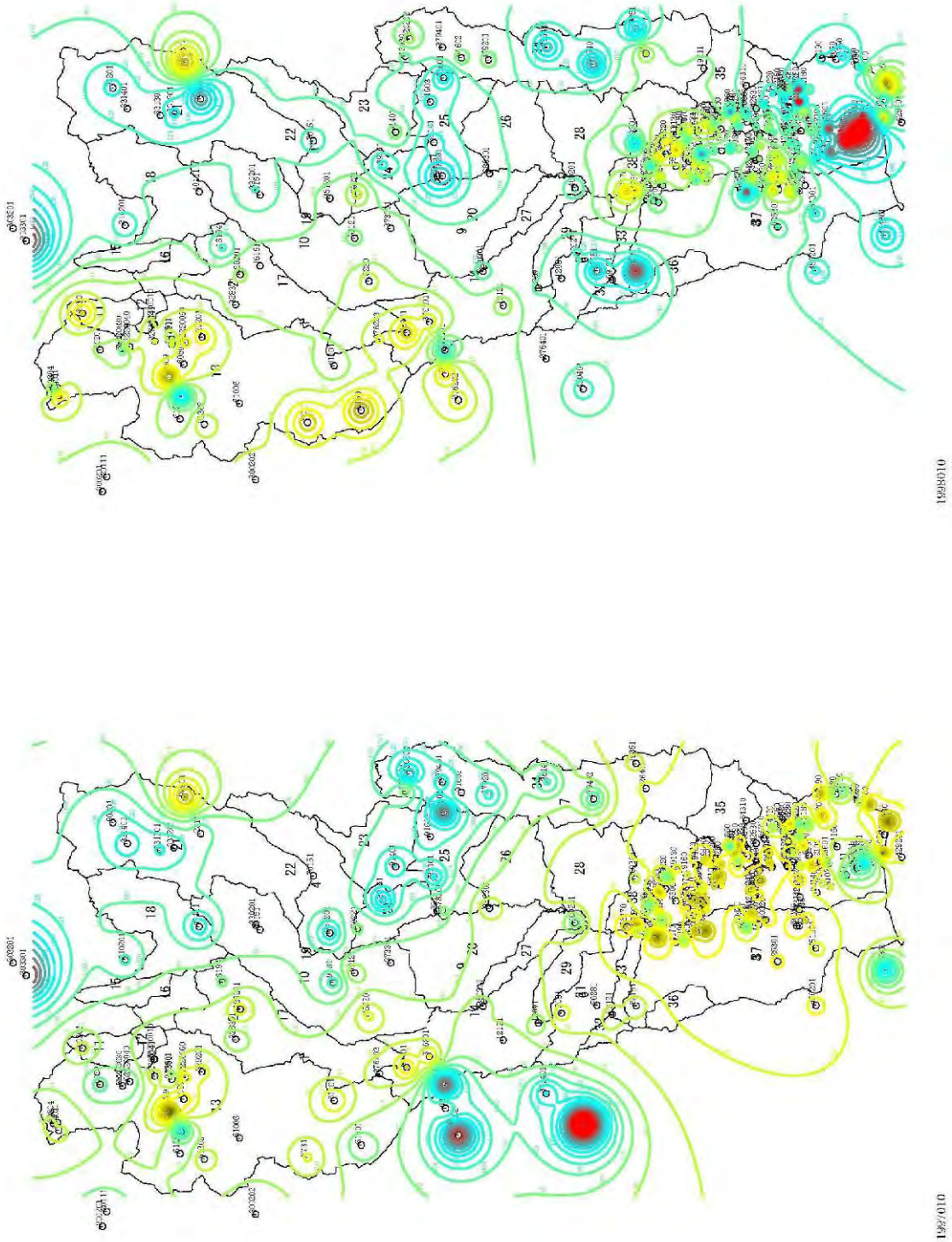


Figure C7.3.19 Isohyetal Line (1997, 1998)

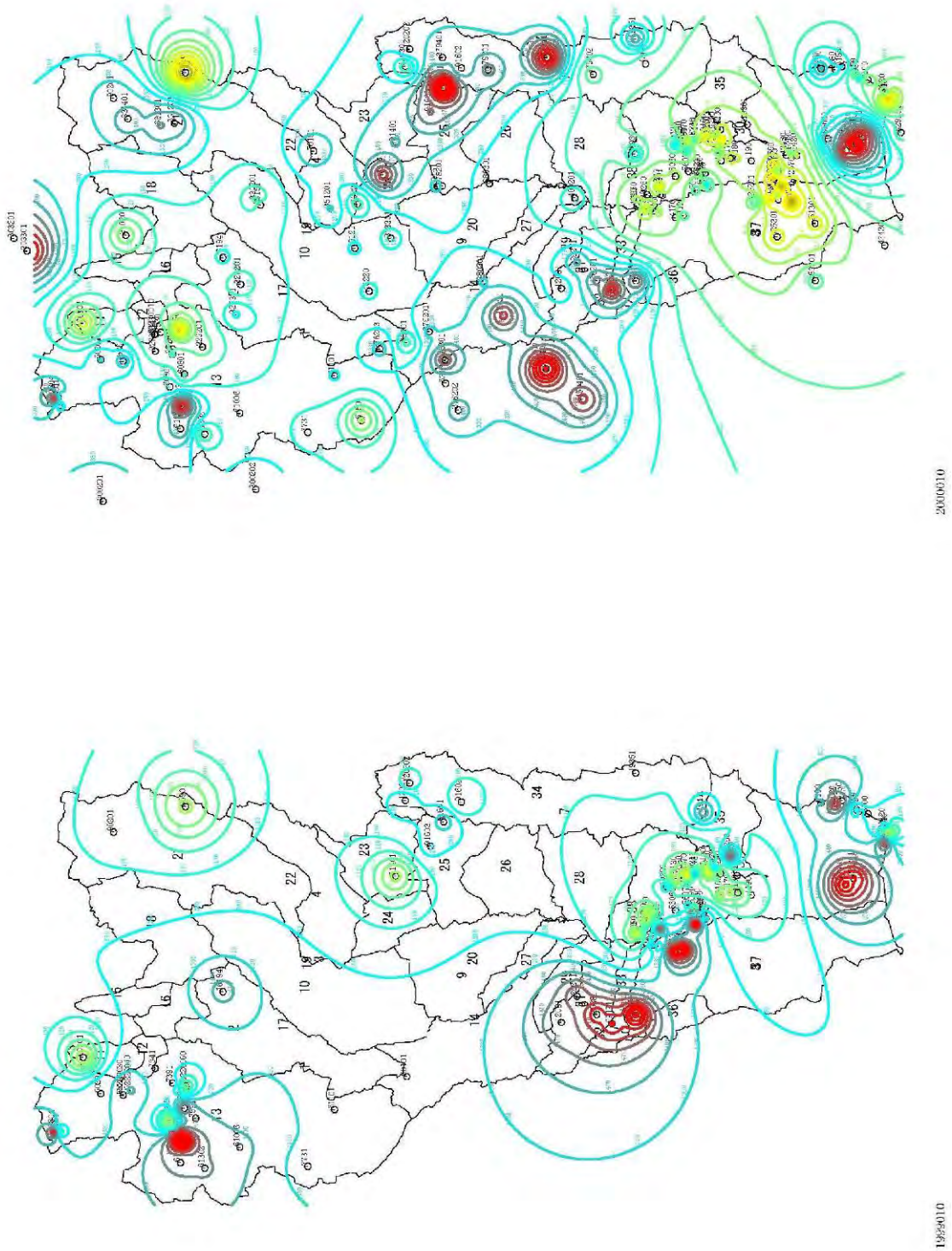


Figure C7.3.20 Isohyetal Line (1999, 2000)

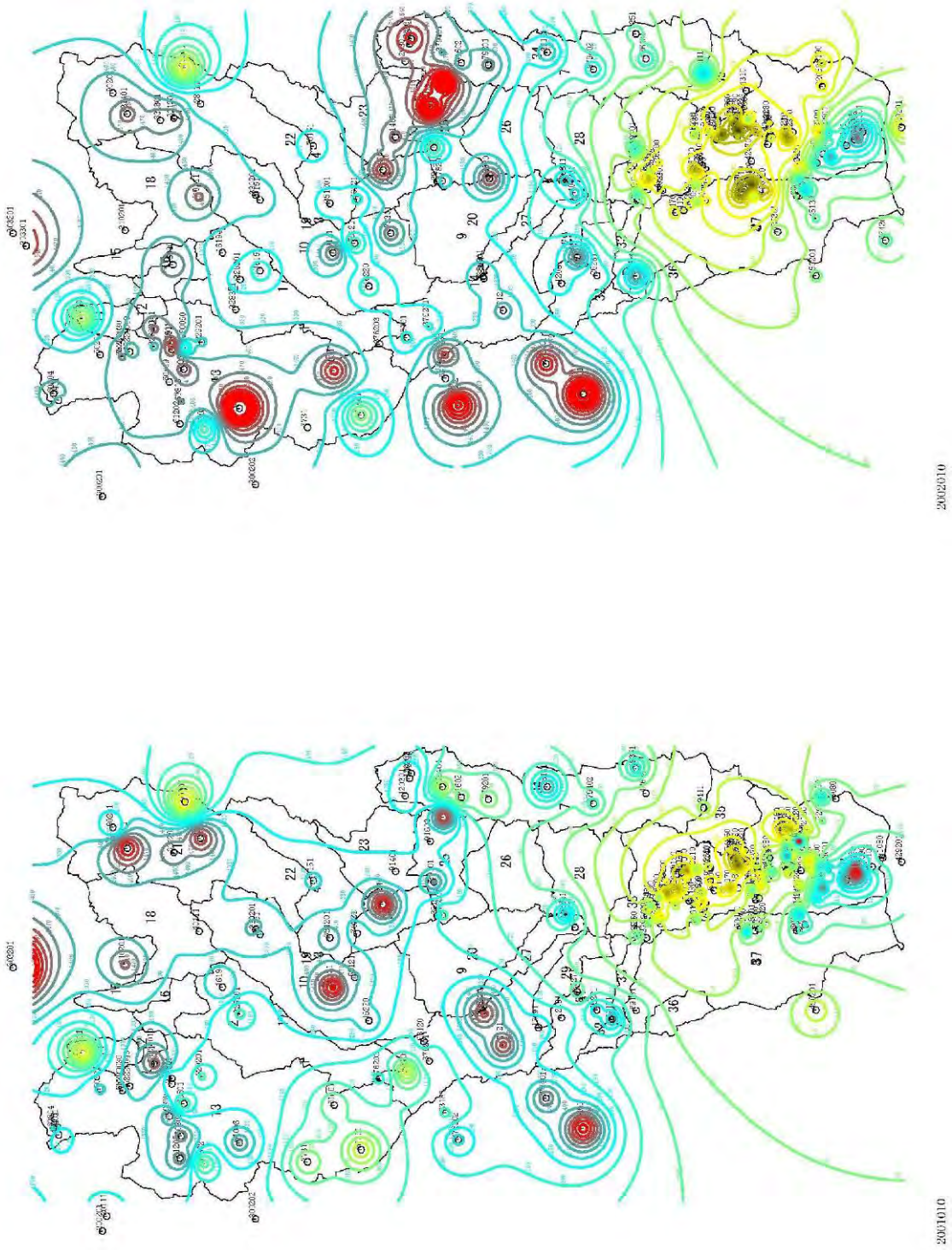


Figure C7.3.21 Isohyetal Line (2001, 2002)

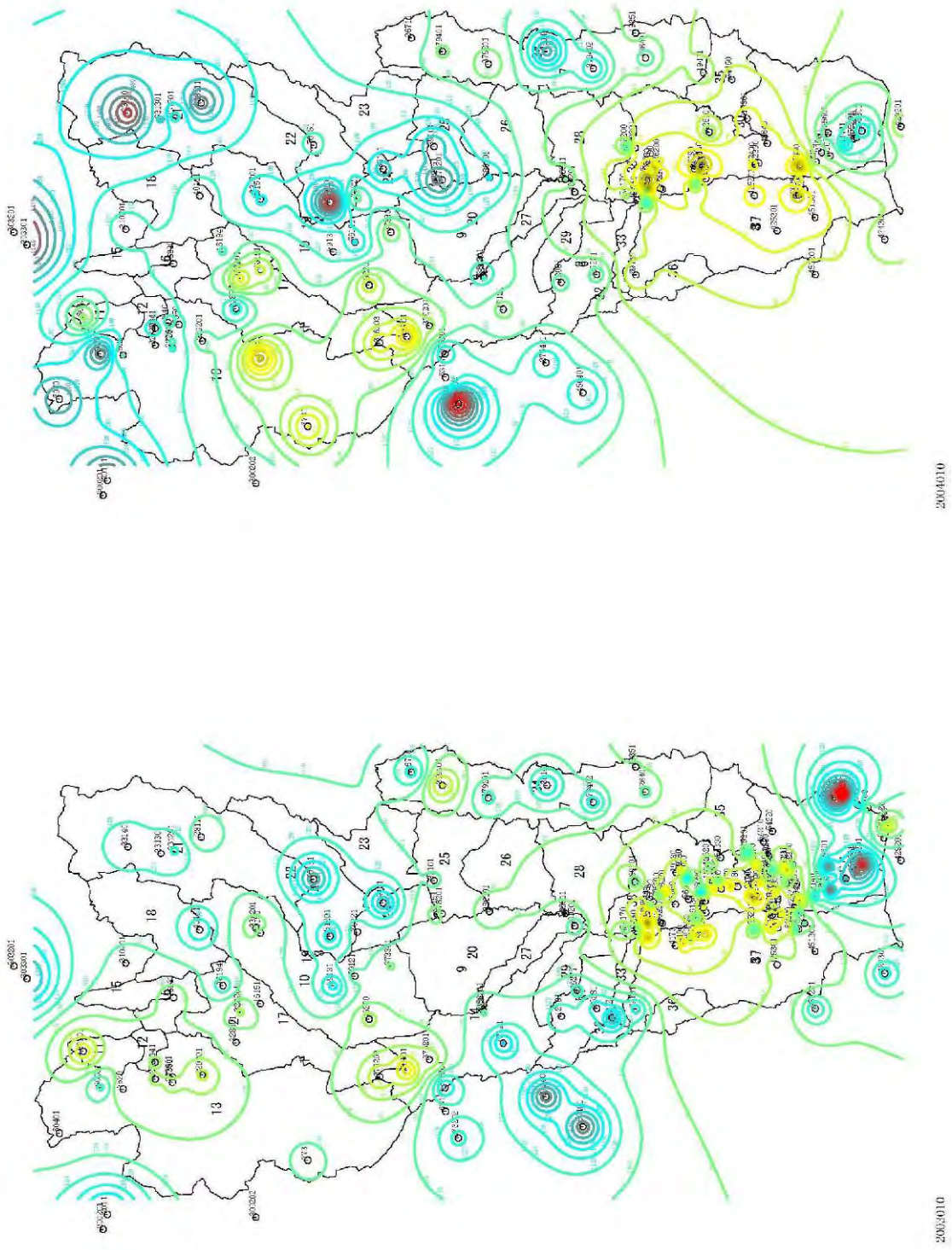


Figure C7.3.22 Isohyetal Line (2003, 2004)

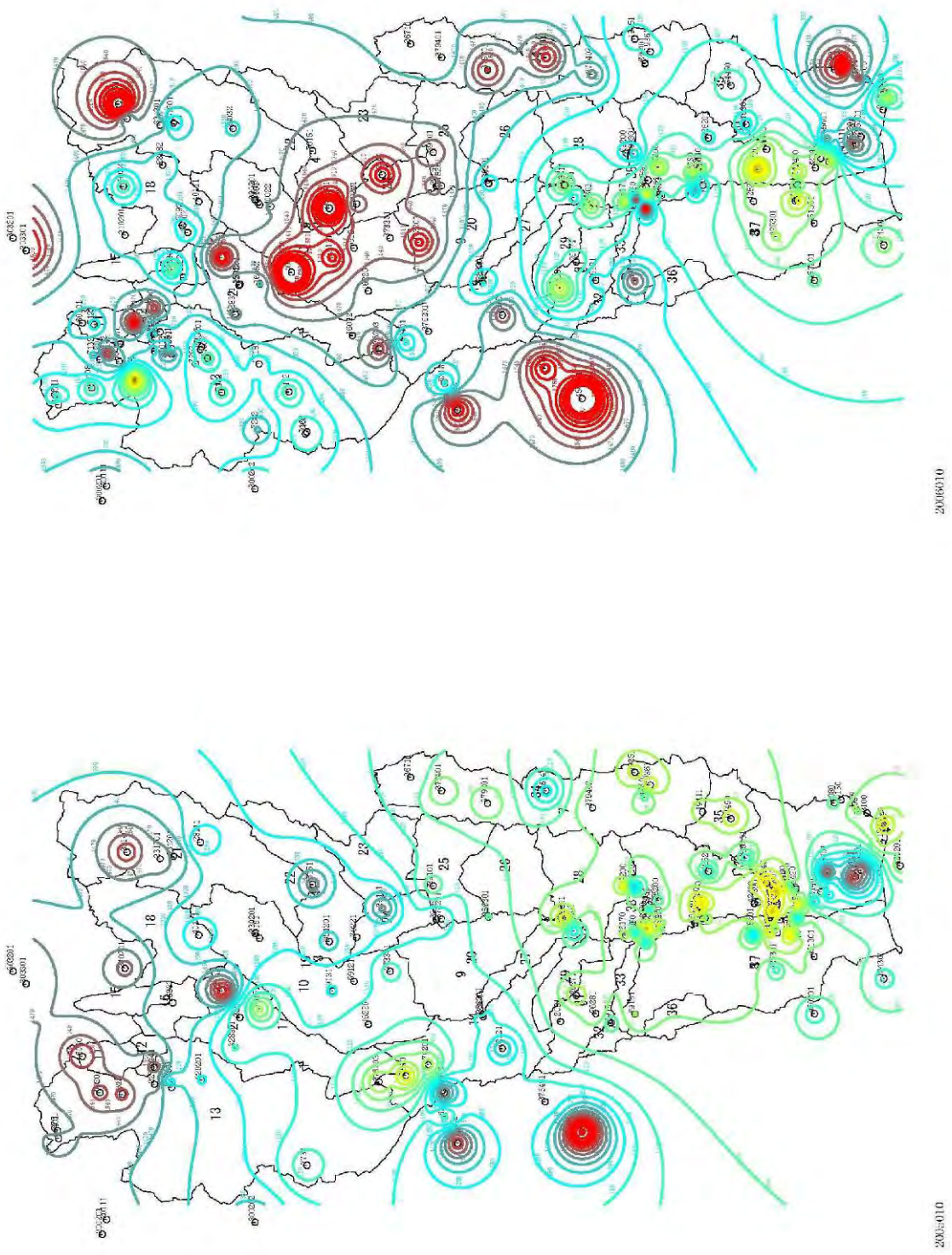


Figure C7.3.23 Isohyetal Line (2005, 2006)

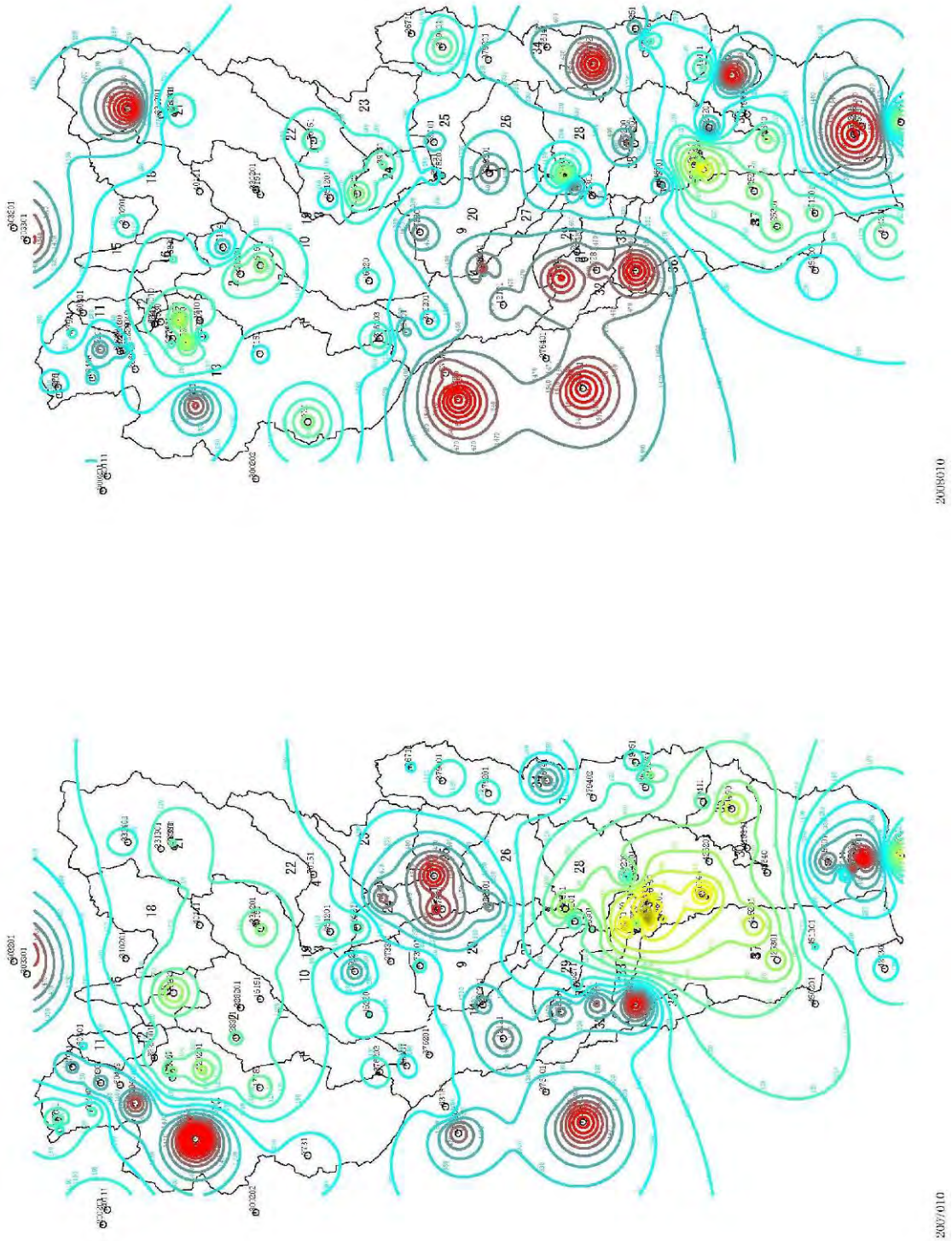


Figure C7.3.24 Isohyetal Line (2007, 2008)

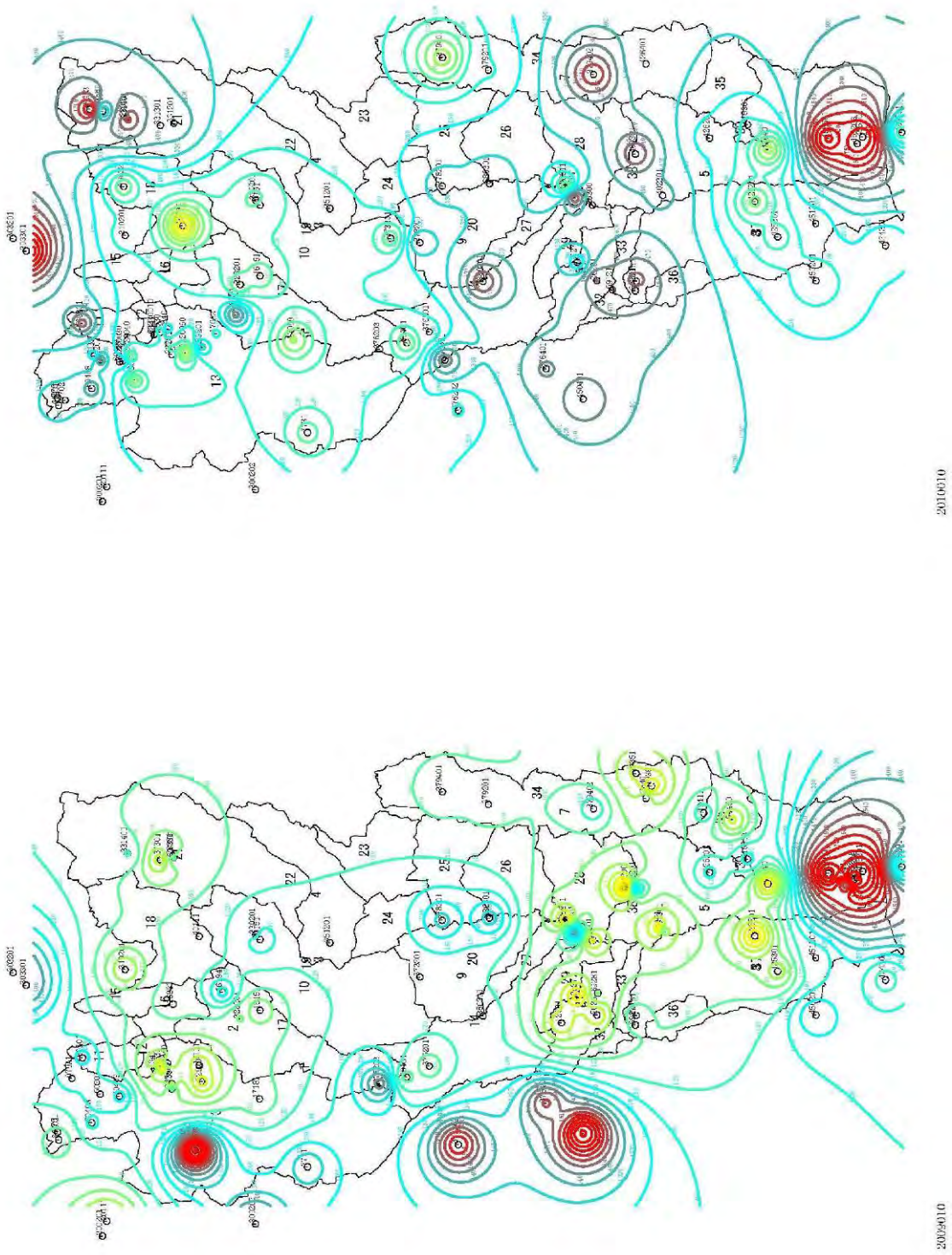


Figure C7.3.25 Isohyetal Line (2009, 2010)

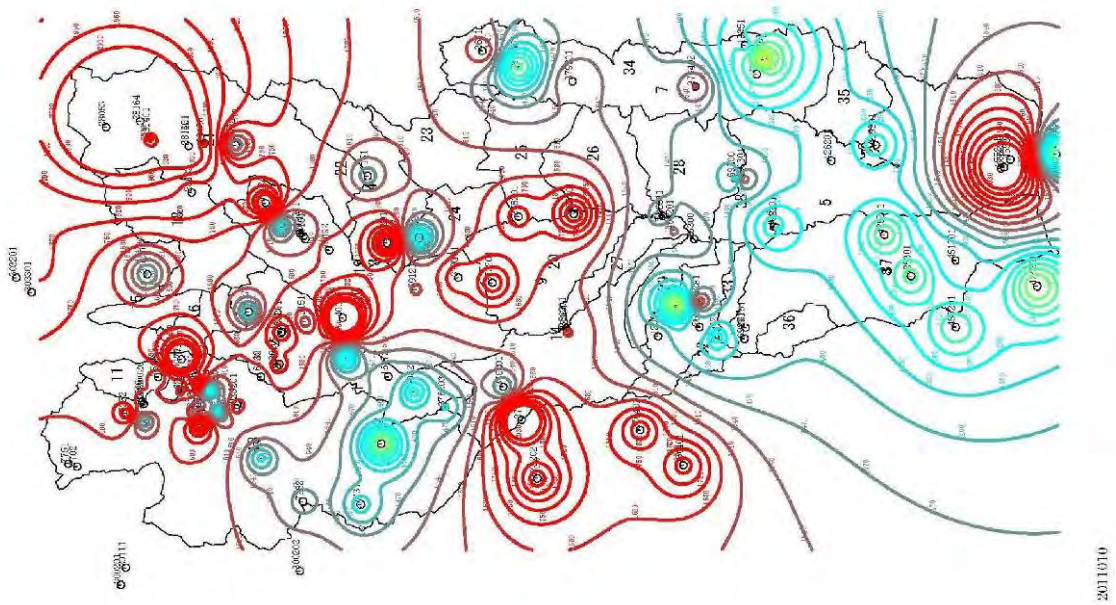


Figure C7.3.26 Isohyetal Line (2011)

C7.4 Thiessen Polygons (1961-2011)

Figure C7.4.1 Thiessen Polygons (1961)

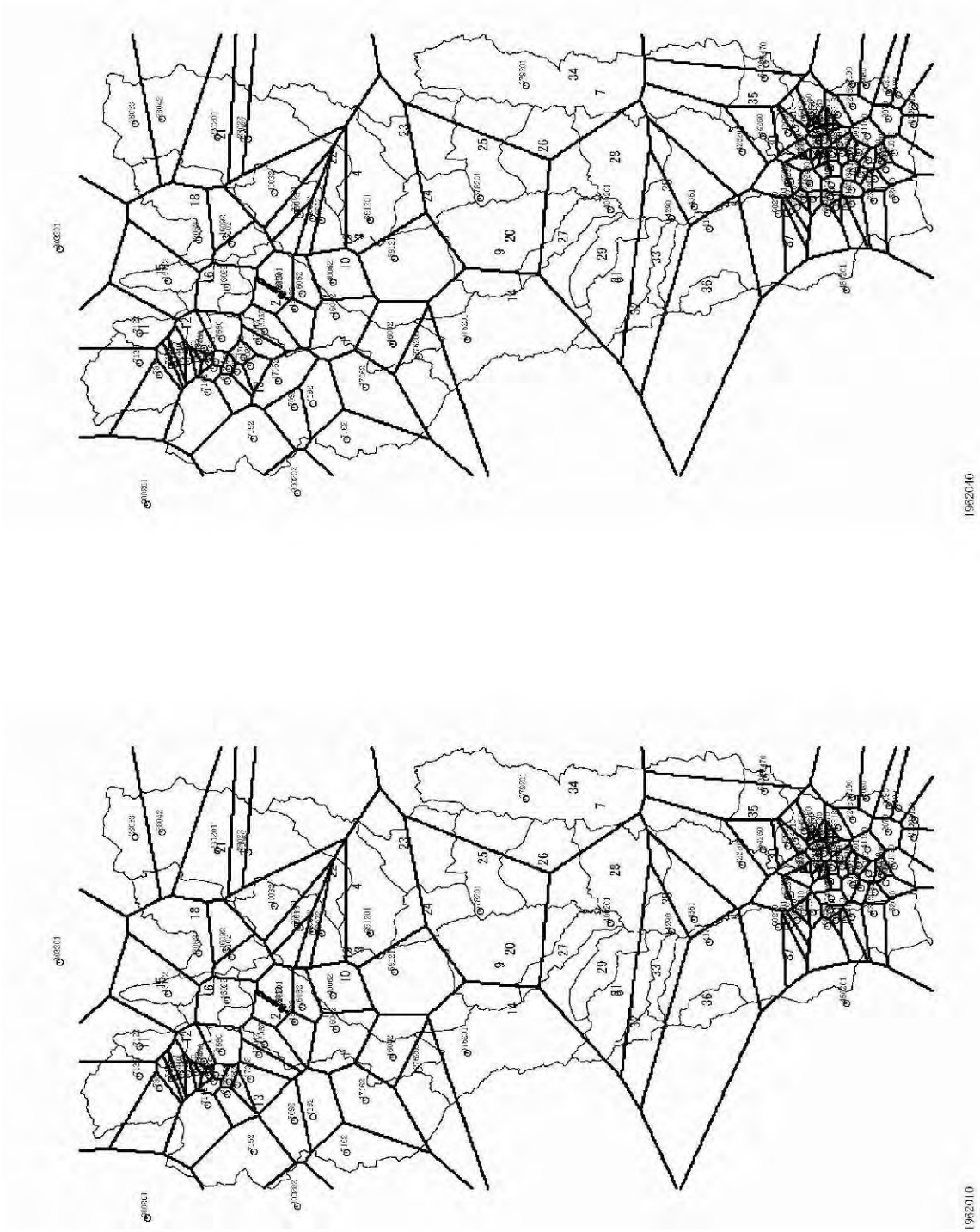


Figure C7.4.2 Thiessen Polygons (1962)

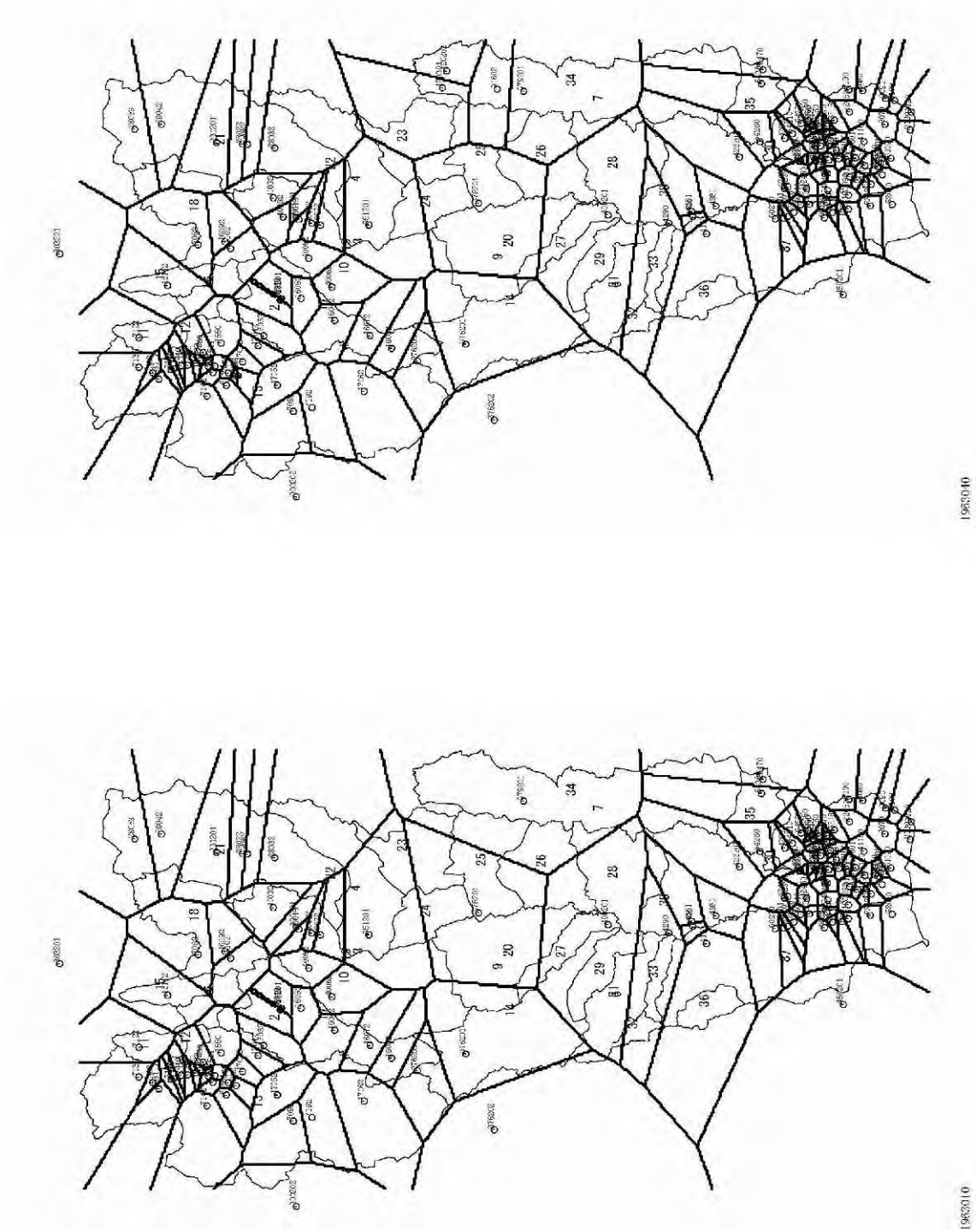
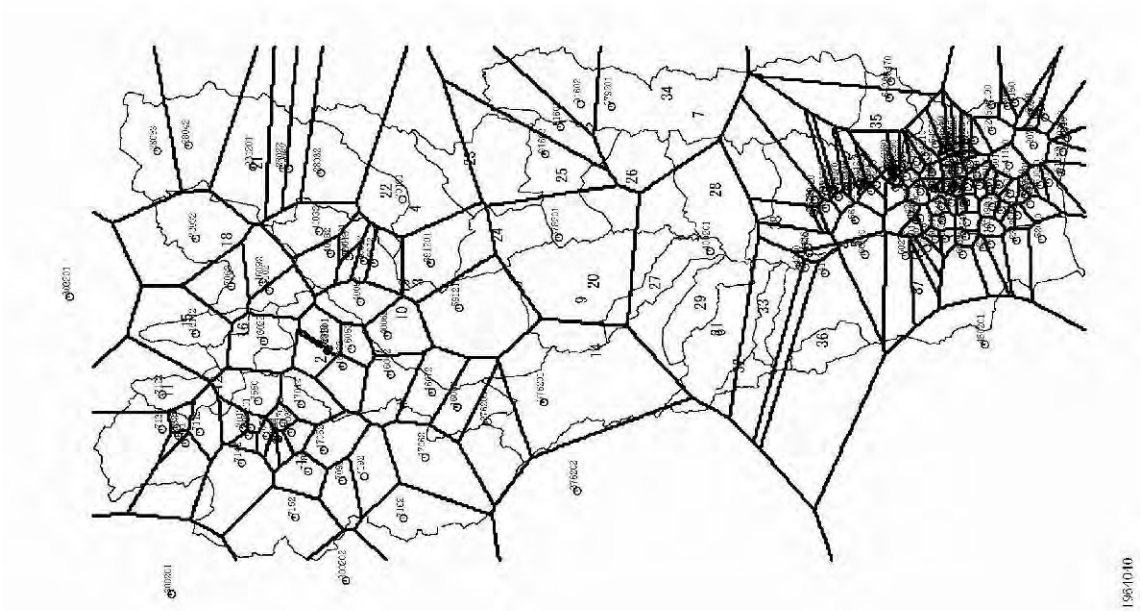


Figure C7.4.3 Thiessen Polygons (1963)



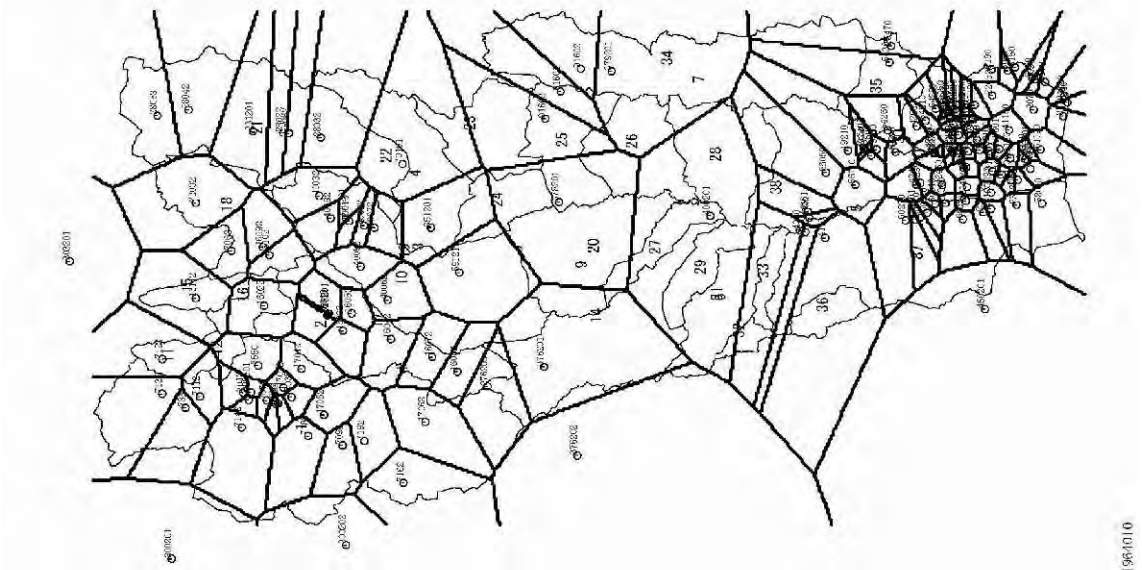


Figure C7.4.4 Thiessen Polygons (1964)

Figure C7.4.5 Thiessen Polygons (1965)

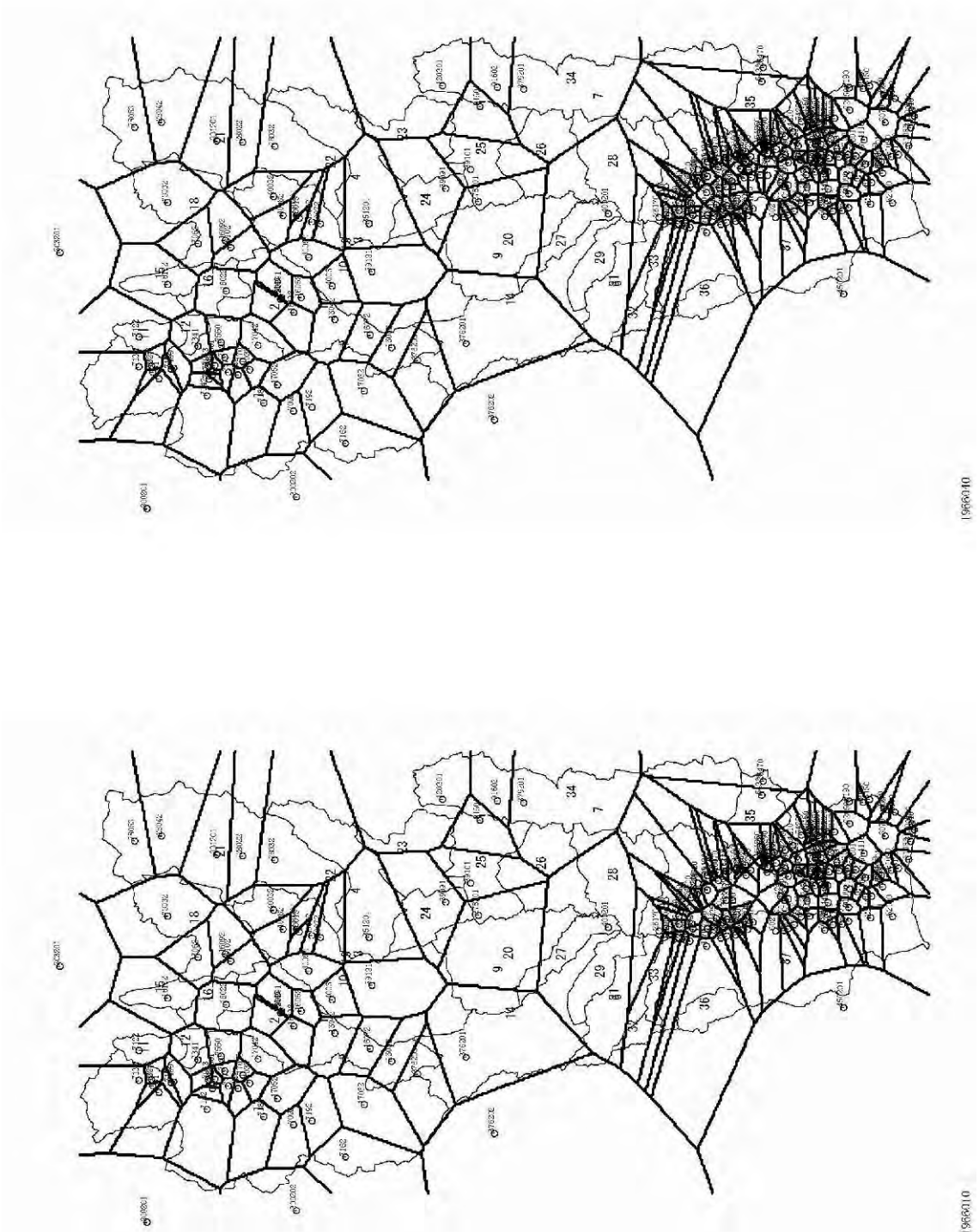


Figure C7.4.6 Thiessen Polygons (1966)

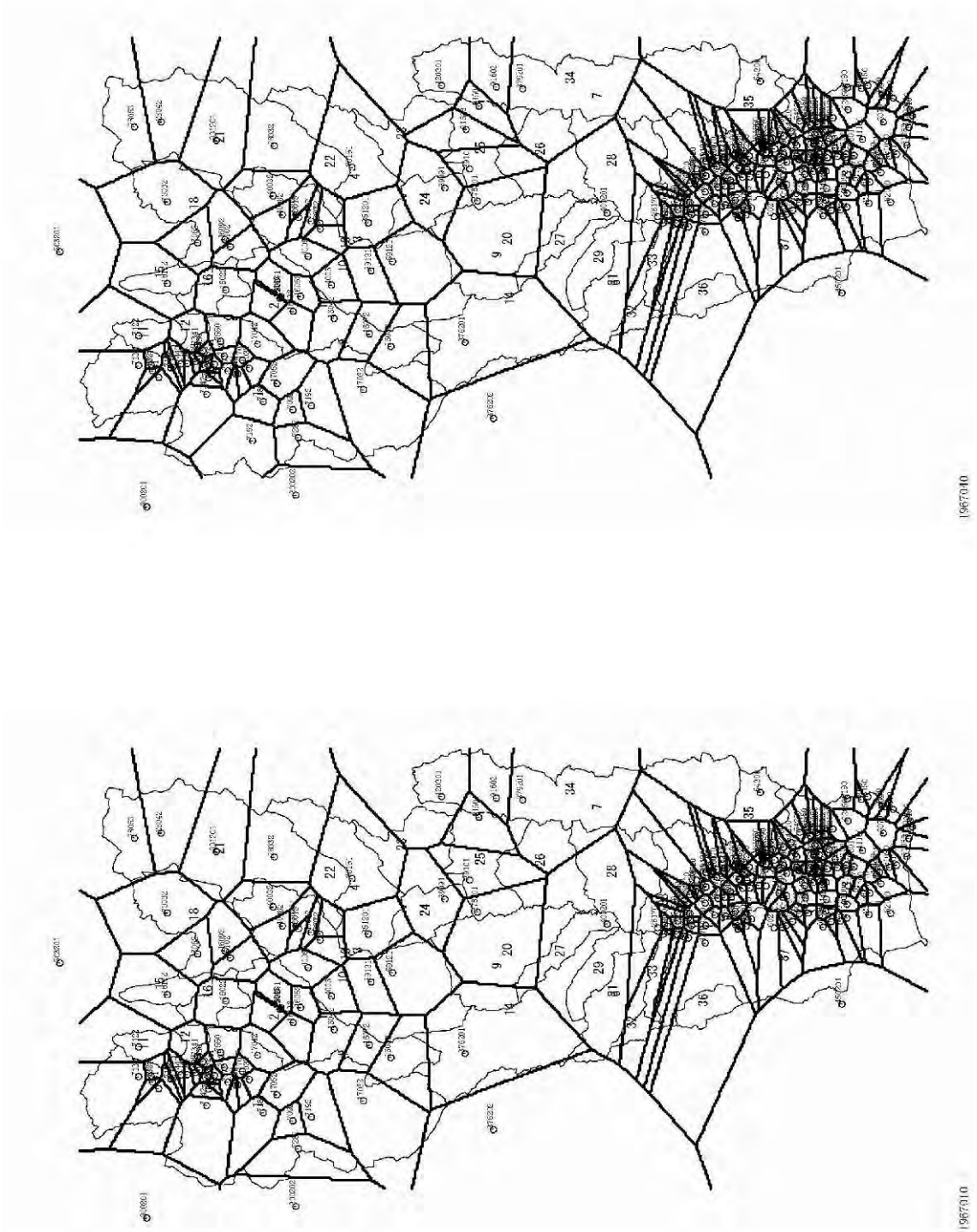
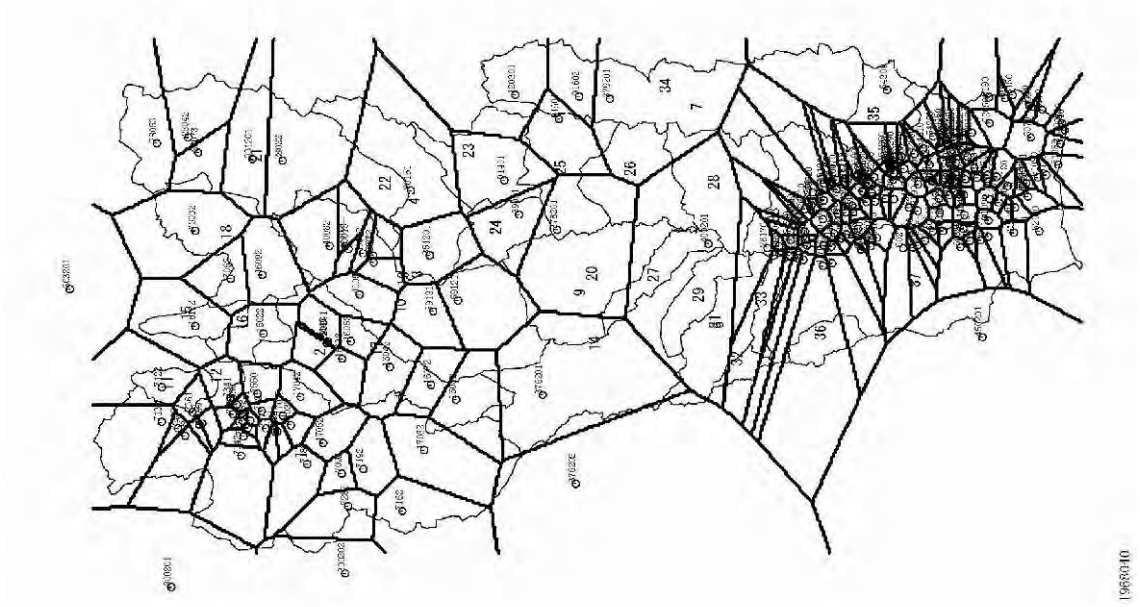


Figure C7.4.7 Thiessen Polygons (1967)



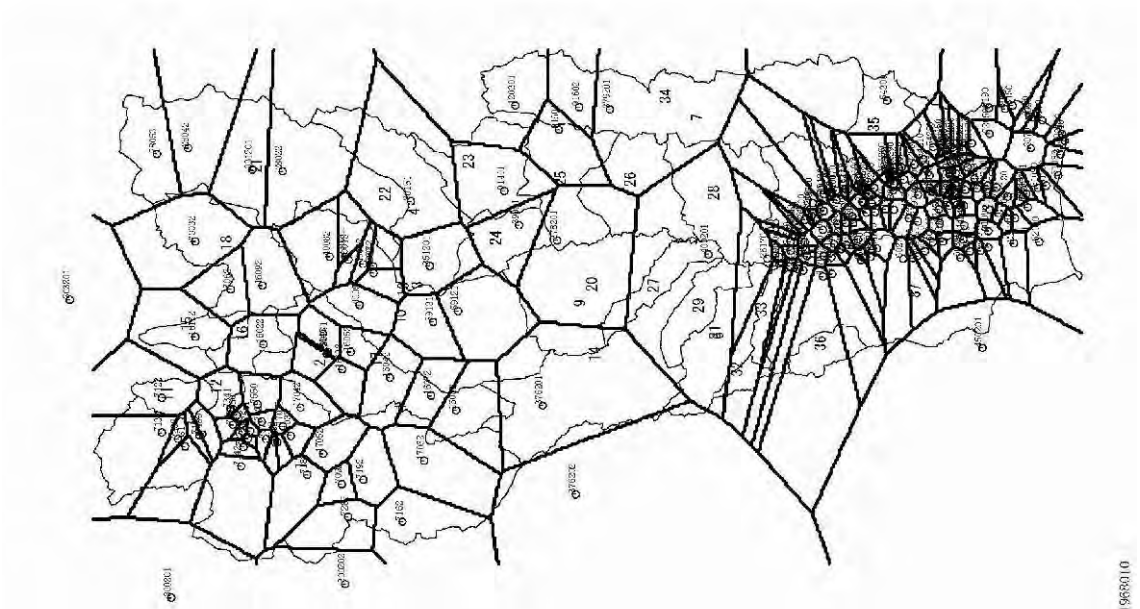


Figure C7.4.8 Thiessen Polygons (1968)

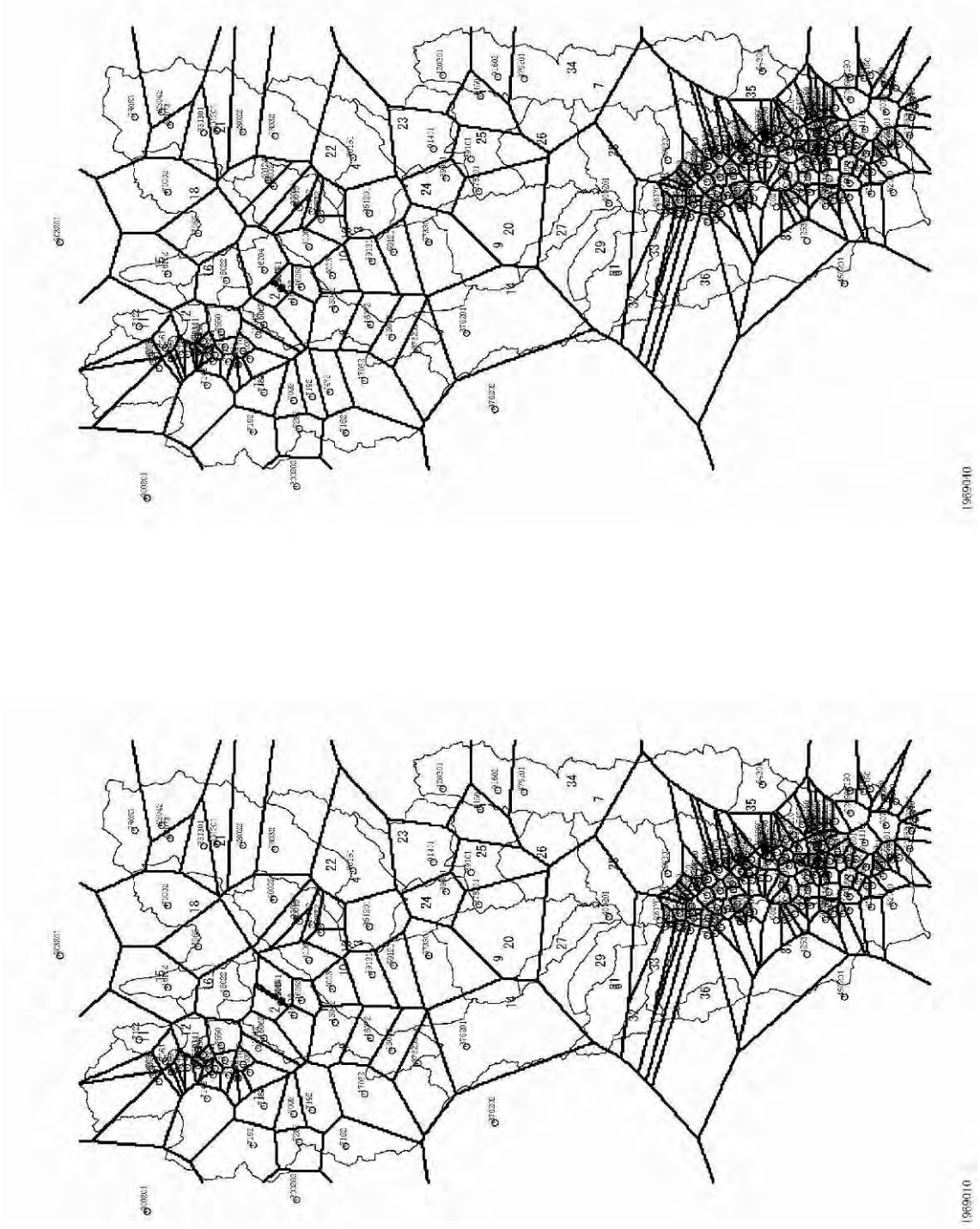


Figure C7.4.9 Thiessen Polygons (1969)