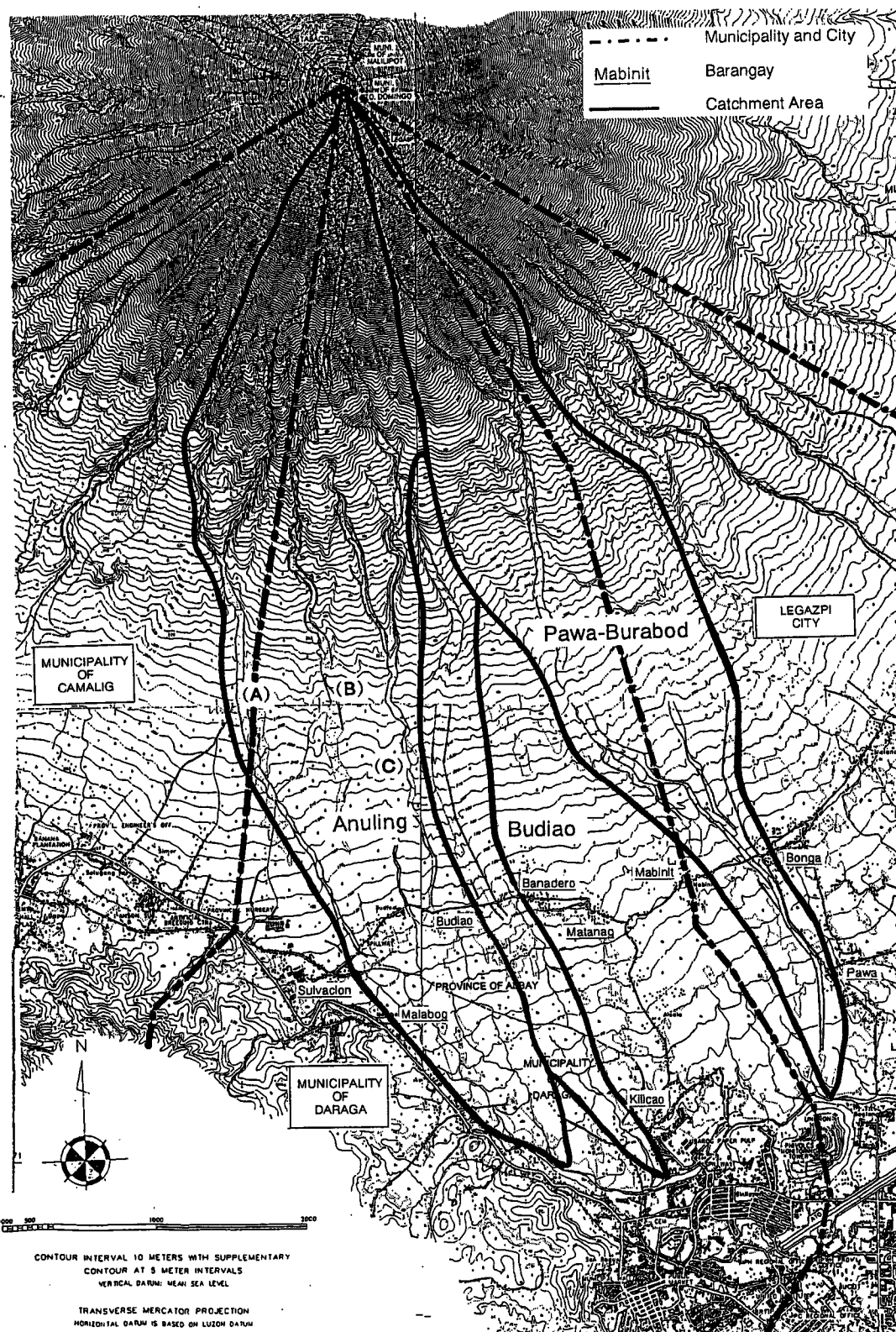


Table XV 4.2 Implementation Schedule of Sabo Works and Length of Facility for Each Package

Phase	River	Stage	Package	Works	Facility	Length (m)	Purpose
I	Pawa-Burabod	I	-	Sand Pocketing Work & Channeling Works	Spur Dike, Sabo Dam and Training Dike	5,875	Criteria of Priority Order for the Implementation Schedule on Sabo Works is as follows; I: Construction of the lower half of long dikes to protect core area of Barangays II: Construction of the upper half of long dikes to protect surroundings of Barangays III: Construction of the sabo dam to complete a sand pocketing works and fulfill a function of control to the mud flow IV: Construction of the training dike to prevent disasters in the lower area from the sand pocket facilities
				Sand Pocketing Work	Spur Dike	1,675	
				Sand Pocketing Work	Spur Dike	1,800	
				Sand Pocketing Work	Sabo Dam	650	
II	Anoling, Budiaod	II	IV	Channeling Work	Training Dike	4,750	
				Sand Pocketing Work	Spur Dike	1,750	
				Sand Pocketing Work	Spur Dike	1,600	
				Sand Pocketing Work	Sabo Dam	350	
	Padang	I	IV	Channeling Work	Training Dike	2,000	
					Sand Pocketing Work	Spur Dike	1,900
					Sand Pocketing Work	Spur Dike	2,050
					Sand Pocketing Work	Sabo Dam	350
	Basud	II	IV	Channeling Work	Training Dike	2,500	
					Sand Pocketing Work	Spur Dike	1,750
					Sand Pocketing Work	Spur Dike	2,000
					Sand Pocketing Work	Spur Dike	1,300
Masarawag, Quirangay	III	V	Channeling Work	Sabo Dam	450		
				Sand Pocketing Work	Training Dike	3,050	
				Sand Pocketing Work	Deflection Dike	850	
				Sand Pocketing Work	Spur Dike	1,800	
				Sand Pocketing Work	Spur Dike	1,750	
Bulawan	I	I	Channeling Work	Spur Dike	2,000		
				Sand Pocketing Work	Spur Dike	2,250	
				Sand Pocketing Work	Spur Dike	950	
				Sand Pocketing Work	Spur Dike	1,000	
				Sand Pocketing Work	Sabo Dam	600	
San Vicente	II	V	Protection Work	Spur Dike	650		
				Sand Pocketing Work	Spur Dike	500	
				Sand Pocketing Work	Spur Dike	2,000	
				Sand Pocketing Work	Spur Dike	2,250	
				Sand Pocketing Work	Spur Dike	950	
				Sand Pocketing Work	Spur Dike	1,000	
Buang	III	I	Protection Work	Sabo Dam	600		
				Sand Pocketing Work	Spur Dike	650	
				Sand Pocketing Work	Spur Dike	500	
				Sand Pocketing Work	Spur Dike	500	

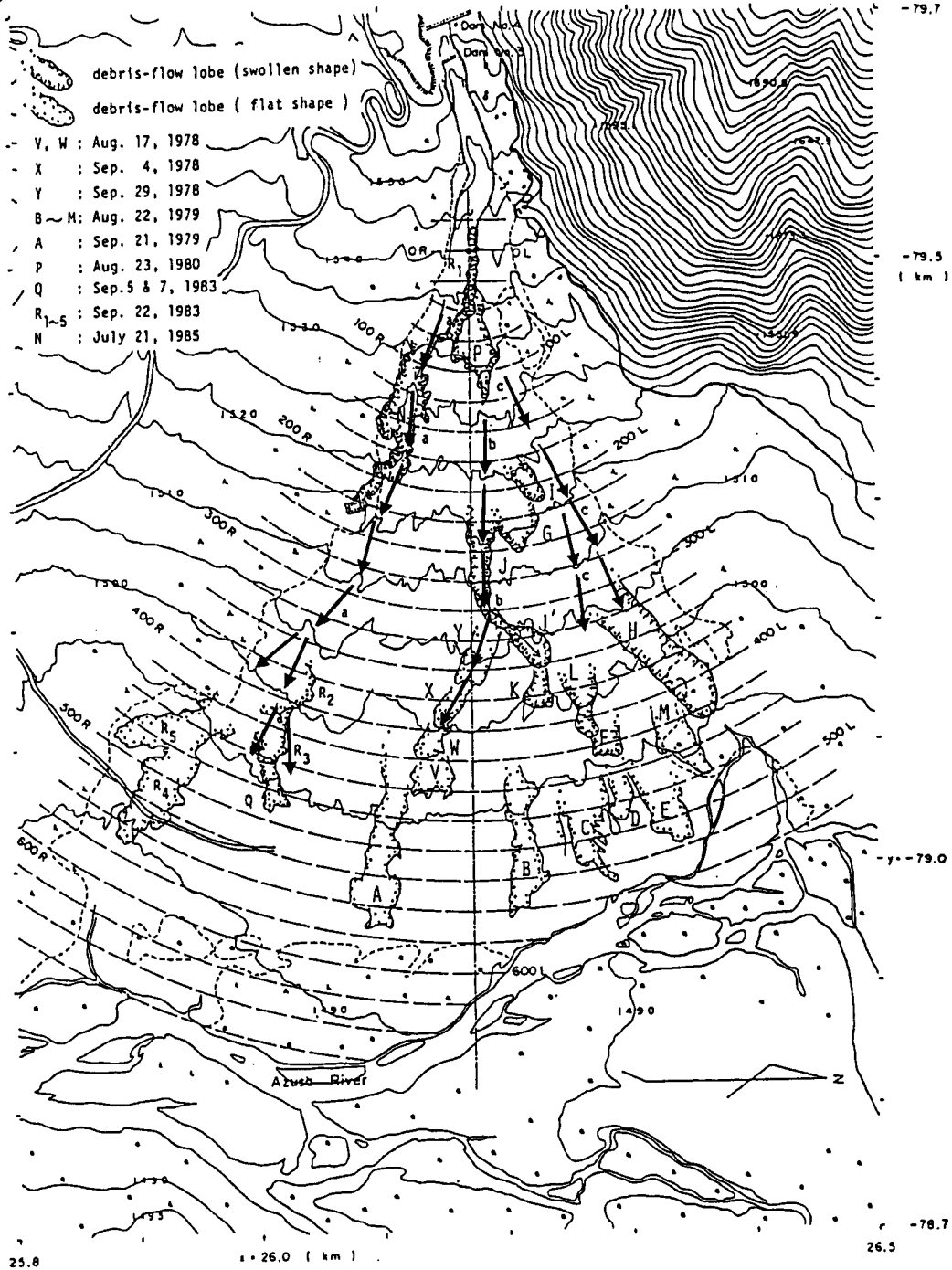


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Figure XV 1.1
Administrative Boundary of the Yawa River Basin

Komikamihori Fan

Sep. 1980

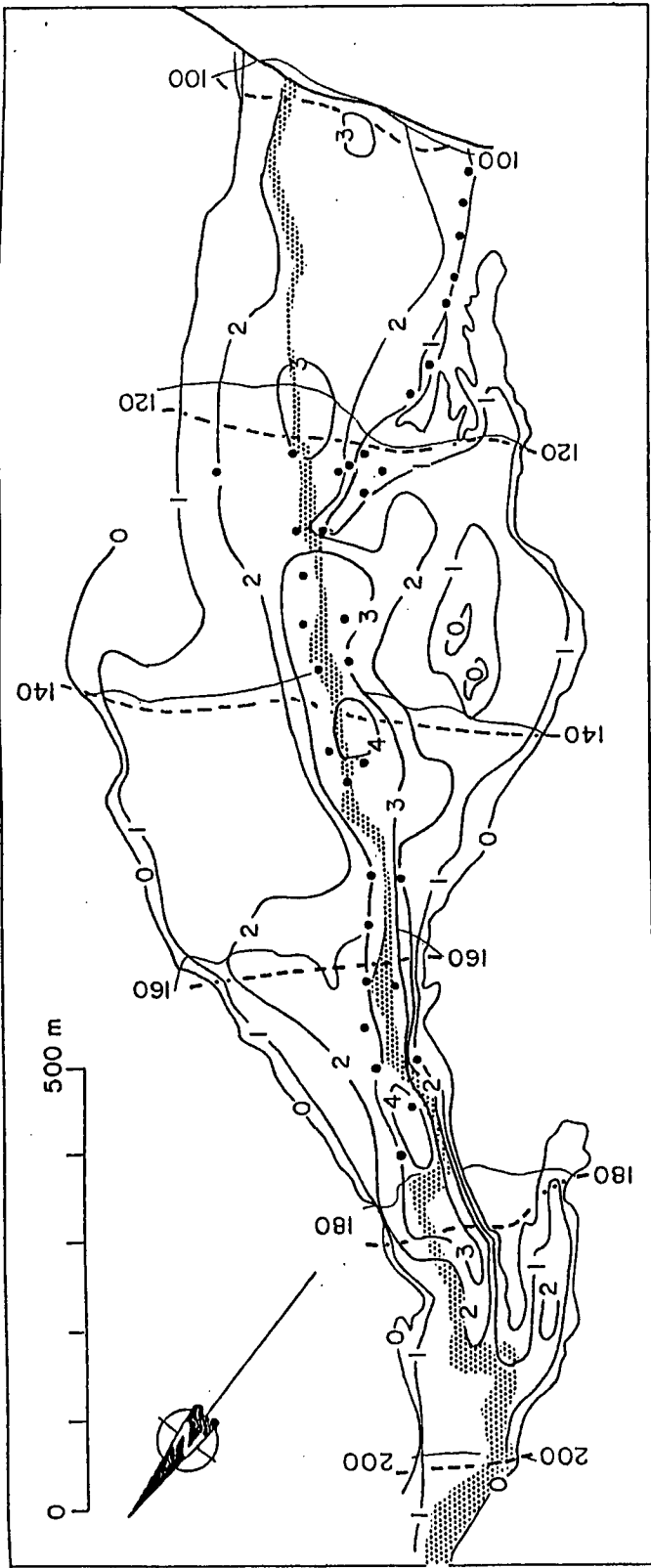


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Figure XV 2.1

Distribution of Debris Flow Lobes on an Alluvial
 Fan Routes are shown in Arrows



Isopach map of eruption-lahar deposit thicknesses (m) in the principal field. The heavy dashed and fine solid lines across the field are pre- and post-eruption contour lines, from the 1:25,000 JICA topographic map and the 1985 PHIVOLCS-UICDOGS survey, respectively. The dots are sites where thicknesses were measured directly, and the stippling shows the principal channel as mapped in 1985.

Source: Kelvin, S. Rodolfo, 1989

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**Figure XV 2.2
Isopach Map of Lahar Deposit Thickness in the Pawa-Burabod River Field caused on the 1984 Eruption**

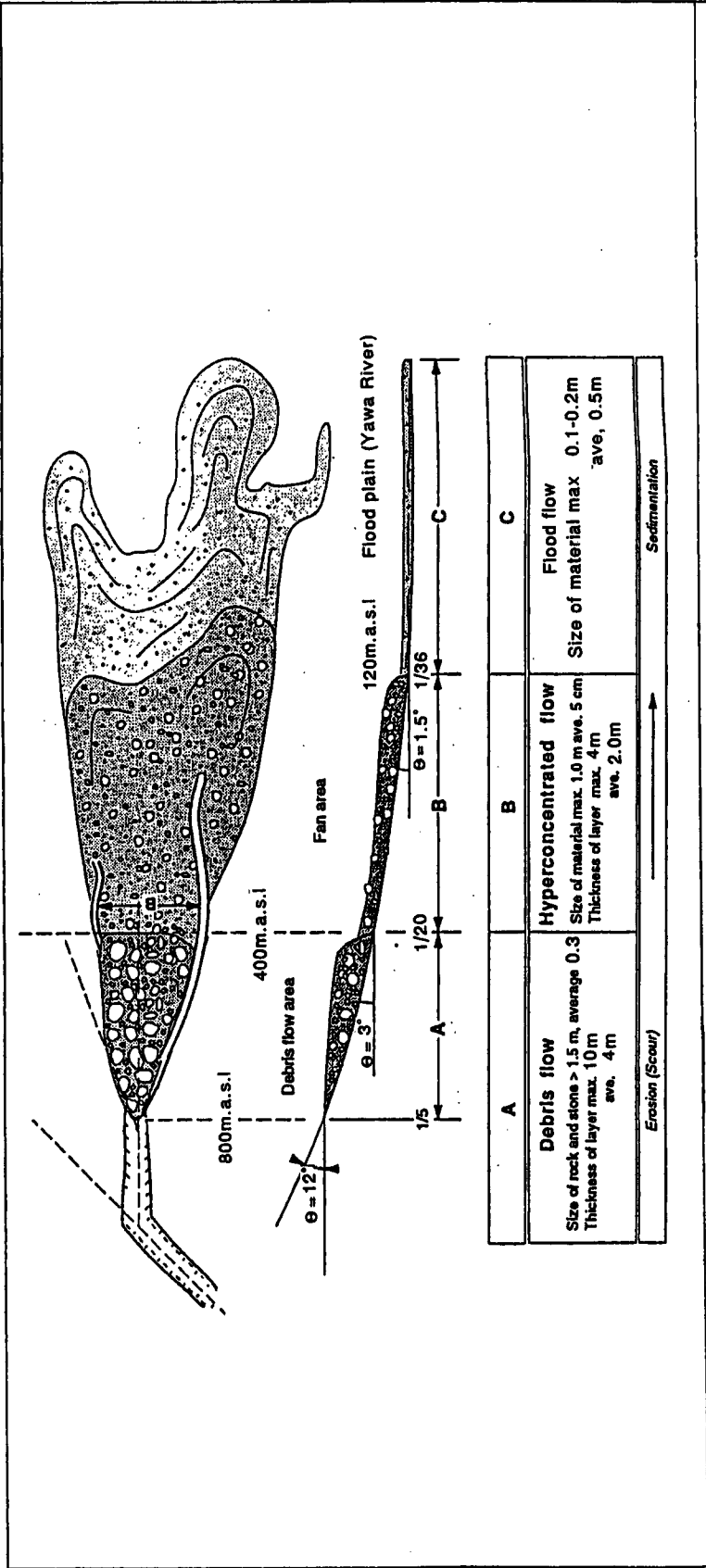


Figure XV 2.3
 Characteristic of Flow Process as a Function of River Bed Gradient

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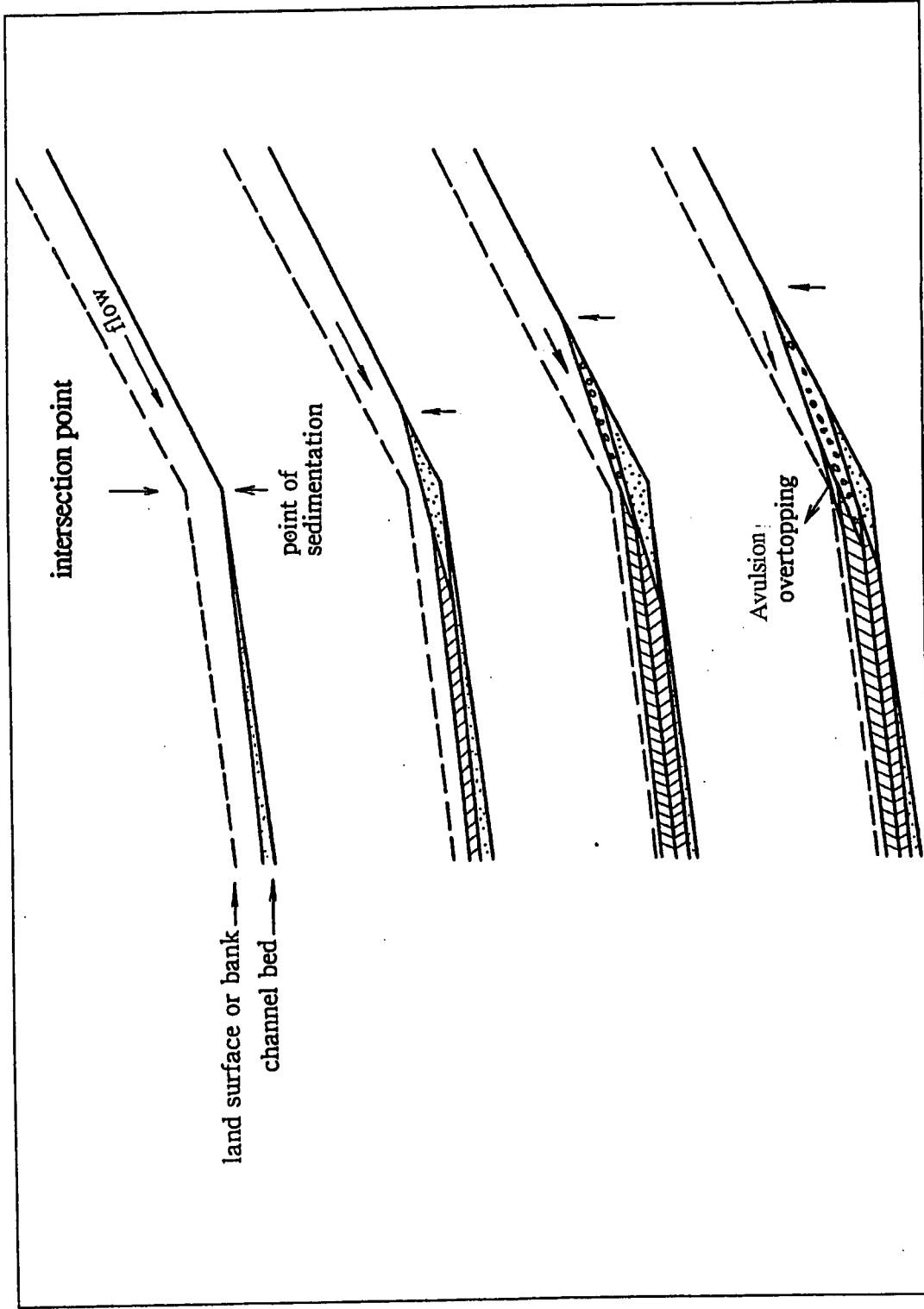
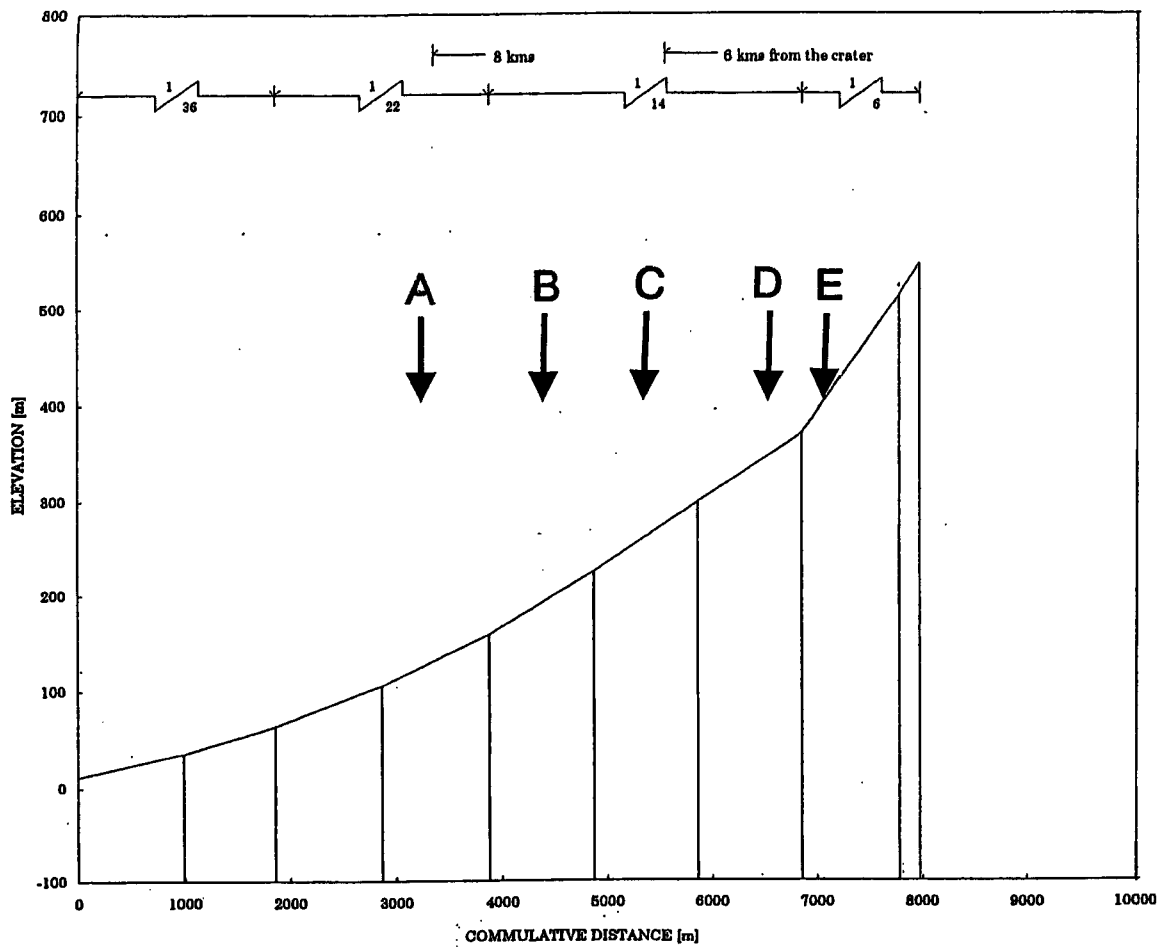


Figure XV 2.4
 Mechanism of Aggradation at an Intersection Point, Leading to
 Overtopping (UN, 1996)

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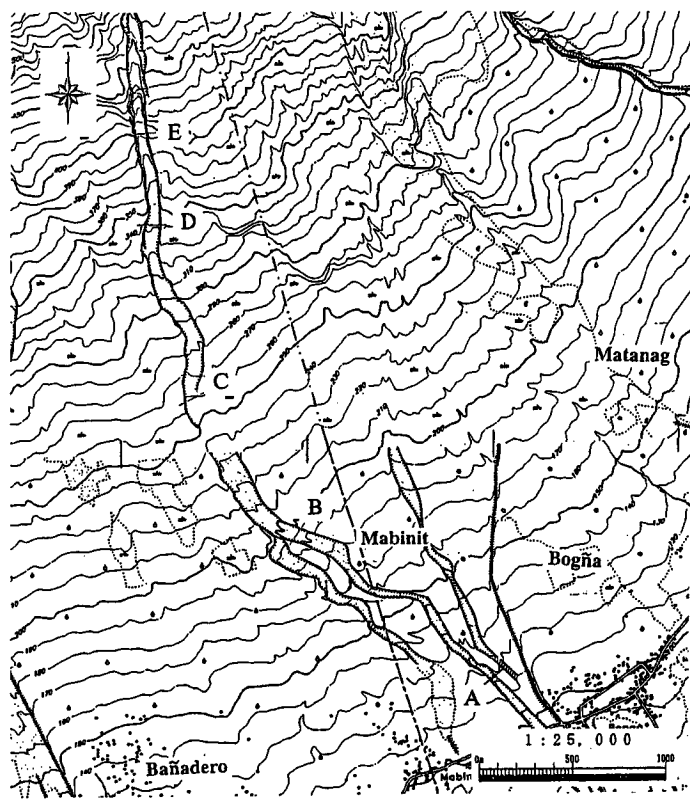
RIVER BED ELEVATION	11.27	35.32	69.63	105.51	167.16	224.27	297.53	369.73	612.86	647.26
COMULATIVE DISTANCE	0.00	988.30	1861.69	2862.74	3879.30	4874.33	5869.30	6857.96	7784.86	7977.93
DISTANCE	0.00	988.30	873.39	1001.06	1016.66	996.03	950.97	989.66	926.51	153.07

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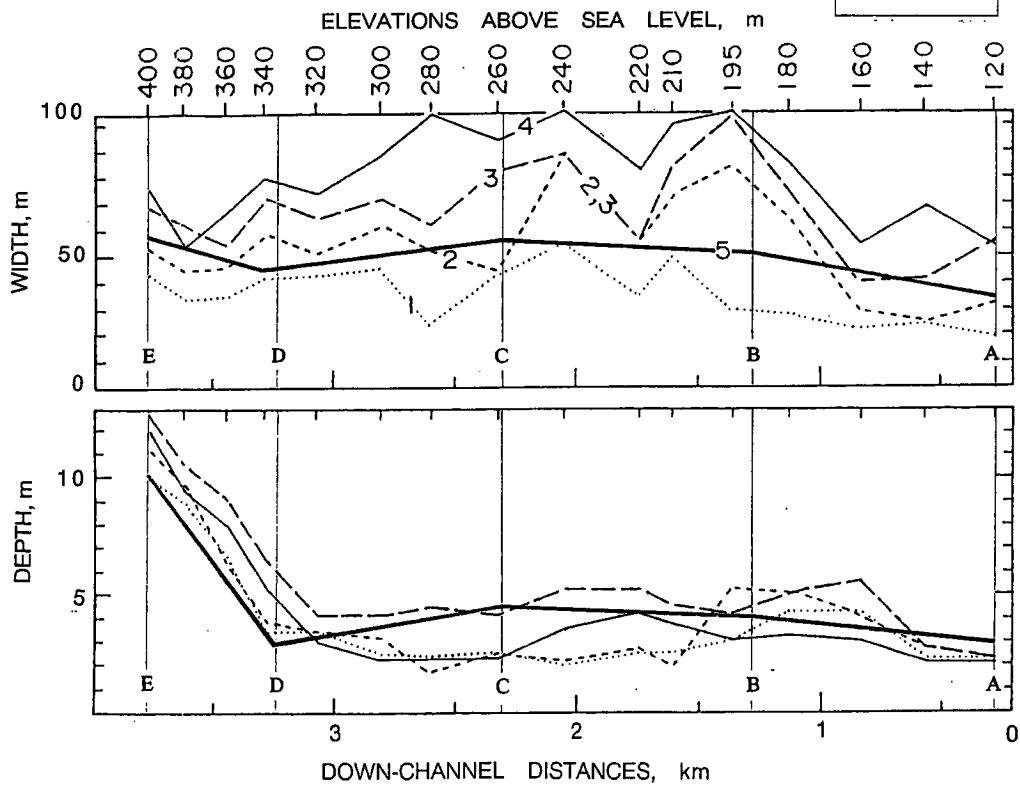
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Figure XV 2.5

Longitudinal Profile of the Pawa-Burabod River
(A-E are shown in Figure XV 2.6)



- 1 : 1985
- 2 : 1986
- 3 : 1988
- 4 : 1989
- 5 : 1999



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Figure XV 2.6
Fluctuation of River Channel Bed of the Pawa-Burabod River

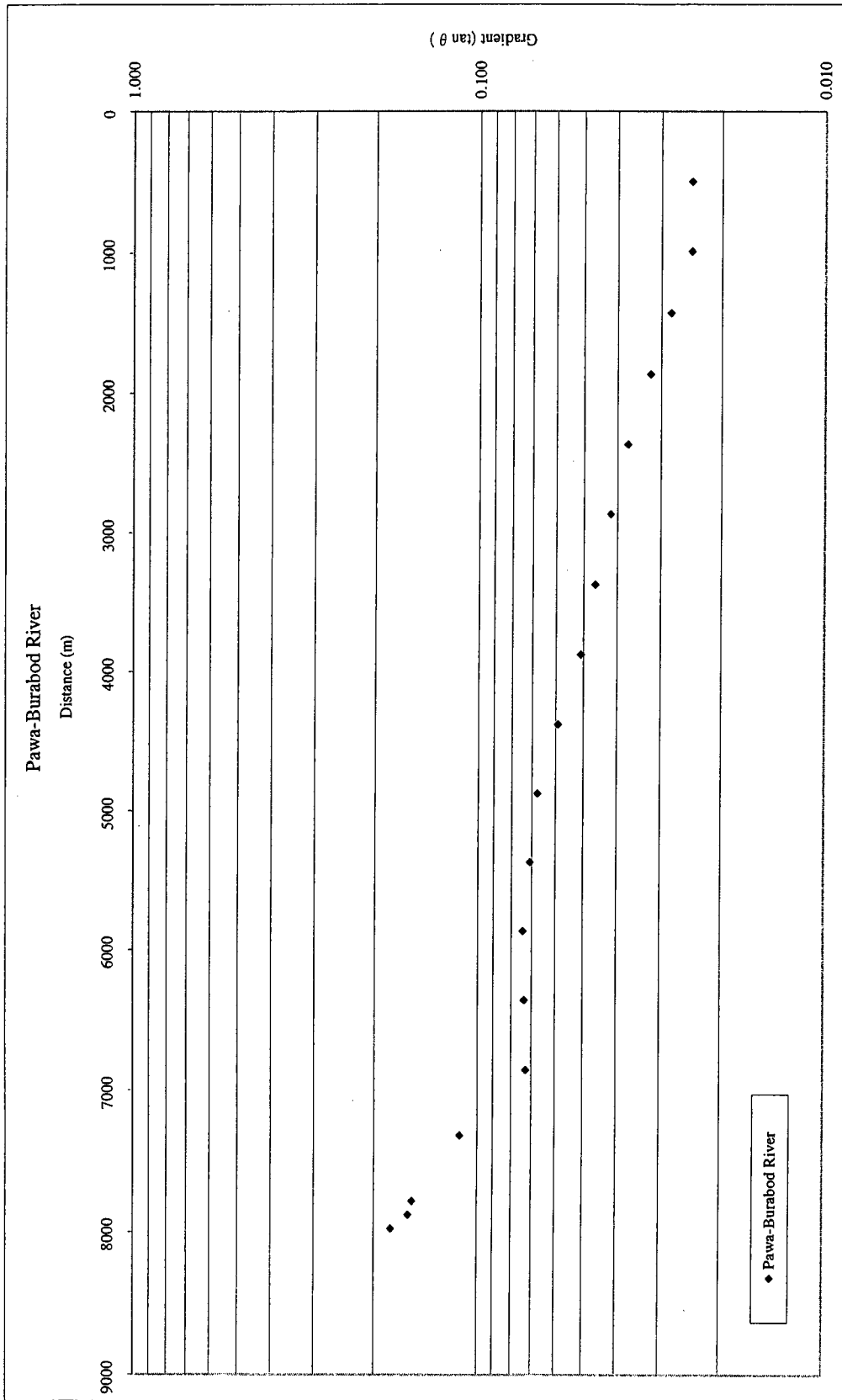


Figure XV 2.7
Relationship of the Distance and River Bed Gradient

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