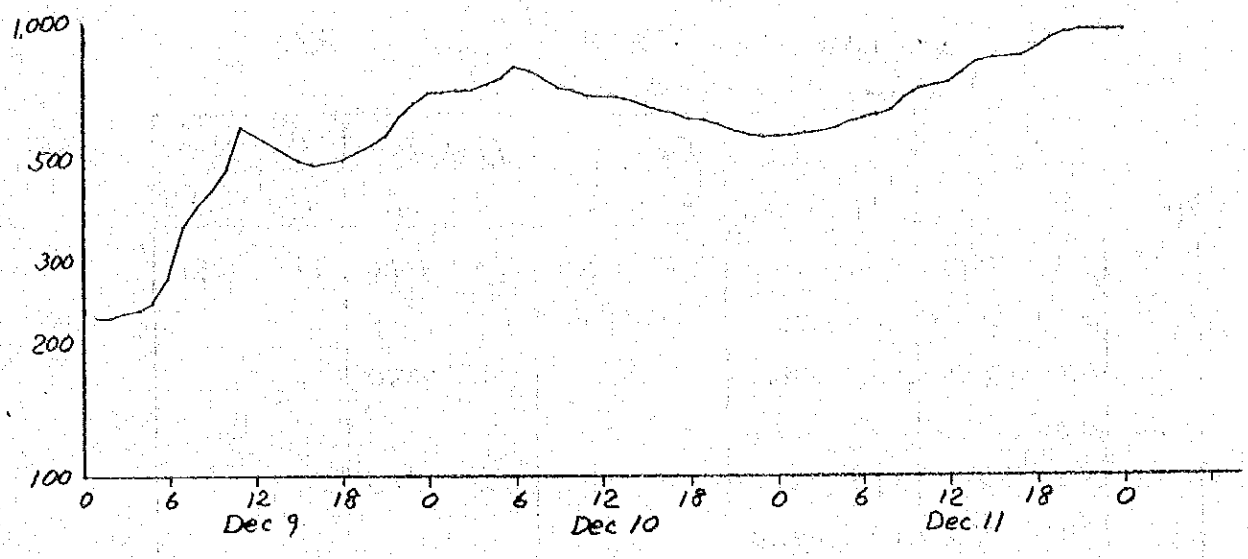
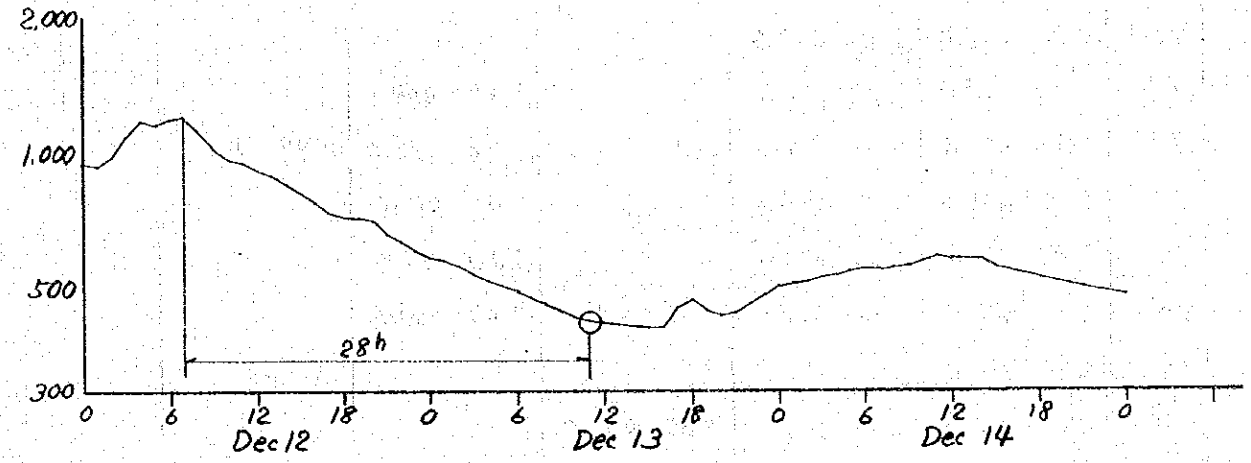
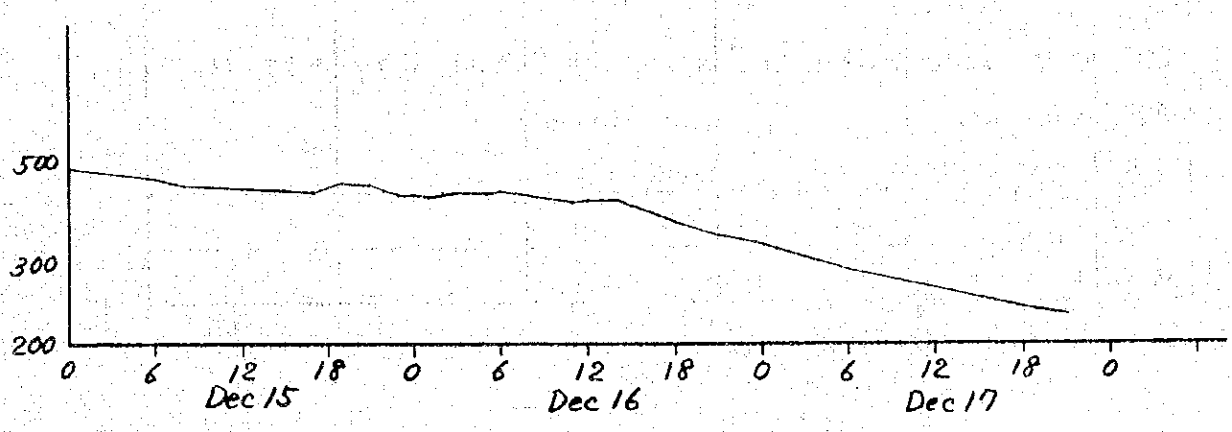
Flood on Dec 12, 1969







Flood on Oct 14, 1970

1/3

at Banugao on Agos river

Date / Hour	Oct. 10		Oct. 11		Oct. 12		Oct. 13		Oct. 14	
	H	Q	H	Q	H	Q	H	Q	H	Q
0			3.27	400.6	2.68	202.9	2.47	145.7	4.76	(1202) 1138.8
1	2.09	58.0	3.22	381.6	2.66	197.3			4.78	(1219) 1151.4
2			3.21	377.8			2.46	143.1	4.97	(1386) 1279.0
3			3.33	424.0			2.46	143.1	5.14	(1534) 1403.8
4			3.38	444.0			2.47	145.7	5.41	(1771) 1620.3
5	2.08	56.2	3.39	448.0			2.49	150.9	5.70	(2043) 1868.0
6	2.09	58.0	3.38	444.0			2.53	161.6	5.88*	(2228) 2031.6
7			3.41	456.3	2.58	175.1	2.59	177.8	5.83	(2176) 1985.6
8			3.36	436.0	2.58	175.1	2.67	200.1	5.67	(2012) 1841.6
9			3.32	420.0	2.59	177.8	2.77	229.2	5.52	(1867) 1712.0
10	2.11	61.8	3.24	389.2	2.60	180.5	2.84	250.4	5.41	(1771) 1620.3
11			3.16	358.8			2.86	256.6	5.28	(1657) 1514.0
12	2.13	65.9	3.09	332.5	2.59	177.8	2.86	256.6	5.14	(1534) 1403.8
13	2.92	275.4	3.03	311.5	2.58	175.1	2.89	265.9	4.96	(1377) 1272.0
14	2.87	259.7	2.98	294.6	2.57	172.4	2.94	281.8	4.79	(1228) 1157.7
15			2.94	281.8			3.02	308.0	4.67	(1123) 1082.7
16	2.79	235.1	2.90	269.0			3.28	404.0	4.55	(1018) 1010.5
17	2.77	229.2	2.87	259.7			3.42	460.6	4.43	942.5
18	2.83	247.3	2.84	250.4			3.44	469.2	4.35	899.0
19	2.93	278.6	2.81	241.1			3.55	516.5	4.26	851.2
20	3.01	304.5	2.78	232.1			3.78	618.8	4.17	805.0
21	3.17	362.5	2.75	223.3			3.99	717.2	4.09	765.2
22	3.19	370.2	2.72	214.4	2.49	150.9	4.36	904.4 (1131)	4.01	726.8
23	3.29	408.2	2.70	208.5			4.68	1088.8	3.95	698.0
Total										
Mean										

Flood on Oct. 14, 1970

at Banugao on Agos river

Date / Hour	Oct. 15		Oct. 16		Oct. 17		Oct. 18		Oct. 19	
	H	Q	H	Q	H	Q	H	Q	H	Q
0	3.89	669.4	3.17	362.5						
1	3.87	660.2	3.15	355.0	2.71	211.5	2.50	153.5	2.39	125.1
2	3.84	646.4	3.12	343.6						
3	3.77	614.2	3.09	332.5						
4	3.71	586.6	3.06	322.0						
5	3.67	568.8	3.04	315.0						
6	3.63	551.2	3.02	308.0			2.48	148.3		
7	3.61	542.4	3.00	301.0	2.65	194.5	2.48	148.3	2.37	120.2
8	3.58	529.4	2.98	294.6						
9	3.53	507.9	2.96	288.2						
10	3.48	486.4	2.94	281.8					2.37	120.2
11	3.43	464.9	2.92	275.4						
12	3.39	448.0	2.90	269.0						
13	3.35	432.0	2.88	262.8	2.59	177.8	2.44	137.9	2.36	117.7
14	3.32	420.0	2.87	259.7						
15	3.29	408.2								
16	3.26	396.8	2.83	247.3						
17	3.24	389.2	2.82	244.2						
18	3.23	385.4	2.81	241.1						
19	3.23	385.4	2.79	235.1	2.54	164.3				
20	3.25	393.0								
21	3.25	393.0								
22	3.23	385.4								
23	3.20	374.0								
Total										
Mean										

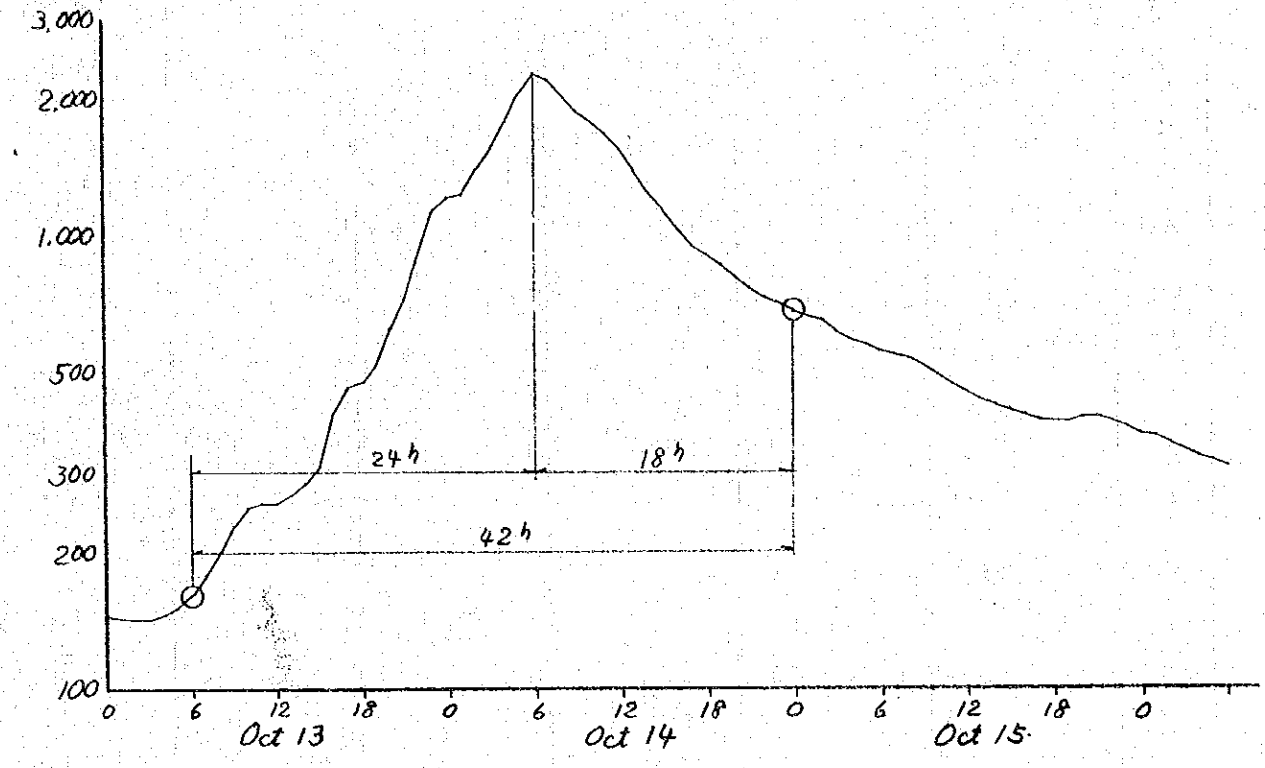
Flood on Oct. 14, 1970

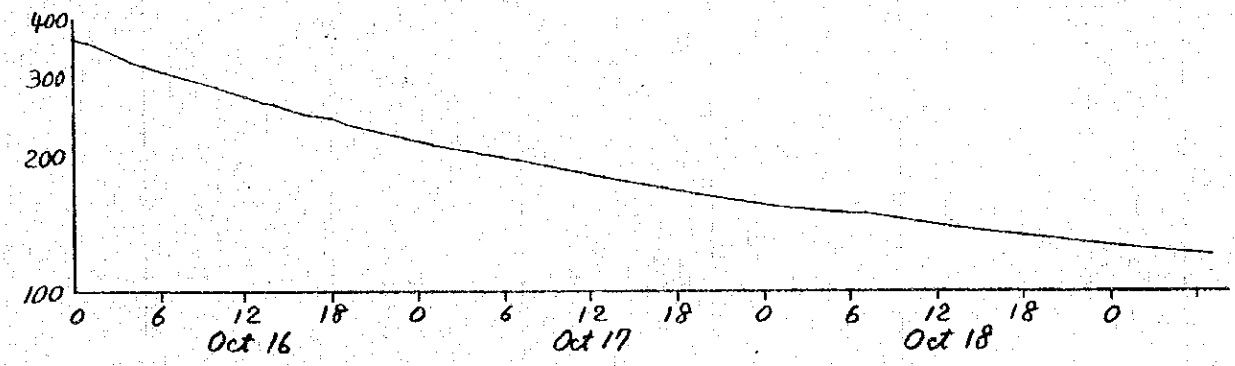
3/3

at Banugao on Agos river

Date / Hour	Oct. 20									
	H	Q	H	Q	H	Q	H	Q	H	Q
0										
1	2.32	107.9								
2										
3										
4										
5										
6										
7										
8										
9										
10	2.31	105.5								
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
Total										
Mean										

Flood on Oct 14, 1970





Flood of Agos river at Bayokan on March 23, 1947

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Mar 22, 1947	18:00	0.560	3	41.06	188.8	
	20:00	0.210	4	41.40	295.0	
	22:00	0.395	6	42.40	698.0	
Mar 23, 1947	0:00	0.120	7	42.45	719.0	
	2:00	0.100	8	43.03 *		
	4:00	0.050	8	42.98	941.6	
	6:00	0.000	6	42.00	530.0	
	8:00	0.360	5	41.93		
	10:00	0.290	5	41.86	471.2	
	12:00	0.440	4	41.63	379.4	
	14:00	0.395	4	41.58	360.4	
	16:00	0.330	4	41.52	337.6	
	18:00	0.275	4	41.46	316.0	

Flood of Agos river at Bayokan on September 7, 1947

Date	Time	G. H.	Gauge No.	G. Elevation	Discharge	Remarks
Sep 7, 1947	4:00	0.290	4	41.48		
	6:00	0.120	5	41.69*		
	8:00	0.230	4	41.42		
	10:00	0.050	4	41.24		
	12:00		3			
	14:00	0.515	3	41.02		
	16:00	0.460	3	40.96		
	18:00	0.420	3	40.92		

Flood of Agos river at Bayokan on October 26, 1947

Date	Time	G. H.	Gauge No	G. Elevation	Discharge	Remarks
Oct 25, 1947	6:00	0.680	3	41.18		
	8:00	0.000	4	41.19		
	10:00	0.170	4	41.36		
	12:00	0.330	4	41.52		
	14:00	0.385	4	41.57		
	16:00	0.380	4	41.57		
	18:00	0.020	5	41.59		
	20:00	0.360	4	41.55		
	22:00	0.340	4	41.53		
Oct 26, 1947	0:00	0.040	5	41.61		
	2:00	0.125	5	41.69		
	4:00	0.100	5	41.67		
	6:00	0.100	5	41.67		
	8:00	0.125	5	41.69 *		
	10:00	0.120	5	41.69		
	12:00	0.080	5	41.65		
	14:00	0.080	5	41.65		
	16:00	0.050	5	41.62		
	18:00	0.020	5	41.59		

Flood of Agos river at Bayokan on October 31, 1947

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Oct 30, 1947	18:00	0.120	4	41.31		
	20:00	0.050	6	42.05		
	22:00	0.070	6	42.07		
Oct 31, 1947	0:00	0.240	7	42.57		
	2:00	0.150	8	43.08		
	4:00	0.440	9	43.67		
	6:00	0.100	10	43.89		
	8:00	0.120	10	43.91		
	10:00	0.510	10	44.30		
	12:00	0.580	10	44.37		
	14:00	0.110	11	44.48		
	16:00	0.230	11	44.60		
	18:00	0.510	11	44.88		
	20:00	0.000	12	45.16 *		
	22:00	0.130	11	44.50		
Nov 1, 1947	0:00	0.250	10	44.04		
	2:00	0.470	9	43.70		
	4:00	0.220	8	43.15		
	6:00	0.300	7	42.63		
	8:00	0.280	7	42.61		
	10:00	0.000	7	42.33		
	12:00	0.290	6	42.29		
	14:00	0.290	6	42.29		
	16:00	0.170	6	42.17		
	18:00	0.090	6	42.09		

Flood Hydrograph on Oct. 31, 1947
G.H. at Bayokan
G.H. at Daraitan
Agos at Bayokan
Kaliwa at Daraitan
Oct 31, 1947
Nov 1, 1947
0:00
6:00
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Flood of Agos river at Bayokan on July 25, 1948

Date	Time	G. H.	Gauge No.	G. Elevation	Discharge	Remarks
Jul 25, 1948	6:00	0.294	4	41.48		
	8:00	0.000	5	41.57		
	10:00	0.175	5	41.74		
	12:00	0.135	5	41.70		
	14:00	0.126	6	42.13		
	16:00	0.097	8	43.02		
	18:00	0.134	8	43.06 *		
	20:00	0.194	7	42.50		
	22:00	0.256	6	42.26		

Flood of Agos river at Bayokan on September 1, 1948

Date	Time	G.H.	Gauge No.	G.Elevation	Discharge	Remarks
Sep 1, 1948	6:00	0.130	8	43.06		
	8:00	0.200	8	43.13		
	10:00	0.400	8	43.33		
	12:00	0.105	9	43.34		
	14:00	0.315	9	43.55		
	16:00	0.400	9	43.63		
	18:00	0.110	10	43.90		
	20:00	0.430	10	44.22		
	22:00	0.610	11	44.98 *		
Sep 2, 1948	0:00	0.100	9	43.33		
	2:00	0.140	8	43.07		
	4:00	0.440	7	42.77		
	6:00	0.320	6	42.32		
	8:00	0.080	6	42.08		
	10:00	0.395	5	41.96		
	12:00	0.280	5	41.85		
	14:00	0.260	5	41.83		
	16:00	0.230	5	41.80		
	18:00	0.210	5	41.78		

Flood of Agos river at Bayokan on September 25, 1948

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Sep 25, 1948	6:00	0.290	6	42.29		
	8:00	0.320	5	41.89		
	10:00	0.110	5	41.68		
	12:00	0.260	4	41.45		
	14:00	0.160	4	41.35		
	16:00	0.080	4	41.27		
	18:00	0.020	4	41.21		

Note: Highest elevation at night is 0.000 on gauge 8, ie. 42.93 m

Flood of Agos river at Bayokan on November 30, 1948

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov 29, 1948	6:00	0.190	5	41.76		
	8:00	0.140	6	42.14		
	10:00	0.310	7	42.64		
	12:00	0.350	7	42.68		
	14:00	0.400	7	42.73		
	16:00	0.120	8	43.05		
	18:00	0.200	8	43.13		
Nov 30, 1948	6:00	0.390	11	44.76		
	8:00	0.410	11	44.78		
	10:00	0.120	11	44.49		
	12:00	0.520	11	44.89		
	14:00	0.500	11	44.87		
	16:00	0.370	11	44.74		
	18:00	0.125	11	44.50		
	mid-night	0.04	12	45.20		
Dec 1, 1948	6:00	0.300	9	43.53		
	8:00	0.300	8	43.23		
	10:00	0.130	8	43.06		
	12:00	0.550	7	42.88		
	14:00	0.400	7	42.73		
	16:00	0.350	7	42.68		
	18:00	0.220	7	42.55		
Dec 2, 1948	6:00	0.130	6	42.13		
	8:00	0.030	6	42.03		
	10:00	0.400	5	41.97		
	12:00	0.360	5	41.93		
	14:00	0.320	5	41.89		
	16:00	0.280	5	41.85		
	18:00	0.260	5	41.83		

Agos at Bayokan
Hmax 45.2m at mid night
Kanan at Matatio
q. H. at Bayokan
q. H. at Matatio
available
Nov 30, 1948
Dec 1, 1948
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JIS A4 180 · 250mm
SEKIREI NO. 401 C

Flood of Agos river at Bayokan on December 15, 1948

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Dec 15, 1948	6:00	0.650	3	41.15		
	8:00	0.246	4	41.43		
	10:00	0.050	5	41.62		
	12:00	0.378	5	41.94		
	14:00	0.300	6	42.30		
	16:00	0.300	8	43.23		
	18:00	0.410	9	43.64		
	20:00	0.250	10	44.04		
	22:00	0.370	11	44.74 *		
Dec 16, 1948	0:00	0.300	10	44.09		
	2:00	0.490	9	43.72		
	4:00	0.290	8	43.22		
	6:00	0.050	8	42.98		
	8:00	0.420	7	42.75		
	10:00	0.310	6	42.31		
	12:00	0.045	6	42.05		
	14:00	0.444	5	42.01		
	16:00	0.282	5	41.85		
	18:00	0.158	5	41.72		

Flood of Agos river at Bayokan on October 30, 1949

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Oct 30, 1949	6:00	0.082	4	41.27	252.4	
	8:00	0.075	4	41.26	249.2	
	10:00	0.064	4	41.25	246.0	
	12:00	0.049	4	41.24	242.8	
	14:00	0.045	4	41.23	239.6	
	16:00	0.620	3	41.12	206.0	
	18:00	0.579	3	41.08	194.4	

Note: It is said that the record might be of Oct 31, 1949.

Flood of Agos river at Bayokan on November 1, 1949

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov 1, 1949	6:00	0.265	4	41.45	312.5	
	8:00	0.258	4	41.45		
	10:00	0.270	4	41.46	316.0	
	12:00	0.286	4	41.47	319.5	
	14:00	0.327	4	41.51 *	333.8	
	16:00	0.291	4	41.48	323.0	
	18:00	0.256	4	41.44	309.0	

362

JIS A4 180×250mm

SEKIREI NO. 401

Flood of Agos river at Bayokan on November 3, 1949

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov 3, 1949	6:00	0.366	5	41.93	500.6	
	8:00	0.351	5	41.92	496.4	
	10:00	0.340	5	41.91		
	12:00	0.319	5	41.88	479.6	
	14:00	0.290	5	41.86	471.2	
	16:00	0.264	5	41.83	458.6	
	18:00	0.244	5	41.81	450.2	

Flood of Agos river at Bayokan on November 5, 1949

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov 5, 1949	6:00	0.076	8	43.00	950.0	
	8:00	0.425	7	42.76	849.2	
	10:00	0.373	7	42.70	824.0	
	12:00	0.320	7	42.65	803.0	
	14:00	0.253	7	42.58	773.6	
	16:00	0.210	7	42.54	756.8	
	18:00	0.125	6	42.13		

Flood of Agos river at Bayokan on November 3, 1949

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov 3, 1949	6:00	0.366	5	41.93	500.6	
	8:00	0.351	5	41.92	496.4	
	10:00	0.340	5	41.91		
	12:00	0.319	5	41.88	479.6	
	14:00	0.290	5	41.86	471.2	
	16:00	0.264	5	41.83	458.6	
	18:00	0.244	5	41.81	450.2	

Flood of Agos river at Bayokan on November 5, 1949

Date	Time	G. H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov 5, 1949	6:00	0.076	8	43.00	950.0	
	8:00	0.425	7	42.76	849.2	
	10:00	0.373	7	42.70	824.0	
	12:00	0.320	7	42.65	803.0	
	14:00	0.253	7	42.58	773.6	
	16:00	0.210	7	42.54	756.8	
	18:00	0.125	6	42.13		

G.H. at Matatio
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Agas at Bayokan
Nov 5, 1949
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Nov 6, 1949

Flood of Agos river at Bayokan on November 29, 1949

Date	Time	G. H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov 29, 1949	6:00	0.265	4	41.45	312.5	
	8:00	0.079	5	41.64	383.2	
	10:00	0.088	5	41.65	387.0	
	12:00	0.097	5	41.66	390.8	
	14:00	0.105	5	41.67	394.6	
	16:00	0.120	5	41.69		
	18:00	0.140	5	41.71		
	20:00	0.230	5	41.80*		
	22:00	0.128	5	41.69	402.2	
Nov 30, 1949	0:00	0.068	5	41.63	379.4	
	2:00	0.340	4	41.53	341.4	
	4:00	0.282	4	41.47	319.5	
	6:00	0.235	4	41.42	302.0	

Flood of Agos river at Bayokan on December 6, 1949

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Dec 6, 1949	6:00	0.250	6	42.25	635.0	
	8:00	0.262	6	42.26	639.2	
	10:00	0.239	7	42.57	769.4	
	12:00	0.267	7	42.60	782.0	
	14:00	0.295	7	42.63	794.6	
	16:00	0.320	7	42.65	803.0	
	18:00	0.350	7	42.68	815.6	
	20:00	0.092	8	43.02	958.4	
	22:00	0.130	8	43.06 *	975.2	
Dec 7, 1949	0:00	0.028	8	42.95	929.0	
	2:00	0.380	7	42.71	828.2	
	4:00	0.250	7	42.58	773.6	
	6:00	0.130	7	42.46	723.2	
	8:00	0.162	7	42.49	735.8	
	10:00	0.194	7	42.52	748.4	
	12:00	0.220	7	42.55	761.0	
	14:00	0.410	7	42.74		
	16:00	0.323	7	42.65	803.0	
	18:00	0.295	7	42.63	794.6	
	20:00	0.248	7	42.58	773.6	
	22:00	0.240	7	42.57	769.4	
Dec 8, 1949	0:00	0.220	7	42.55	761.0	
	2:00	0.217	7	42.55	761.0	
	4:00	0.118	7	42.45	719.0	
	6:00	0.160	7	42.49	735.8	
	8:00	0.105	7	42.44		
	10:00	0.356	6	42.36	681.2	
	12:00	0.339	6	42.34	672.8	
	14:00	0.290	6	42.29	661.8	
	16:00	0.278	6	42.28	647.6	
	18:00	0.257	6	42.26	639.2	

— to be continued —

Bayokan

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Dec 8, 1949	20:00	0.232	6	42.23	626.6	
	22:00	0.200	6	42.20	614.0	
Dec 9, 1949	0:00	0.200	6	42.20	614.0	
	2:00	0.252	6	42.25	635.0	
	4:00	0.289	6	42.29	661.8	
	6:00	0.304	6	42.30	656.0	
	8:00	0.245	6	42.25	635.0	
	10:00	0.210	6	42.21	618.2	
	12:00	0.176	6	42.18	605.6	
	14:00	0.140	6	42.14	588.8	
	16:00	0.113	6	42.11	576.2	
	18:00	0.076	6	42.08	563.6	

Flood of Agos river at Bayokan on December 28, 1949

Date	Time	G. H.	Gauge No.	G. Elevation	Discharge	Remarks
Dec 28, 1949	6:00	0.310	7	42.64	798.8	
	8:00	0.299	7	42.63	794.6	
	10:00	0.272	7	42.60	782.0	
	12:00	0.245	7	42.58		
	14:00	0.210	7	42.54	756.8	
	16:00	0.292	7	42.62	790.4	
	18:00	0.145	7	42.48	731.6	
	20:00	0.320	7	42.65	803.0	
	22:00	0.025	8	42.95	929.0	
Dec 29, 1949	0:00	0.118	8	43.04*	966.8	
	2:00	0.092	8	43.02	958.4	
	4:00	0.250	7	42.58	773.6	
	6:00	0.095	7	42.43		
	8:00	0.059	7	42.39	693.8	
	10:00	0.428	6	42.43	710.6	
	12:00	0.404	6	42.40	698.0	
	14:00	0.384	6	42.38	689.6	
	16:00	0.374	6	42.37	685.4	
	18:00	0.359	6	42.36	681.2	

Note: Earthquakes at 11:20 a.m. on Dec 29 from North to South

Flood of Agos river at Bayokan on January 8, 1950

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Jan 7, 1950	6:00	0.063	5	41.63	379.4	
	8:00	0.125	5	41.69	402.2	
	10:00	0.172	5	41.74	422.0	
	12:00	0.234	5	41.80	446.0	
	14:00	0.278	5	41.84	462.8	
	16:00	0.367	5	41.93	500.6	
	18:00	0.045	6	42.05		
	20:00	0.240	6	42.24	630.8	
	22:00	0.320	6	42.32	664.4	
Jan 8, 1950	0:00	0.140	7	42.47 *	727.4	
	2:00	0.300	6	42.30	656.0	
	4:00	0.175	6	42.18	605.6	
	6:00	0.215	6	42.22	622.4	
	8:00	0.362	6	42.36	681.2	
	10:00	0.345	6	42.35		
	12:00	0.134	7	42.46	723.2	
	14:00	0.089	7	42.42	706.4	
	16:00	0.335	6	42.34	672.8	
	18:00	0.259	6	42.26	639.2	
	20:00	0.310	6	42.31	660.2	
	22:00	0.000	7	42.33	668.6	
Jan 9, 1950	0:00	0.020	7	42.35	677.0	
	2:00	0.220	6	42.22	622.4	
	4:00	0.000	6	42.00	530.0	
	6:00	0.045	5	41.61	371.8	

Flood of Agos river at Bayokan on January 11, 1950

Date	Time	G.H.	Gauge No.	G.Elevation	Discharge	Remarks
Jan 11, 1950	6:00	0.190	6	42.19 *	609.8	
	8:00	0.162	6	42.16	597.2	
	10:00	0.125	6	42.13		
	12:00	0.092	6	42.09	567.8	
	14:00	0.075	6	42.08	563.6	
	16:00	0.054	6	42.05	551.0	
	18:00	0.353	5	41.92	496.4	
	20:00	0.210	5	41.78	438.0	
	22:00	0.190	5	41.76	430.0	
Jan 12, 1950	0:00	0.090	5	41.66	390.8	
	2:00	0.035	5	41.60	368.0	
	4:00	0.330	4	41.52	337.6	
	6:00	0.310	4	41.50	330.0	

Flood of Agos river at Bayokan on March 18, 1950

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Mar 17, 1950	6:00	0.198	4	41.39		
	8:00	0.097	5	41.66		
	10:00	0.156	5	41.72		
	12:00	0.239	5	41.80		
	14:00	0.146	6	42.15		
	16:00	0.248	6	42.25		
	18:00	0.342	6	42.34		
	20:00	0.400	6	42.40		
	22:00	0.440	6	42.44		
Mar 18, 1950	0:00	0.425	6	42.43		
	2:00	0.370	6	42.37		
	4:00	0.335	5	41.90		
	6:00	0.310	4	41.50		
	8:00	0.010	5	41.58		
	10:00	0.125	6	42.13		
	12:00	0.259	6	42.26		
	14:00	0.164	7	42.49		
	16:00	0.109	7	42.44		
	18:00	0.174	7	42.50 *		
	20:00	0.125	7	42.46		
	22:00	0.095	7	42.43		
Mar 19, 1950	0:00	0.310	6	42.31		
	2:00	0.200	6	42.20		
	4:00	0.210	5	41.78		
	6:00	0.120	5	41.69		
	8:00	0.105	5	41.67		
	10:00	0.081	5	41.65		
	12:00	0.087	5	41.65		
	14:00	0.067	5	41.63		
	16:00	0.048	5	41.61		
	18:00	0.280	4	41.47		

Flood of Agos river at Bayokan on October 1, 1950

Date	Time	G.H.	Gauge No	G. Elevation	Discharge	Remarks
Oct. 2, 1950	6:00	0.292	4	41.479	323.0	
	8:00	0.304	4	41.491	326.5	
	10:00	0.354	4	41.541	345.2	
	12:00	0.180	5	41.745	422.0	
	14:00	0.206	5	41.771 *	434.0	
	16:00	0.150	5	41.715	414.0	
	18:00	0.025	5	41.640	383.2	
	20:00	0.018	5	41.583	360.4	
	22:00	0.322	4	41.509	333.8	
Oct 3, 1950	0:00	0.314	4	41.501	330.0	
	2:00	0.350	4	41.537	345.2	
	4:00	0.250	4	41.437	309.0	
	6:00	0.129	4	41.316	268.6	

Flood of Agas river at Bayokan on October 19, 1950

Date	Time	G. H.	Gauge No.	G. Elevation	Discharge	Remarks
Oct. 19, 1950	6:00	0.175	5	41.740 *	422.0	
	8:00	0.121	5	41.686	402.2	
	10:00	0.062	5	41.627	379.4	
	12:00	0.292	4	41.479	323.0	
	14:00	0.210	4	41.397	288.4	
	16:00	0.159	4	41.346	278.5	
	18:00	0.105	4	41.292	258.8	

Flood of Agos river at Bayokan on October 23, 1950

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Oct 22, 1950	18:00	0.110	4	41.297	262.0	
	20:00	0.342	4	41.529	341.4	
	22:00	0.120	5	41.685	398.4	
Oct 23, 1950	0:00	0.322	6	42.322	664.4	
	2:00	0.012	8	42.937	924.8	
	4:00	0.156	8	43.081	983.6	
	6:00	0.230	9	43.461 *	1143.2	
	8:00	0.162	9	43.393	1113.8	
	10:00	0.118	8	43.043	966.8	
	12:00	0.105	8	43.030	962.6	
	14:00	0.120	8	43.045	966.8	
	16:00	0.087	8	43.012	954.2	
	18:00	0.547	7	42.877	899.6	
	20:00	0.529	7	42.859	891.2	
	22:00	0.392	7	42.722	832.4	
Oct 24, 1950	0:00	0.348	7	42.678	815.6	
	2:00	0.294	7	42.624	790.4	
	4:00	0.260	7	42.590	777.8	
	6:00	0.219	7	42.549	761.0	
	8:00	0.209	7	42.539	756.8	
	10:00	0.155	7	42.485	731.6	
	12:00	0.277	7	42.607	786.2	
	14:00	0.103	7	42.433	710.6	
	16:00	0.030	7	42.360	681.2	
	18:00	0.300	6	42.300	656.0	
	20:00	0.252	6	42.252	635.0	
	22:00	0.310	6	42.310	660.2	
Oct 25, 1950	0:00	0.312	6	42.312	660.2	
	2:00	0.298	6	42.298	656.0	
	4:00	0.280	6	42.280	647.6	
	6:00	0.260	6	42.260	639.2	

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Bayokan

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Oct 25, 1950	8:00	0.260	6	42.260	639.2	
	10:00	0.245	6	42.245	630.8	
	12:00	0.209	6	42.209	618.2	
	14:00	0.200	6	42.200	614.0	
	16:00	0.187	6	42.187	609.8	
	18:00	0.175	6	42.175	605.6	
	20:00	0.094	6	42.094	567.8	
	22:00	0.017	6	42.017	538.4	
Oct 26, 1950	0:00	0.358	5	41.923	496.4	
	2:00	0.242	5	41.807	450.2	
	4:00	0.150	5	41.715	414.0	
	6:00	0.064	5	41.629	379.4	

Flood of Agos river at Bayokan on November 18, 1950

Date	Time	G. H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov 17, 1950	18:00	0.142	5	41.707		
	20:00	0.178	6	42.178	605.6	
	22:00	0.320	6	42.320	664.4	
Nov 18, 1950	0:00	0.162	7	42.492	735.8	
	2:00	0.294	7	42.624	790.4	
	4:00	0.108	8	43.033	962.6	
	6:00	0.140	8	43.065 *	975.2	
	8:00	0.067	8	42.992	945.8	
	10:00	0.305	7	42.635	798.8	
	12:00	0.180	7	42.510	744.2	
	14:00	0.186	6	42.186	609.8	
	16:00	0.114	6	42.114	576.2	
	18:00	0.059	6	42.059	555.2	

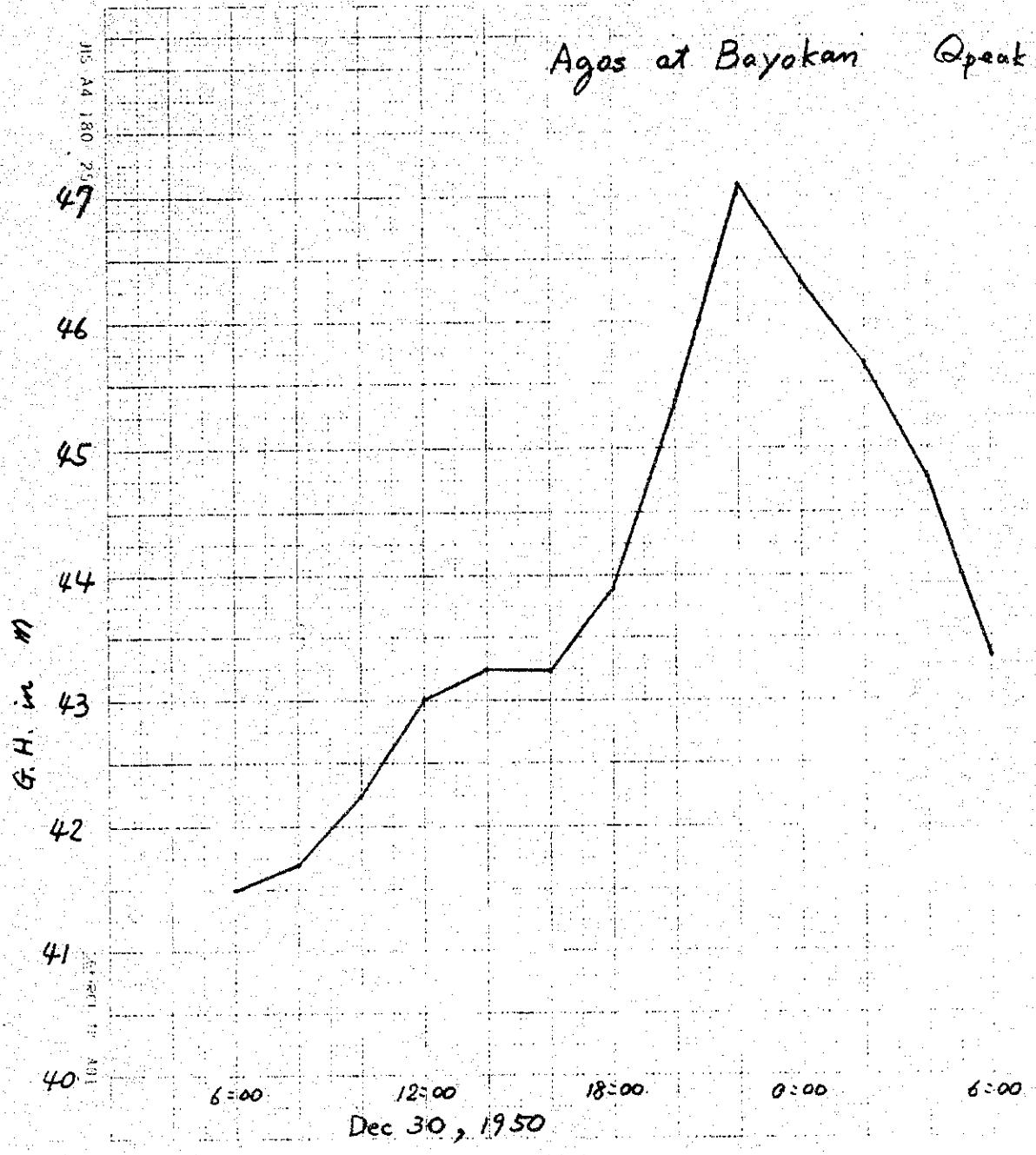
Flood of Agos river at Bayokan on November 21, 1950

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov. 21, 1950	6:00	0.075	5	41.64		
	8:00	0.243	5	41.81		
	10:00	0.130	6	42.13		
	12:00	0.318	7	42.65		
	14:00	0.264	8	43.19		
	16:00	0.120	8	43.05 *		
	18:00	0.045	8	42.97		
	20:00	0.000	8	42.93		
	22:00	0.274	7	42.60		
Nov 22, 1950	0:00	0.212	7	42.54		
	2:00	0.136	7	42.47		
	4:00	0.074	7	42.40		
	6:00	0.098	7	42.43		
	8:00	0.230	6	42.23		
	10:00	0.112	6	42.11		
	12:00	0.000	6	42.00		
	14:00	0.320	5	41.89		
	16:00	0.250	5	41.82		
	18:00	0.217	5	41.78		
	20:00	0.190	5	41.76		
	22:00	0.162	5	41.73		
Nov 23, 1950	0:00	0.140	5	41.71		

Flood of Agos river at Bayokan on December 30, 1950

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Dec. 30, 1950	6:00	0.305	4	41.49	326.5	
	8:00	0.145	5	41.71	410.0	
	10:00	0.246	6	42.25	635.0	
	12:00	0.090	8	43.02	958.4	
	14:00	0.310	8	43.24	1050.8	
	16:00	0.000	9	43.23	1046.6	
	18:00	0.092	10	43.88	1319.6	
	20:00	0.000	13	45.37	1945.4	
	22:00	0.195	15	47.08*	2663.6	
Dec. 31, 1950	0:00	0.240	14	46.30	2336.0	
	2:00	0.290	13	45.66	2067.2	
	4:00	0.400	11	44.77	1693.4	
	6:00	0.105	9	43.34	1092.8	

Agos at Bayokan Q_{peak} = 2,663.6 m^3/sec, Recorded Maximum



28.29 R

Flood of Kanan river at Malatia on November 15, 1946

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov 15, 1946	6:00	0.114	6	125.29		Flooded last night.
	8:00	0.281	5	124.93		
	10:00	0.091	5	124.74		
	12:00	0.081	5	124.73		
	14:00	0.165	5	124.81		
	16:00	0.155	5	124.80		
	18:00	0.126	5	124.77		

Flood of Kanan river at Matatio on November 20, 1946

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov 20, 1946	6:00	0.358	5	125.01		Flooded last night
	8:00	0.361	5	125.01		
	10:00	0.335	5	124.98		
	12:00	0.318	5	124.97		
	14:00	0.230	5	124.88		
	16:00	0.196	5	124.84		
	18:00	0.165	5	124.81		

Flood of Kanan river at Matatio on December 10, 1946

Date	Time	G. H.	Gauge No.	G. Elevation	Discharge	Remarks
Dec 10, 1946	6:00	0.450	5	125.10		Flooded last night.
	8:00	0.464	5	125.11		
	10:00	0.036	6	125.21		
	12:00	0.20	7	125.70		
	14:00	0.40	7	125.90		
	16:00	0.50	7	126.00		
	18:00	0.40	7	125.90		
Dec 11, 1946	6:00	0.084	6	125.26		
	8:00	0.020	6	125.19		
	10:00	0.434	5	125.08		
	12:00	0.395	5	125.04		
	14:00	0.367	5	125.02		
	16:00	0.335	5	124.98		
	18:00	0.390	5	125.04		

Flood of Kanan river at Malatio on August 14, 1947

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Aug 14, 1947	6:00	0.057	5	124.71		
	8:00	0.034	6	125.21		
	10:00	0.409	5	125.06		
	12:00	0.269	5	124.92		
	14:00	0.226	5	124.87		
	16:00	0.034	6	125.21		
	18:00	0.200	7	125.70		
	20:00	0.107	6	125.28		
	22:00	0.019	6	125.19		
Aug 15, 1947	0:00	0.410	5	125.06		
	2:00	0.334	5	124.98		
	4:00	0.298	5	124.95		
	6:00	0.207	5	124.86		

Flood of Kanan river at Matatio on Nov 27, 1948

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov. 27, 1948	6:00	0.108	6	125.28		
	8:00	0.055	6	125.23		
	10:00	0.439	5	125.09		
	12:00	0.369	5	125.02		
	14:00	0.315	5	124.96		
	16:00	0.287	5	124.94		
	18:00	0.272	5	124.92		

Flood of Kanan river at Matatio on November 30, 1948

Date	Time	G. H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov 30, 1948	6:00	0.30	9	126.77		
	8:00	0.20	9	126.67		
	10:00	0.50	8	126.45		
	12:00	0.45	8	126.40		
	14:00	0.40	9	126.87		
	16:00	0.10	10	127.22		
	18:00	0.30	10	127.42		
	20:00	0.50	10	127.62		
	22:00	0.50	10	127.62		
Dec. 1, 1948	0:00	0.10	11	127.81		
	2:00	0.50	10	127.62		
	4:00	0.40	10	127.52		
	6:00	0.10	10	127.22		
	8:00	0.30	9	126.77		
	10:00	0.20	9	126.67		
	12:00	0.10	9	126.57		
	14:00	0.30	8	126.25		
	16:00	0.20	8	126.15		
	18:00	0.10	8	126.05		
	20:00	0.10	8	126.05		
	22:00	0.50	7	126.00		
Dec. 2, 1948	0:00	0.45	7	125.95		
	2:00	0.40	7	125.90		
	4:00	0.30	7	125.80		
	6:00	0.20	7	125.70		

Flood of Kanan river at Malatio on December 15, 1948

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Dec 15, 1948	6:00	0.29	5	124.94		
	8:00	0.10	7	125.60		
	10:00	0.30	9	126.77		
	12:00	0.30	11	128.01		
	14:00	0.15	11	127.86		
	16:00	0.10	10	127.22		
	18:00	0.20	9	126.67		
	20:00	0.35	11	128.06		
	22:00	0.45	11	128.16		
Dec 16, 1948	0:00	0.30	11	128.01		
	2:00	0.20	10	127.32		
	4:00	0.50	9	126.97		
	6:00	0.10	9	126.57		
	8:00	0.05	8	126.00		
	10:00	0.40	7	125.90		
	12:00	0.05	7	125.55		
	14:00	0.37	6	125.54		
	16:00	0.08	6	125.25		
	18:00	0.42	5	125.07		

Flood of Kanan river at Matatio on Oct 30, 1949

Date	Time	G. H.	Gauge No.	G. Elevation	Discharge	Remarks
Oct. 29, 1949	9:54	0.138	3	124.358		
	11:54	0.094	5	124.742		
	13:54	0.046	4	124.506		
	15:54	0.165	3	124.385		
	17:54	0.102	3	124.322		
Oct 30, 1949	10:30	0.074	4	124.534		
	12:34	0.452	5	125.100		
	14:34	0.265	5	124.913		
	16:34	0.129	5	124.777		
	18:34	0.116	4	124.596		

Flood of Kanan river at Matatio on November 2, 1949

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov 1, 1949	6:00	0.468	5	125.116		
	8:00	0.471	5	125.119		
	10:00	0.497	5	125.145		
	12:00	0.038	6	125.210		
	14:00	0.000	6	125.172		
	16:00	0.461	6	125.633		
	18:00	0.122	6	125.294		
Nov 2, 1949	6:00	0.126	5	124.774		
	8:00	0.236	6	125.408		
	10:00	0.45	7	125.950		
	12:00	0.40	8	126.350		
	14:00	0.15	7	125.650		
	16:00	0.10	7	125.600		
	18:00	0.451	6	125.623		

Flood of Kanan river at Matatio on November 5, 1949

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Nov 5, 1949	6:00	0.50	7	126.00		
	8:00	0.45	7	125.95		
	10:00	0.40	7	125.90		
	12:00	0.45	7	125.95		
	14:00	0.40	7	125.90		
	16:00	0.30	7	125.80		
	18:00	0.20	7	125.70		
Nov 6, 1949	6:00	0.456	6	125.628		
	8:00	0.432	6	125.604		
	10:00	0.410	6	125.582		
	12:00	0.386	6	125.558		
	14:00	0.349	6	125.521		
	16:00	0.320	6	125.492		
	18:00	0.289	6	125.461		

Flood of Kaliwa river at Daraitan on August 11, 1947

Date	Time	G. H.	Gauge No.	G. Elevation	Discharge	Remarks
Aug. 9, 1947	22:00	0.175	8	128.23		Flood starts from 19:00
Aug. 10, 1947	0:00	0.146	7	128.38		
	2:00	0.174	6	128.68		
	4:00	0.185	5	128.96		
	6:00	1.100	5	129.88		
	8:00	1.200	5	129.98		Rain stops 7:00
	10:00	0.750	5	129.53		Flood recedes 9:00
	18:00	0.136	7	128.37		
	20:00	0.240	6	128.75		
	22:00	0.376	5	129.15		
Aug. 11, 1947	0:00	1.306	5	130.08		
	2:00	0.194	4	130.15		
	4:00	0.124	3	130.72		
	6:00	0.376	2	131.39		
	8:00	0.420	1	132.42		
	10:00	0.050	1	132.05		Flood recedes from 8:30

Flood of Kaliwa river at Daraitan on October 31, 1947

Date	Time	G.H.	Gauge No.	G. Elevation	Discharge	Remarks
Oct 31, 1947	6:00	0.100	3	130.69	397.6	
	8:00	0.270	3	130.86		
	10:00	0.140	2	131.15		
	12:00	0.396	2	131.39		
	13:00	0.095	1	132.09		
	14:00	0.174	A	132.56		
	16:00	0.396	A	132.78		
	18:00	0.056	B	133.14		
	20:00	0.136	2	131.15		
	22:00	0.154	3	130.75		

Note: Highest elevation of the flood is between 18:00 and 19:00 on Oct 31, 1947, and 0.184 on gauge B, ie. 133.27 m

WATER LEVEL AND DISCHARGE RECORD

Station: Banugao

River Basin _____ Basin № _____ Station № _____ EL. _____ m

Station Site _____ Drainage Area _____ Km²

DATE	From August 19 79 to 19											
Date	17		18		19		20		21		22	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1			2.65		2.42		2.26		2.18		2.12	
2			2.65		2.42		2.26		2.18		2.11	
3			2.60		2.42		2.25		2.18		2.11	
4			2.60		2.41		2.25		2.17		2.11	
5			2.59		2.40		2.24		2.17		2.11	
6			2.59		2.38		2.24		2.17		2.10	
7			2.59		2.37		2.24		2.18		2.10	
8			2.58		2.36		2.23		2.17		2.10	
9	3.00		2.56		2.35		2.22		2.17		2.10	
10	2.99		2.55		2.35		2.22		2.16		2.10	
11	2.98		2.54		2.35		2.22		2.16		2.10	
12	2.94		2.53		2.34		2.22		2.16		2.10	
13	2.90		2.52		2.34		2.21		2.16		2.09	
14	2.87		2.51		2.33		2.21		2.15		2.09	
15	2.85		2.51		2.32		2.21		2.15		2.09	
16	2.82		2.50		2.32		2.20		2.15		2.09	
17	2.80		2.49		2.31		2.20		2.15		2.09	
18	2.80		2.48		2.30		2.20		2.14		2.08	
19	2.76		2.49		2.29		2.20		2.13		2.08	
20	2.72		2.47		2.29		2.21		2.13		2.07	
21	2.70		2.46		2.28		2.30		2.13		2.07	
22	2.68		2.45		2.27		2.20		2.12		2.07	
23	2.65		2.44		2.27		2.19		2.12		2.07	
24	2.65		2.43		2.26		2.19		2.12		2.07	
Mean												
Max.												
Min												

Remarks
H: Gauge height in _____
Q: Discharge in _____
Zero Point of water gauge: EL. _____

N. K. Form № 1204

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WATER LEVEL AND DISCHARGE RECORD

Station: Banugao

River Basin ____ Basin 16 ____ Station 16 ____ EL. ____ m

Station Site ____ Drainage Area ____ km²

DATE	From August 1979 to 19											
Date	23		24		25		26		27		28	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	2.06		2.04		2.02		2.00		1.99		1.98	
2	2.06		2.04		2.02		2.00		1.99		1.98	
3	2.06		2.04		2.02		2.00		1.99		1.98	
4	2.06		2.04		2.02		2.00		1.99		1.98	
5	2.06		2.03		2.01		2.00		1.99		1.98	
6	2.06		2.03		2.01		2.00		1.99		1.98	
7	2.07		2.03		2.01		2.00		2.00		1.96	
8	2.07		2.03		2.01		2.00		2.00		1.96	
9	2.07		2.03		2.01		2.00		2.00		1.96	
10	2.07		2.03		2.01		2.00		2.00		1.96	
11	2.07		2.03		2.01		2.00		2.00		1.96	
12	2.07		2.03		2.01		2.00		2.00		1.96	
13	2.06		2.03		2.01		1.99		1.99		1.95	
14	2.06		2.03		2.01		1.99		1.99		1.95	
15	2.06		2.03		2.01		1.99		1.99		1.95	
16	2.06		2.03		2.01		1.99		1.99		1.95	
17	2.06		2.02		2.01		1.99		1.99		1.95	
18	2.05		2.02		2.00		1.99		1.98		1.80	
19	2.05		2.02		2.00		1.99		1.98		1.80	
20	2.05		2.02		2.00		1.99		1.98		1.80	
21	2.05		2.02		2.00		1.99		1.98		1.80	
22	2.04		2.02		2.00		1.99		1.98		1.80	
23	2.04		2.02		2.00		1.99		1.98		1.80	
24	2.04		2.02		2.00		1.99		1.98		1.80	
Mean												
Max.												
Min												
Remarks	H: Gauge height in ____ Q: Discharge in ____ Zero Point of water gauge: EL. ____											

N. K. Form 16 1204

WATER LEVEL AND DISCHARGE RECORD

Station: Banugao

River Basin _____ Basin ~~_____~~ Station ~~_____~~ EL. _____ m

Station Site _____ Drainage Area _____ km²

DATE	From August 1979 to 19											
Date	29		30		31							
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	1.80		1.90		1.80							
2	1.80		1.85		1.80							
3	1.70		1.85		1.80							
4	1.70		1.90		1.80							
5	1.70		1.90		1.80							
6	1.70		1.90		1.80							
7	1.95		1.94		1.45							
8	1.95		1.94		1.45							
9	1.95		1.94		1.97							
10	1.95		1.94		1.97							
11	1.93		1.94		1.97							
12	1.95		1.94		1.97							
13	1.95		1.94		1.97							
14	1.95		1.94		1.97							
15	1.95		1.94		1.97							
16	1.95		1.94		1.98							
17	1.95		1.94		1.98							
18	1.90		1.92		1.75							
19	1.90		1.90		1.70							
20	1.90		1.90		1.70							
21	1.90		1.90		1.70							
22	1.90		1.85		1.60							
23			1.85		1.60							
24			1.85		1.60							
Mean												
Max.												
Min												

Remarks

H: Gauge height in _____
Q: Discharge in _____
Zero Point of water gauge: EL. _____

J. K. Form. No. 1204

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WATER LEVEL AND DISCHARGE RECORD

Station: Banugao

River Basin _____ Basin No. _____ Station No. _____ EL. _____ m

Station Site _____ Drainage Area _____ km²

DATE	From September 1979 to 19											
Date	1		2		3		4		5		6	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	1.60		1.63		1.96		1.94		1.95		1.92	
2	1.60		1.65		1.97		1.92		1.97		1.92	
3	1.60		1.71		1.97		1.90		1.97		1.92	
4	1.60		1.73		1.97		1.90		1.97		1.91	
5	1.60		1.75		1.97		1.90		1.98		1.91	
6	1.60		1.70		1.97		1.90		2.01		1.91	
7	1.94		1.98		1.97		1.95		2.02		1.92	
8	1.94		1.98		1.97		1.95		2.02		1.92	
9	1.94		1.97		1.97		1.95		2.01		1.92	
10	1.94		1.97		1.97		1.95		2.01		1.92	
11	1.94		1.96		1.96		1.95		2.00		1.92	
12	1.94		1.96		1.96		1.95		2.00		1.92	
13	1.92		1.96		1.96		1.94		1.99		1.92	
14	1.92		1.96		1.96		1.94		1.98		1.92	
15	1.92		1.95		1.95		1.94		1.98		1.92	
16	1.92		1.95		1.95		1.94		1.98		1.92	
17	1.92		1.95		1.95		1.94		1.97		1.92	
18	1.60		1.95		2.00		1.93		1.94		1.90	
19	1.60		1.95		2.00		1.93		1.94		1.90	
20	1.60		1.95		2.00		1.93		1.94		1.90	
21	1.60		1.95		1.98		1.95		1.94		1.90	
22	1.60		1.96		1.97		1.95		1.93		1.90	
23	1.61		1.96		1.96		1.95		1.93		1.89	
24	1.62		1.96		1.95		1.95		1.93		1.89	
Mean												
Max.												
Min												

Remarks

H: Gauge height in _____
Q: Discharge in _____
Zero Point of water gauge: EL. _____

N. K. Form No. 1204

WATER LEVEL AND DISCHARGE RECORD

Station: Banugao

River Basin ____ Basin № ____ Station № ____ EL. ____ m

Station Site ____ Drainage Area ____ Km²

DATE From September 1979 to 19

Date	7		8		9		10		11		12	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	1.89		1.89		1.87		1.86		1.84		1.93	
2	1.89		1.88		1.87		1.85		1.84		1.94	
3	1.89		1.88		1.87		1.85		1.84		1.94	
4	1.88		1.88		1.87		1.85		1.84		1.93	
5	1.88		1.88		1.87		1.85		1.84		1.93	
6	1.88		1.88		1.87		1.85		1.84		1.93	
7	1.90		1.90		1.88		1.87		1.87		1.94	
8	1.90		1.90		1.88		1.87		1.87		1.93	
9	1.90		1.90		1.88		1.87		1.87		1.93	
10	1.90		1.90		1.88		1.87		1.87		1.92	
11	1.90		1.90		1.88		1.87		1.88		1.92	
12	1.90		1.90		1.88		1.87		1.88		1.91	
13	1.91		1.89		1.88		1.87		1.88		1.91	
14	1.91		1.89		1.88		1.88		1.88		1.91	
15	1.91		1.89		1.88		1.88		1.89		1.90	
16	1.92		1.89		1.88		1.88		1.89		1.90	
17	1.92		1.89		1.88		1.88		1.89		1.90	
18	1.90		1.87		1.86		1.85		1.87		1.90	
19	1.90		1.87		1.86		1.85		1.87		1.90	
20	1.90		1.87		1.86		1.85		1.89		1.91	
21	1.90		1.87		1.86		1.85		1.90		1.91	
22	1.90		1.87		1.86		1.85		1.91		1.92	
23	1.89		1.87		1.86		1.85		1.92		1.92	
24	1.89		1.87		1.86		1.85		1.92		1.92	
Mean												
Max.												
Min												

Remarks
H: Gauge height in ____
Q: Discharge in ____
Zero Point of water gauge: EL. ____

N. K. Form № 1204

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WATER LEVEL AND DISCHARGE RECORD

Station: Bonugao

River Basin ____ Basin No. ____ Station No. ____ EL. ____ m

Station Site ____ Drainage Area ____ km²

DATE From September 19 79 to 19

Date	13		14		15		16		17		18	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	1.93		1.99		2.36		2.58		2.54		2.28	
2	1.93		2.00		2.35		2.60		2.53		2.27	
3	1.93		2.01		2.34		2.64		2.52		2.26	
4	1.93		2.01		2.34		2.65		2.51		2.25	
5	1.94		2.02		2.33		2.66		2.50		2.24	
6	1.94		2.02		2.33		2.66		2.49		2.24	
7	1.94		2.08		2.41		2.58		2.49		2.23	
8	1.94		2.16		2.43		2.56		2.47		2.22	
9	1.94		2.24		2.45		2.55		2.45		2.21	
10	1.95		2.30		2.47		2.52		2.43		2.21	
11	1.95		2.35		2.48		2.50		2.42		2.19	
12	1.95		2.40		2.49		2.49		2.39		2.19	
13	1.95		2.45		2.56		2.52		2.38		2.18	
14	1.94		2.52		2.56		2.55		2.37		2.18	
15	1.94		2.50		2.56		2.53		2.35		2.18	
16	1.94		2.46		2.53		2.52		2.34		2.28	
17	1.94		2.42		2.50		2.51		2.32		2.56	
18	1.94		2.38		2.44		2.60		2.32		2.57	
19	1.94		2.38		2.44		2.60		2.32		2.59	
20	1.95		2.39		2.45		2.59		2.31		2.64	
21	1.96		2.39		2.47		2.58		2.31		2.59	
22	1.97		2.38		2.49		2.57		2.30		2.59	
23	1.98		2.38		2.50		2.56		2.30		2.60	
24	1.98		2.37		2.55		2.55		2.29		2.60	
Mean												
Max.												
Min												

Remarks

H: Gauge height in ____

Q: Discharge in ____

Zero Point of water gauge: EL. ____

N. K. Form No. 1204

WATER LEVEL AND DISCHARGE RECORD

Station: Banugao

River Basin | Basin No. | Station No. | EL. m

Station Site | Drainage Area km²

DATE	From September 19 79 to 19											
Date	19		20		21		22		23		24	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	2.60		3.36		2.73		2.44		2.32		2.30	
2	2.61		3.31		2.70		2.43		2.31		2.29	
3	2.61		3.26		2.67		2.42		2.31		2.28	
4	2.63		3.21		2.63		2.41		2.31		2.28	
5	2.63		3.16		2.61		2.41		2.30		2.27	
6	2.64		3.09		2.60		2.40		2.30		2.27	
7	2.75		3.00		2.58		2.40		2.30		2.27	
8	3.52		2.99		2.57		2.39		2.29		2.25	
9	3.82		2.97		2.56		2.38		2.28		2.24	
10	3.82		2.95		2.55		238		2.27		2.24	
11	3.98		2.93		2.54		2.37		2.27		2.21	
12	4.16		2.90		2.52		2.37		2.27		2.21	
13	4.17		2.86		2.52		2.36		2.26		2.21	
14	4.02		2.84		2.52		2.36		2.26		2.20	
15	3.95		2.83		2.52		2.35		2.25		2.19	
16	3.82		2.80		2.51		2.35		2.25		2.18	
17	3.16		2.78		2.50		2.34		2.25		2.18	
18	3.84		2.88		2.50		2.34		2.25		2.20	
19	3.72		2.87		2.48		2.33		2.25		2.20	
20	3.63		2.85		2.48		2.33		2.25		2.20	
21	3.56		2.85		2.47		2.33		2.26		2.19	
22	3.58		2.84		2.47		2.32		2.26		2.19	
23	3.49		2.80		2.46		2.32		2.27		2.19	
24	3.42		2.77		2.45		2.32		2.28		2.18	
Mean												
Max.												
Min												

Remarks

H: Gauge height in _____

Q: Discharge in _____

Zero Point of water gauge: EL. _____

N. K. Form No. 1204

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WATER LEVEL AND DISCHARGE RECORD

Station: Banugao

River Basin _____ Basin No. _____ Station No. _____ EL. _____ m

Station Site _____ Drainage Area _____ Km²

DATE	From September 19 79 to 19											
Date	25		26		27		28		29		30	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	2.18		2.18		2.28		2.34		2.19		2.22	
2	2.17		2.20		2.28		2.35		2.18		2.23	
3	2.17		2.22		2.28		2.36		2.18		2.24	
4	2.16		2.26		2.27		2.37		2.18		2.24	
5	2.16		2.31		2.27		2.37		2.17		2.24	
6	2.16		2.31		2.26		2.35		2.17		2.23	
7	2.16		2.29		2.26		2.29		2.16		2.23	
8	2.16		2.25		2.21		2.27		2.15		2.21	
9	2.16		2.22		2.22		2.26		2.15		2.22	
10	2.16		2.21		2.20		2.26		2.15		2.21	
11	2.15		2.19		2.18		2.24		2.15		2.21	
12	2.17		2.17		2.17		2.23		2.14		2.21	
13	2.16		2.16		2.17		2.21		2.14		2.21	
14	2.16		2.16		2.16		2.21		2.14		2.20	
15	2.15		2.17		2.16		2.21		2.14		2.20	
16	2.15		2.18		2.16		2.21		2.14		2.18	
17	2.15		2.18		2.14		2.20		2.14		2.19	
18	2.15		2.23		2.25		2.20		2.15		2.20	
19	2.15		2.27		2.25		2.20		2.16		2.20	
20	2.15		2.34		2.26		2.20		2.17		2.20	
21	2.15		2.30		2.27		2.20		2.18		2.20	
22	2.15		2.32		2.28		2.19		2.19		2.18	
23	2.15		2.31		2.30		2.19		2.20		2.18	
24	2.16		2.30		2.32		2.19		2.21		2.18	
Mean												
Max.												
Min												

Remarks

H: Gauge height in _____
Q: Discharge in _____
Zero Point of water gauge: EL. _____

N. K. Form No. 1204

WATER LEVEL AND DISCHARGE RECORD

Station: Sanuggo

River Basin | Basin # | Station # | EL. m

Station Site | Drainage Area km²

DATE	From October 1979 to 19											
Date	1		2		3		4		5		6	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	2.18		2.38		2.40		2.60		3.60		3.85	
2	2.17		2.37		2.39		2.65		3.70		3.85	
3	2.17		2.37		2.38		2.70		3.80		3.80	
4	2.17		2.37		2.38		2.79		3.85		3.80	
5	2.17		2.36		2.37		2.72		3.90		3.77	
6	2.18		2.35		2.35		2.70		4.00		3.73	
7	2.17		2.37		2.38		2.71		4.15		3.61	
8	2.17		2.28		2.37		2.69		4.08		3.58	
9	2.17		2.40		2.37				3.91		3.56	
10	2.17		2.44		2.37				3.83		3.55	
11	2.17		2.48		2.37		2.67		3.82		3.54	
12	2.17		2.51		2.37		2.68		4.11		3.56	
13	2.17		2.50		2.38		2.68		4.06		3.58	
14	2.16		2.48		2.38		2.69		4.00		3.58	
15	2.16		2.48		2.39		2.74		3.98		3.58	
16	2.16		2.47		2.39				3.96		3.57	
17	2.16		2.46		2.40		2.98		3.99		3.56	
18	2.16		2.45		2.41		2.98		4.00		3.60	
19	2.20		2.45		2.42		3.00		3.95		3.65	
20	2.25		2.45		2.44		3.10		3.93		3.68	
21	2.30		2.44		2.46		3.20		3.90		3.70	
22	2.36		2.43		2.48		3.30		3.88		3.72	
23	2.38		2.42		2.50		3.40		3.86		3.75	
24	2.40		2.41		2.55		3.50		3.86		3.78	
Mean												
Max.												
Min												

Remarks

H: Gauge height in _____

Q: Discharge in _____

Zero Point of water gauge: EL. _____

402

WATER LEVEL AND DISCHARGE RECORD

Station: Banugao

River Basin ____ Basin No. ____ Station No. ____ EL. ____ m

Station Site ____ Drainage Area ____ Km²

DATE From October 19 79 to 19

Date	7		8		9		10		11		12	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	3.82		3.90				3.13		3.00		2.73	
2	3.84		3.87						2.99		2.72	
3	3.87		3.84		3.50		3.12		2.98		2.71	
4	3.89		3.87		3.47		3.11		2.97		2.70	
5	3.85		3.79		3.45		3.10		2.96		2.69	
6	3.70		3.75		3.43		3.09		2.95		2.68	
7	3.75		3.70		3.39		3.04		2.93		2.68	
8	3.73		3.70		3.29		3.03		2.90		2.67	
9	3.61		3.71		3.28		3.03		2.88		2.65	
10	3.61		3.86		3.28		3.03		2.87		2.64	
11	3.66		3.94		3.28		3.03		2.85		2.64	
12	3.72		3.97		3.27		3.03		2.84		2.62	
13	3.73		4.00		3.33		3.03		2.84		2.62	
14	3.87		3.98		3.31		3.04		2.83		2.61	
15	3.96		3.93		3.29		3.04		2.81		2.61	
16	4.07		3.90		3.26		3.05		2.80		2.61	
17	4.17		3.89		3.23		3.06		2.80		2.60	
18	4.21		3.85		3.20		3.07		2.80		2.60	
19	4.19		3.80		3.20		3.08		2.78		2.60	
20	4.15		3.77		3.19		3.05		2.77		2.61	
21	4.03		3.74		3.18		3.03		2.76		2.62	
22	3.98		3.70		3.17		3.01		2.75		2.61	
23	3.95		3.69		3.15		3.01		2.74		2.60	
24	3.93		3.67		3.14				2.73		2.59	
Mean												
Max.												
Min												

Remarks

H: Gauge height in ____

Q: Discharge in ____

Zero Point of water gauge: EL. ____

N. K. Form No. 1204

WATER LEVEL AND DISCHARGE RECORD

Station: Banugao

River Basin _____ Basin No. _____ Station No. _____ EL. _____ m

Station Site _____ Drainage Area _____ km²

DATE From October 19 79 to 19

Date	13		14		15		16		17		18	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	2.58		2.57		2.41		2.32		2.26		2.20	
2	2.57		2.56		2.42		2.31		2.26		2.20	
3	2.56		2.56		2.43		2.31		2.27		2.21	
4	2.56		2.56		2.44		2.31		2.28		2.22	
5	2.55		2.56		2.45		2.34		2.29		2.23	
6	2.54		2.55		2.45		2.37		2.30		2.24	
7	2.68		2.54		2.46		2.42		2.30		2.25	
8	2.67		2.52		2.45		2.42		2.30		2.25	
9	2.66		2.52		2.45		2.40		2.29		2.25	
10	2.64		2.51		2.44		2.39		2.28		2.24	
11	2.64		2.50		2.43		2.37		2.28		2.24	
12	2.68		2.49		2.43		2.37		2.28		2.24	
13	2.62		2.49		2.43		2.36		2.27		2.23	
14	2.61		2.48		2.42		2.36		2.27		2.23	
15	2.61		2.48		2.47		2.36		2.37		2.22	
16	2.60		2.48		2.42		2.35		2.26		2.22	
17	2.60		2.47		2.42		2.35		2.26		2.22	
18	2.58		2.45		2.39		2.30		2.24		2.20	
19	2.57		2.43		2.36		2.27		2.22		2.19	
20	2.57		2.40		2.33		2.26		2.22		2.18	
21	2.57		2.39		2.33		2.26		2.21		2.17	
22			2.39		2.33		2.26		2.21		2.17	
23	2.57		2.40		2.32		2.26		2.21		2.16	
24	2.57		2.40		2.32		2.26		2.21		2.16	
Mean												
Max.												
Min												

Remarks
H: Gauge height in _____
Q: Discharge in _____
Zero Point of water gauge: EL. _____

N. K. Form No. 1204

404

WATER LEVEL AND DISCHARGE RECORD

Station: Banugao

River Basin | Basin No. | Station No. | EL. m

Station Site | Drainage Area km²

DATE	From October 19 79 to 19											
Date	19		20		21		22		23		24	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	2.16		2.13		2.37		2.53		2.40		2.29	
2	2.16		2.13		2.42		2.55		2.39		2.29	
3	2.16		2.13		2.45		2.56		2.38		2.29	
4	2.16		2.12		2.48		2.56		2.37		2.28	
5	2.17		2.12		2.55		2.58		2.36		2.28	
6	2.17		2.12		2.58		2.60		2.35		2.28	
7	2.18		2.12		2.58		2.61		2.34		2.28	
8	2.18		2.12		2.58		2.57		2.34		2.28	
9	2.18		2.12		2.57		2.55		2.33		2.28	
10	2.18		2.12		2.56		2.53		2.32		2.28	
11	2.18		2.18		2.85		2.51		2.31		2.28	
12	2.17		2.20		2.70		2.50		2.31		2.29	
13	2.17		2.17		2.73		2.48		2.30		2.30	
14	2.17		2.16		2.60		2.48		2.30		2.31	
15	2.17		2.14		2.53		2.47		2.29		2.31	
16	2.16		2.13		2.52		2.46		2.29		2.32	
17	2.16		2.13		2.51		2.43		2.28		2.33	
18	2.14		2.13		2.49		2.44		2.30		2.33	
19	2.14		2.15		2.48		2.43		2.30		2.33	
20	2.14		2.18		2.48		2.42		2.30		2.33	
21	2.13		2.22		2.49		2.42		1.30		2.33	
22	2.13		2.26		2.49		2.41		2.30		2.33	
23	2.13		2.30		2.50		2.41		2.29		2.33	
24	2.13		2.36		2.51		2.41		2.29		2.33	
Mean												
Max.												
Min												

Remarks

H: Gauge height in _____

Q: Discharge in _____

Zero Point of water gauge: EL. _____

N. K. Form No. 1204

WATER LEVEL AND DISCHARGE RECORD

Station: Bonggao

River Basin | Basin ✱ | Station ✱ | EL. m

Station Site | Drainage Area Km²

DATE	From October 1979 to 19											
Date	25		26		27		28		29		30	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	2.32		2.35		2.29		2.42		2.38		2.28	
2	2.32		2.34		2.28		2.42		2.38		2.27	
3	2.32		2.33		2.28		2.43		2.37		2.27	
4	2.32		2.32		2.28		2.44		2.37		2.26	
5	2.32		2.32		2.27		2.46		2.35		2.26	
6	2.32		2.31		2.27		2.47		2.34		2.25	
7	2.32		2.30		2.27		2.49		2.33		2.25	
8	2.49		2.29		2.27		2.49		2.33		2.25	
9	2.46		2.29		2.27		2.48		2.32		2.25	
10	2.44		2.29		2.27		2.48		2.32		2.25	
11	2.43		2.28		2.26		2.48		2.31		2.24	
12	2.41		2.28		2.26		2.47		2.31		2.24	
13	2.41		2.28		2.26		2.46		2.31		2.24	
14	2.41		2.27		2.26		2.44		2.31		2.24	
15	2.40		2.27		2.29		2.44		2.30		2.23	
16	2.39		2.27		2.37		2.43		2.30		2.23	
17	2.38		2.27		2.38		2.42		2.30		2.23	
18	2.39		2.27		2.38		2.41		2.30		2.23	
19	2.39		2.27		2.38		2.41		2.30		2.24	
20	2.38		2.28		2.39		2.41		2.30		2.25	
21	2.38		2.29		2.39		2.40		2.29		2.27	
22	2.37		2.29		2.40		2.40		2.29		2.29	
23	2.37		2.29		2.40		2.39		2.28		2.30	
24	2.36		2.30		2.41		2.39		2.28		2.31	
Mean												
Max.												
Min												

Remarks

H: Gauge height in _____
Q: Discharge in _____
Zero Point of water gauge: EL. _____

N.K. Form ✱ 1204

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WATER LEVEL AND DISCHARGE RECORD

Station: Banugao

River Basin | Basin № | Station № | EL. m

Station Site | Drainage Area Km²

DATE	From October 1979 to 19											
Date	31											
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	2.40											
2	2.70											
3	2.90											
4	3.00											
5	3.12											
6	3.38											
7	3.41											
8	3.38											
9	3.26											
10	3.23											
11	3.43											
12	3.37											
13	3.35											
14	3.26											
15	3.18											
16	3.10											
17	3.08											
18	3.05											
19	3.02											
20	3.00											
21	2.95											
22	2.90											
23	2.88											
24	2.86											
Mean												
Max.												
Min												
Remarks	H: Gauge height in _____ Q: Discharge in _____ Zero Point of water gauge: EL. _____											

N. K. Form № 1204

WATER LEVEL AND DISCHARGE RECORD

Station: Banugao

River Basin _____ Basin No. _____ Station No. _____ EL. _____ m

Station Site _____ Drainage Area _____ Km²

DATE	From November 19 79 to 19											
Date	1		2		3		4		5		6	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	2.84		2.83		2.77		3.21		2.80		2.62	
2	2.83		2.82		2.81		3.18		2.82		2.61	
3	2.82		2.81		2.83		3.14		2.83		2.60	
4	2.82		2.80		2.86		3.10		2.75		2.59	
5	2.81		2.79		2.88		3.09		2.74		2.58	
6	2.81		2.78		2.96		3.06		2.73		2.57	
7	2.94		2.78		2.92		3.05		2.72		2.57	
8	2.93		2.77		3.16		3.03		2.71		2.56	
9	2.91		2.76		3.20		3.00		2.70		2.55	
10	2.89		2.76		3.25		2.99		2.69		2.54	
11	2.88		2.75		3.38		2.98		2.69		2.53	
12	2.87		2.76		3.42		2.97		2.68		2.53	
13	2.86		2.76		3.52		2.96		2.67		2.53	
14	2.87		2.76		3.52		2.95		2.66		2.53	
15	2.86		2.77		3.56		2.93		2.66		2.53	
16	2.85		2.78		3.57		2.91		2.67		2.52	
17	2.83		2.79		3.57		2.88		2.67		2.85	
18	2.87		2.79		3.55		2.86		2.73		2.56	
19	2.84		2.79		3.49		2.86		2.68		2.55	
20	2.86		2.78		3.43		2.85		2.67			
21	2.89		2.79		3.39		2.84		2.66			
22	2.90		2.80		3.37		2.83		2.65		2.52	
23	2.87		2.79		3.32		2.82		2.64		2.51	
24	2.84		2.78		3.29		2.81		2.63		2.50	
Mean												
Max.												
Min												
Remarks	H: Gauge height in _____ Q: Discharge in _____ Zero Point of water gauge: EL. _____											

J. K. Form No. 1204

WATER LEVEL AND DISCHARGE RECORD

Station: Banugao

River Basin | Basin No. | Station No. | EL. m

Station Site | Drainage Area km²

DATE	From November 1979 to 19											
Date	7		8		9		10		11		12	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	2.50		2.37		2.36		2.25		2.19		2.26	
2	2.49		2.37		2.38		2.24		2.18		2.28	
3	2.48		2.36		2.40		2.24		2.18		2.29	
4	2.47		2.36		2.41		2.23		2.18		2.30	
5	2.46		2.35		2.41		2.23		2.18		2.32	
6	2.45		2.35		2.40		2.20		2.18		2.32	
7	2.46		2.35		2.37		2.23		2.18		2.31	
8	2.45		2.35		2.36		2.23		2.18		2.30	
9	2.44		2.34		2.35		2.22		2.18		2.29	
10	2.44		2.34		2.34		2.22		2.17		2.27	
11	2.43		2.33		2.33		2.22		2.17		2.26	
12	2.43		2.38		2.32		2.21		2.17		2.25	
13	2.43		2.37		2.31		2.21		2.17		2.24	
14	2.42		2.31		2.31		2.21		2.17		2.24	
15	2.42		2.31		2.30		2.21		2.17		2.23	
16	2.41		2.31		2.30		2.21		2.18		2.22	
17	2.41		2.31		2.29		2.20		2.19		2.21	
18	2.40		2.31		2.28		2.20		2.18		2.21	
19	2.40		2.31		2.27		2.20		2.18		2.21	
20	2.39		2.30		2.26		2.20		2.18		2.21	
21	2.39		2.30		2.26		2.20		2.19		2.20	
22	2.38		2.31		2.26		2.19		2.20		2.20	
23	2.38		2.32		2.25		2.19		2.22		2.20	
24	2.37				2.25		2.19		2.24		2.20	
Mean												
Max.												
Min												
Remarks	H: Gauge height in Q: Discharge in Zero Point of water gauge: EL.											

N. K. Form No. 1204

WATER LEVEL AND DISCHARGE RECORD

Station: Sanuqao

River Basin | Basin # | Station # | EL. m

Station Site | Drainage Area km²

DATE	From November 1979 to 19											
Date	13		14		15		16		17		18	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	2.20		2.16		2.85		2.97		3.18		2.96	
2	2.19		2.16		2.84		2.90		3.17		2.94	
3	2.19		2.16		2.83		2.92		3.16		2.92	
4	2.19		2.16		2.83		2.94		3.15		2.91	
5	2.19		2.16		2.82		2.98		3.15		2.90	
6	2.18		2.16		2.82		3.00		3.14		2.82	
7	2.19		2.17		2.80		3.11		3.15		2.89	
8	2.19		2.42		2.80		3.15		3.14		2.88	
9	2.18		2.52		2.79		3.19		3.13		2.92	
10	2.18		2.95		2.78		3.27		3.13		2.94	
11	2.18		3.13		2.76		3.46		3.13		2.95	
12	2.17		3.27		2.74		3.65		3.15		2.95	
13	2.17		3.03		2.73		3.73		3.19		2.94	
14	2.17		2.98		2.73		3.63		3.17		2.94	
15	2.16		2.95		2.75		3.54		3.16		2.93	
16	2.16		2.94		2.76		3.47		3.16		2.91	
17	2.16				2.77		3.40		3.12			
18	2.16		2.94		2.78		3.40		3.10		2.89	
19	2.16		2.94		2.78		3.35		3.09		2.87	
20	2.16		2.89		2.77		3.30		3.08		2.86	
21	2.16		2.88		2.78		3.25		3.05		2.84	
22	2.16		2.87		2.80		3.23		3.03		2.82	
23	2.16		2.86		2.82		3.21		3.00		2.80	
24	2.16				2.84		3.19		2.98		2.78	
Mean												
Max.												
Min												

Remarks

H: Gauge height in _____
Q: Discharge in _____
Zero Point of water gauge: EL. _____

N. K. Form. No. 1204

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WATER LEVEL AND DISCHARGE RECORD

Station: Banuggo

River Basin _____ Basin No. _____ Station No. _____ EL. _____ m

Station Site _____ Drainage Area _____ Km²

DATE	From November 1979 to 19											
Date	19		20		21		22		23		24	
Time	H	Q	H	Q	H	Q	H	Q	H	Q	H	Q
1	2.77		2.80				2.93		2.89		2.80	
2	2.76		2.83		2.97				2.88		2.82	
3	2.75		2.86		2.97		2.93		2.87		2.84	
4	2.75		2.88		2.96		2.92		2.86		2.86	
5	2.74		2.91		2.96		2.92		2.84		2.87	
6	2.73		3.93		2.96		2.91		2.81		2.87	
7	2.74		2.95		2.98		2.90		2.79		2.88	
8	2.74		2.96				2.90		2.79		2.87	
9	2.75		2.96		2.97		2.90		2.77		2.85	
10	2.79		2.97		3.00		2.89		2.77		2.84	
11	2.82		2.98		3.03		2.88		2.76		2.84	
12	2.84		2.98		3.03		2.88		2.76		2.83	
13	2.85		2.99		3.03		2.87		2.75		2.83	
14	2.85		2.99		3.00		2.85		2.74		2.82	
15	2.85		2.99		3.03		2.85		2.73		2.80	
16	2.83		2.99		3.02		2.84		2.72		2.79	
17	2.83		2.98		3.02		2.84		2.71		2.78	
18	2.82		3.01		3.01		2.86		2.70		2.78	
19	2.81		3.00		2.99		2.89		2.70		2.76	
20	2.80		3.00		2.98		2.89		2.71		2.75	
21	2.79		2.99		2.97		2.90		2.72		2.75	
22	2.78		2.98		2.96		2.91		2.74		2.74	
23	2.78		2.98		2.95		2.90		2.76		2.73	
24			2.97		2.94		2.90		2.78		2.72	
Mean												
Max.												
Min												

Remarks

H: Gauge height in _____

Q: Discharge in _____

Zero Point of water gauge: EL. _____

N. Z. Form No. 1204