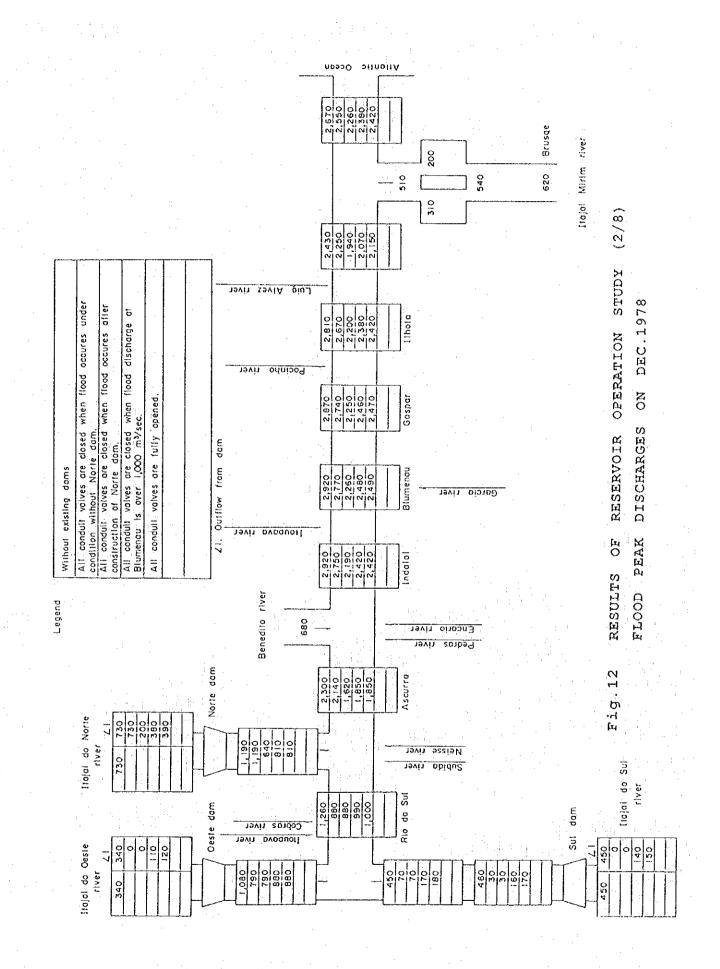


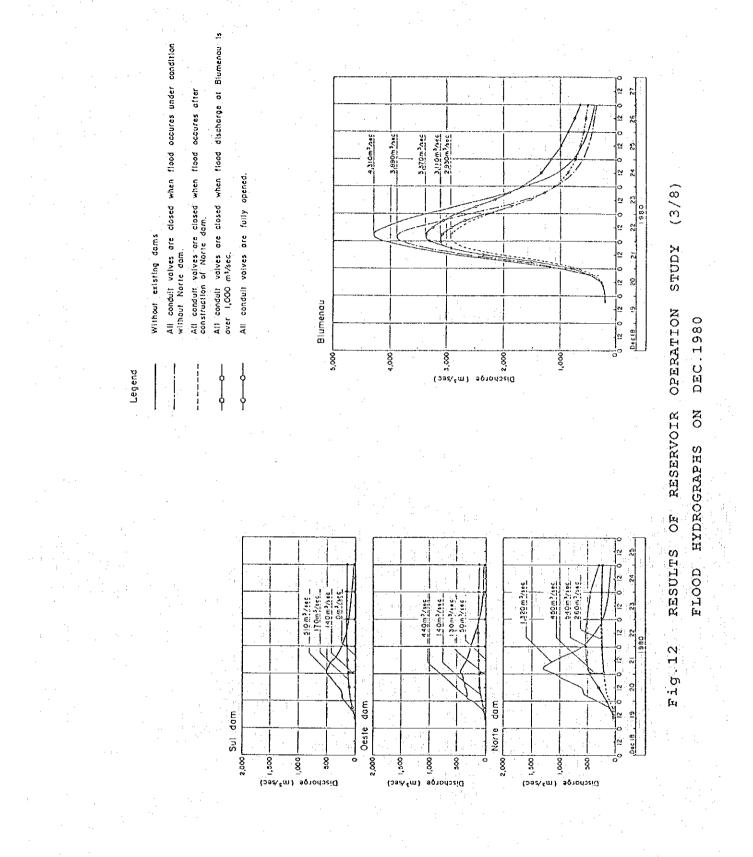
- 76 -

.

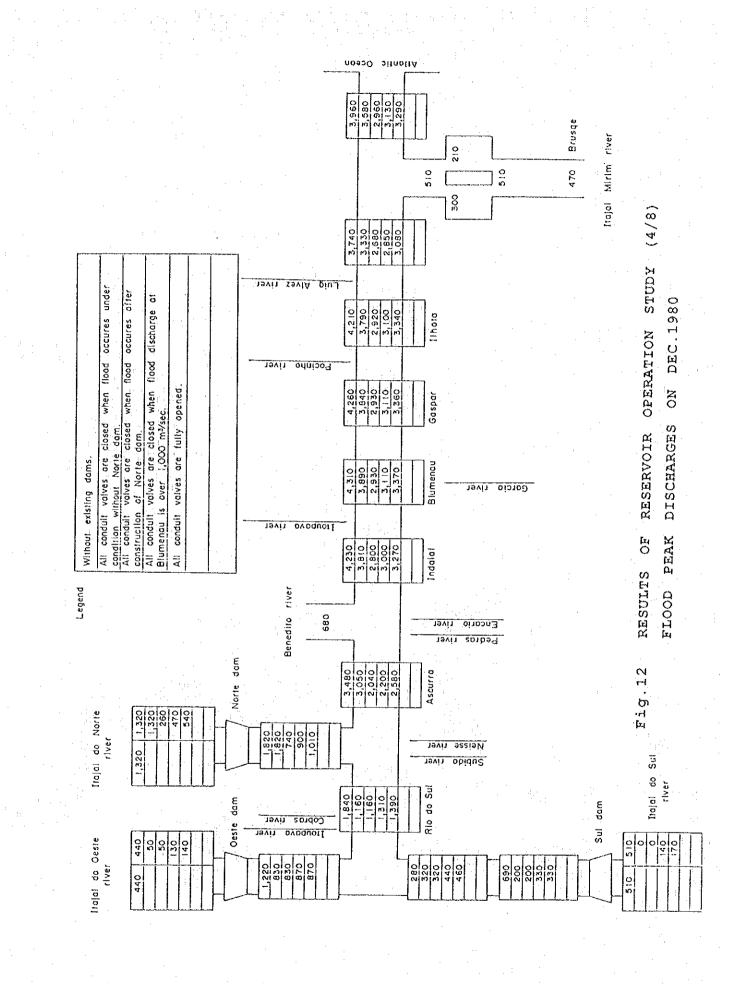


- 77 -

. .

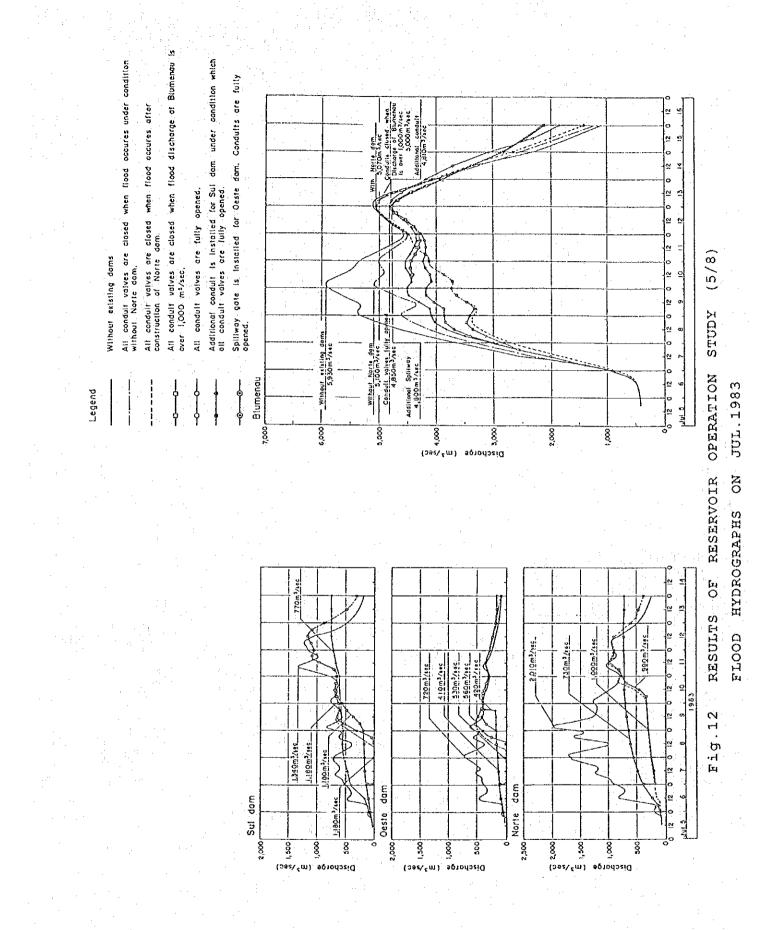


78 -

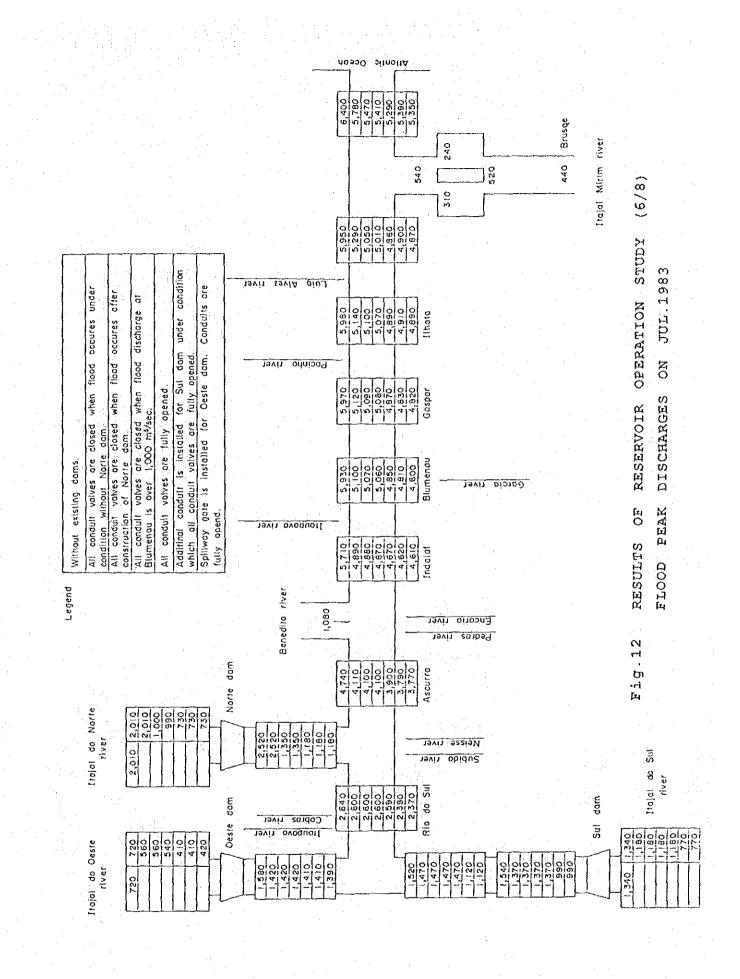


- 79 --

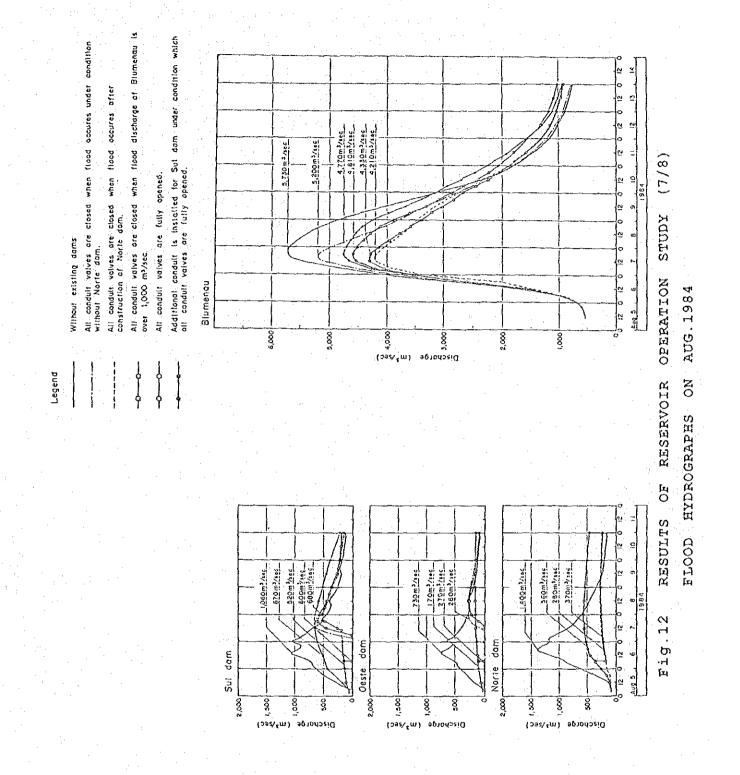
19 ~



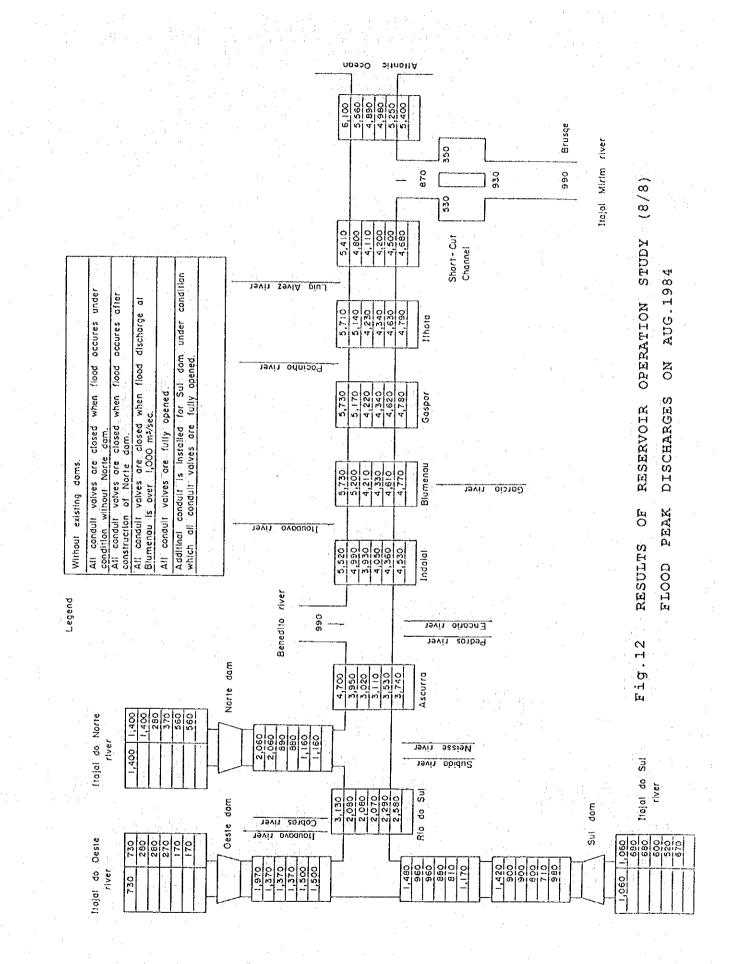
.



81 -



- 82 -



- 83 -

:

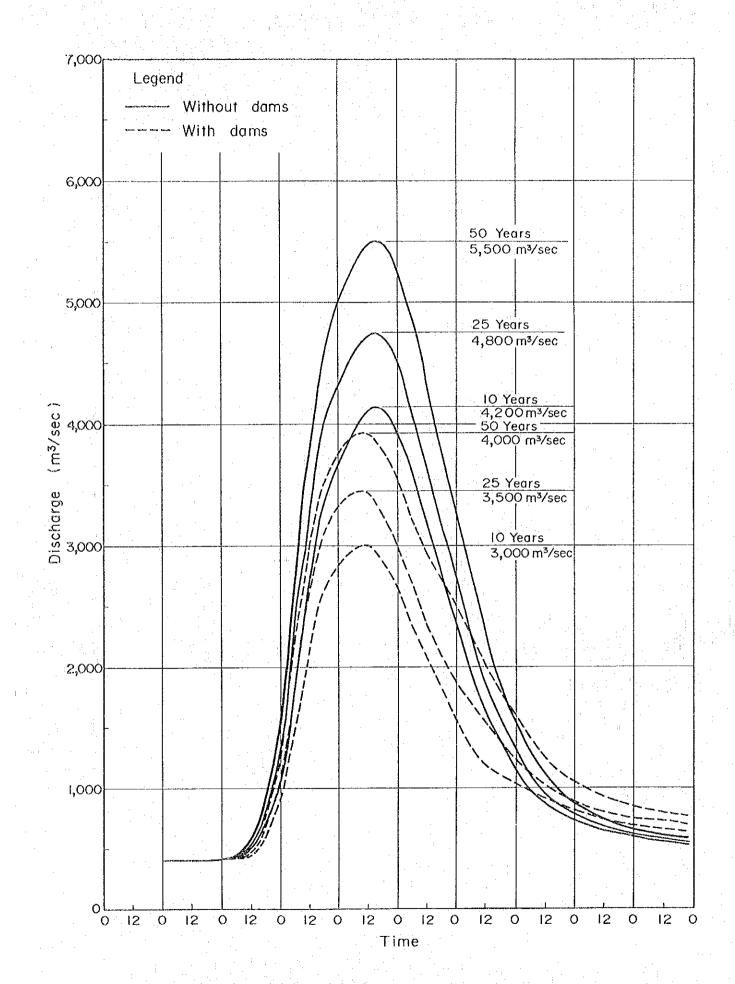
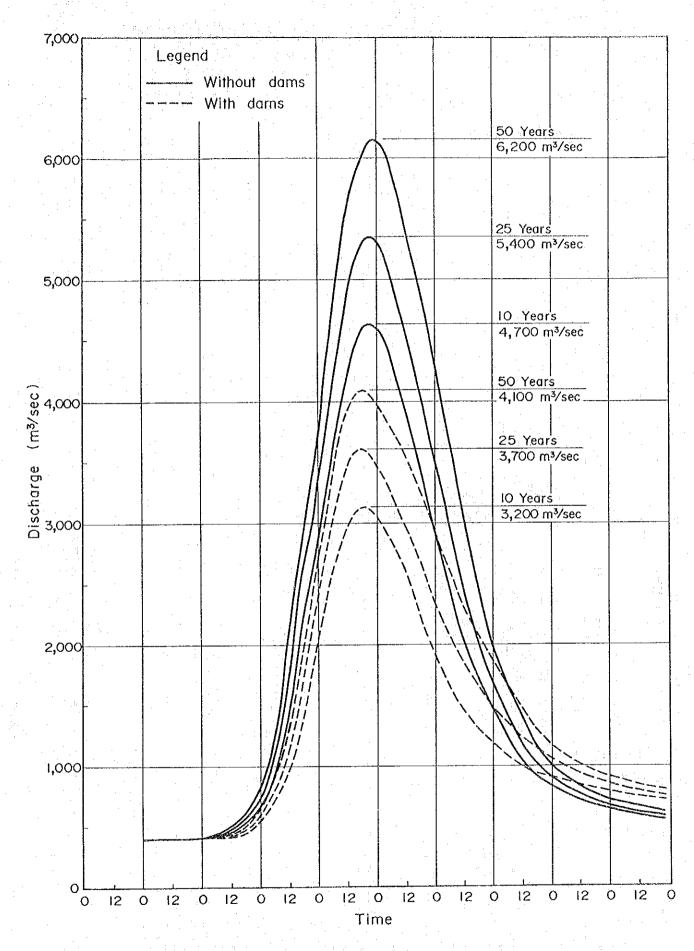
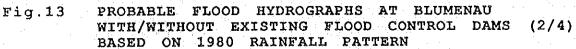


Fig.13 PROBABLE FLOOD HYDROGRAPHS AT BLUMENAU WITH/WITHOUT EXISTING FLOOD CONTROL DAMS (1/4) BASED ON 1978 RAINFALL PATTERN





- 85 -

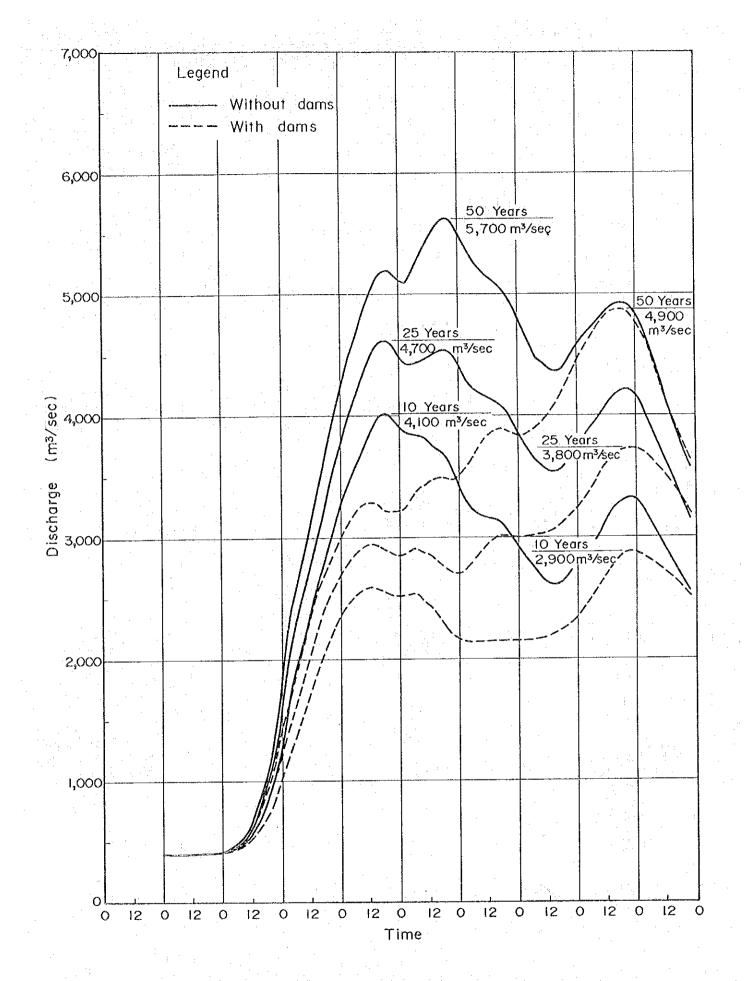
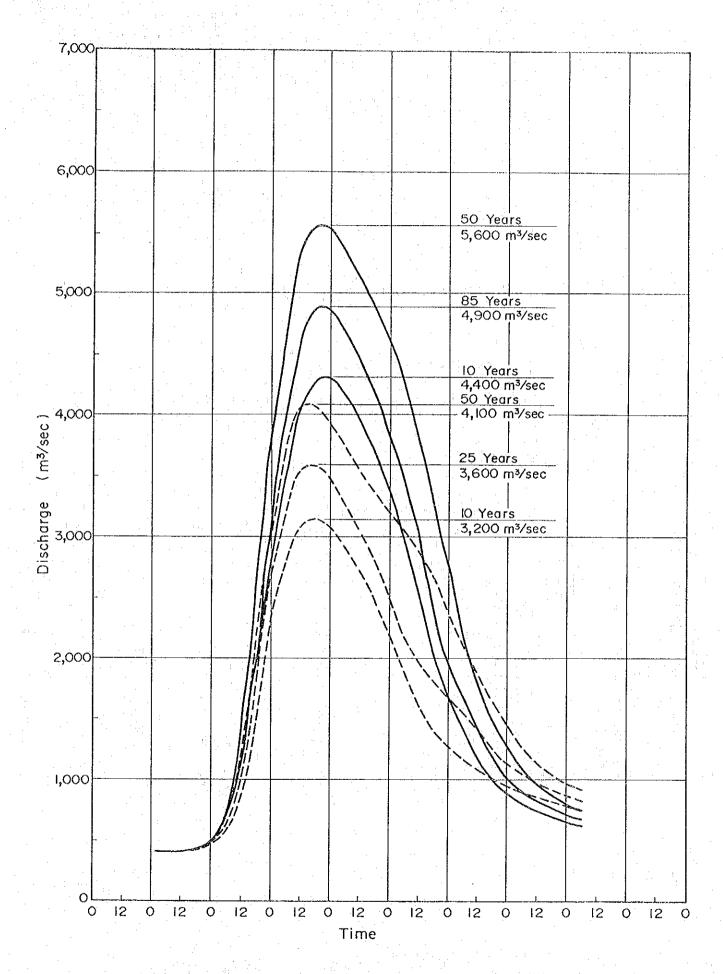
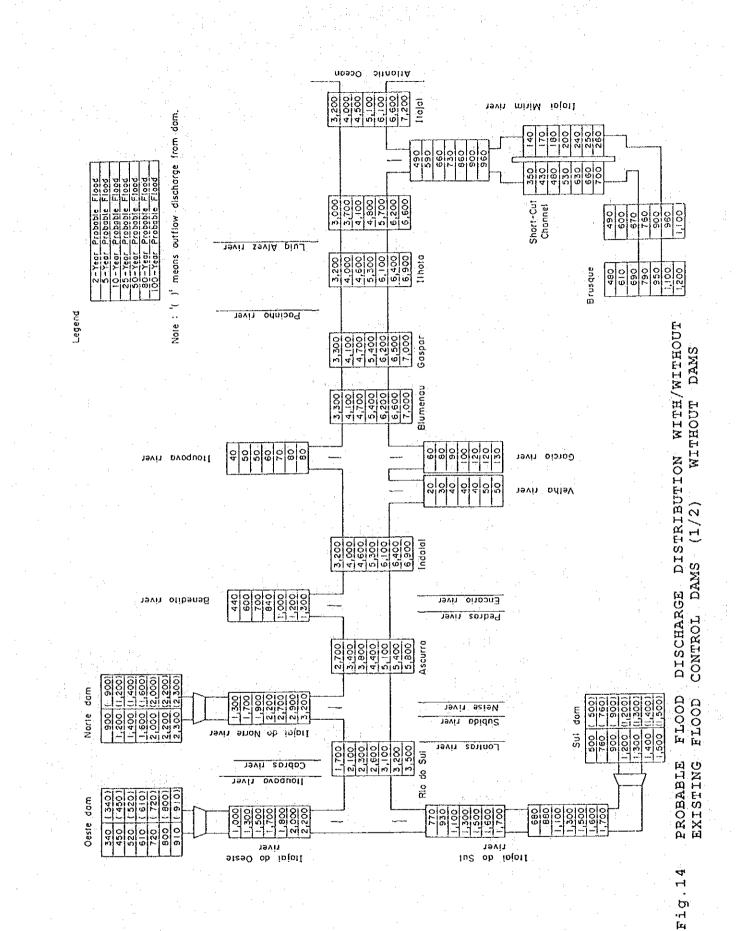


Fig.13 PROBABLE FLOOD HYDROGRAPHS AT BLUMENAU WITH/WITHOUT EXISTING FLOOD CONTROL DAMS (3/4) BASED ON 1983 RAINFALL PATTERN

- 86 -

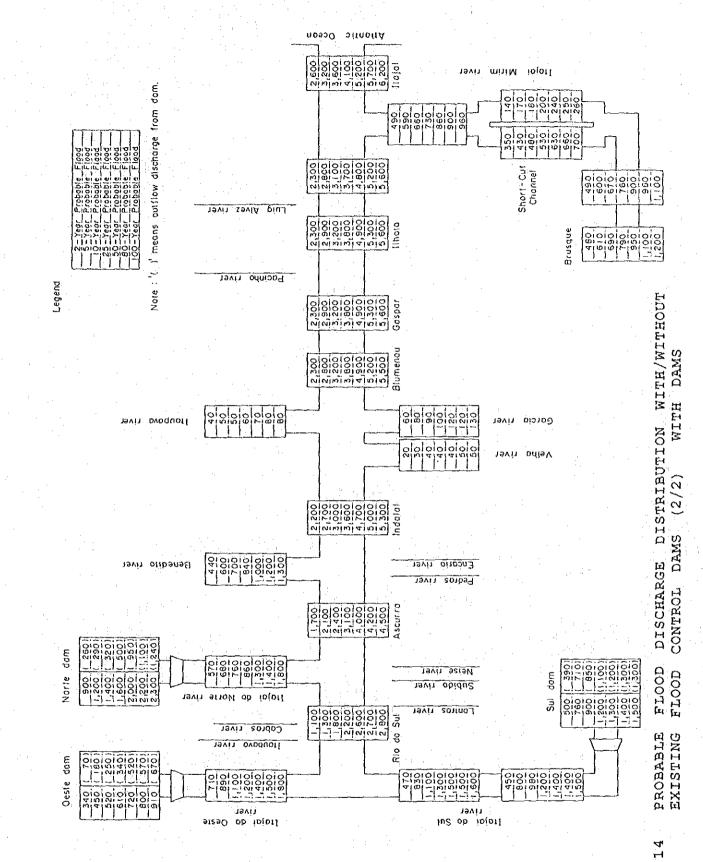






- 88 -

.



σ ત્ન Ē4

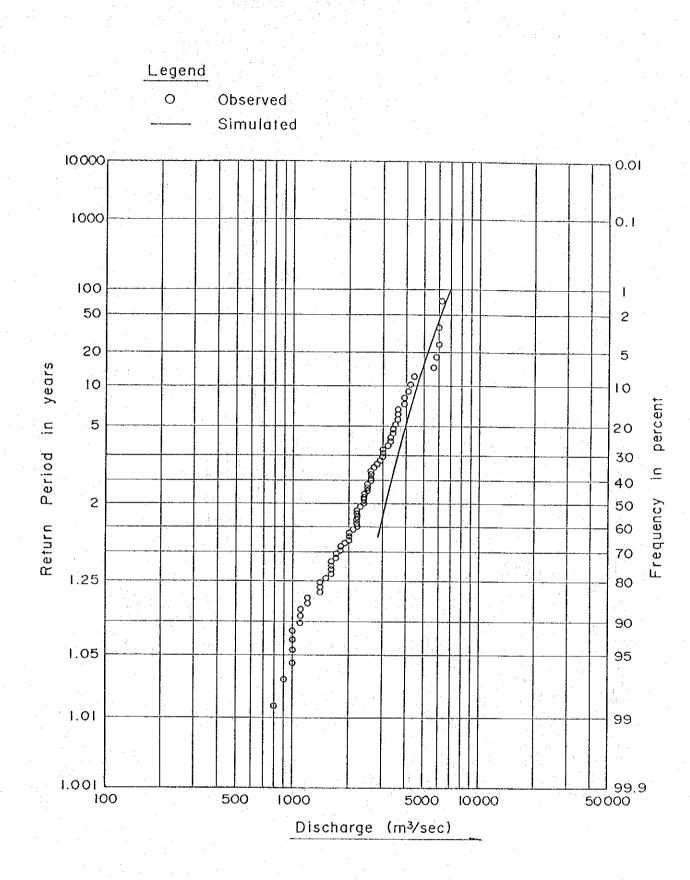
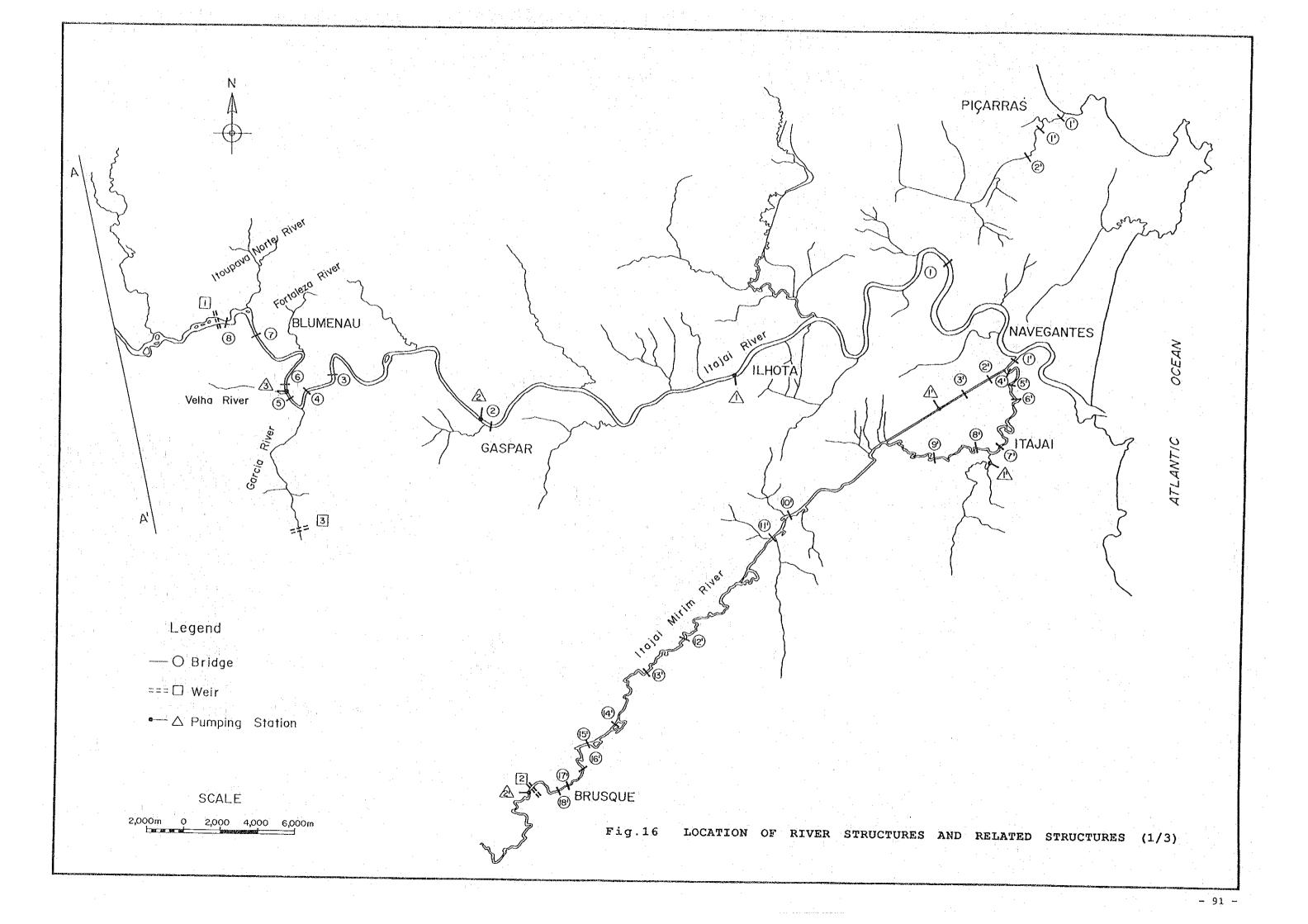
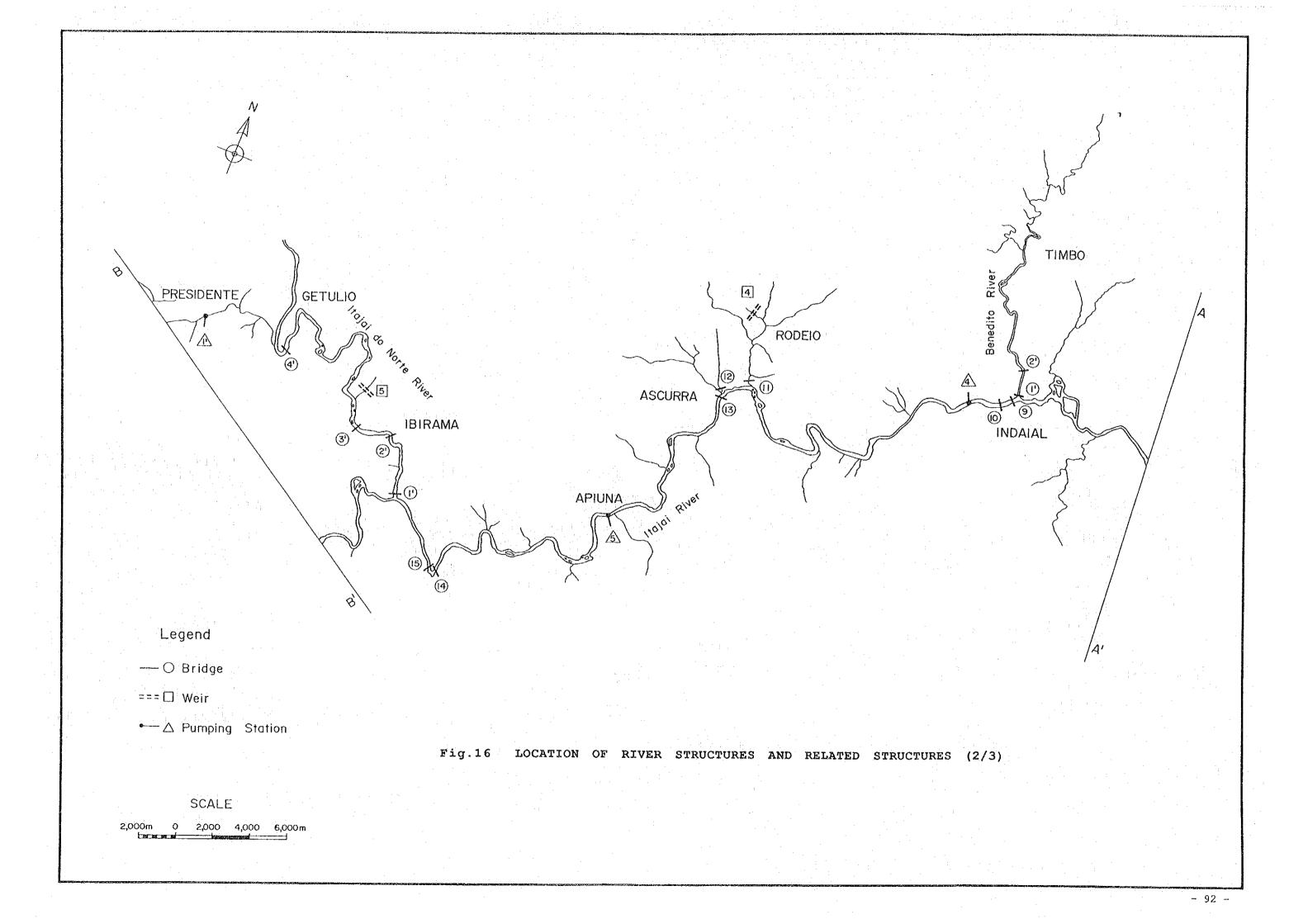
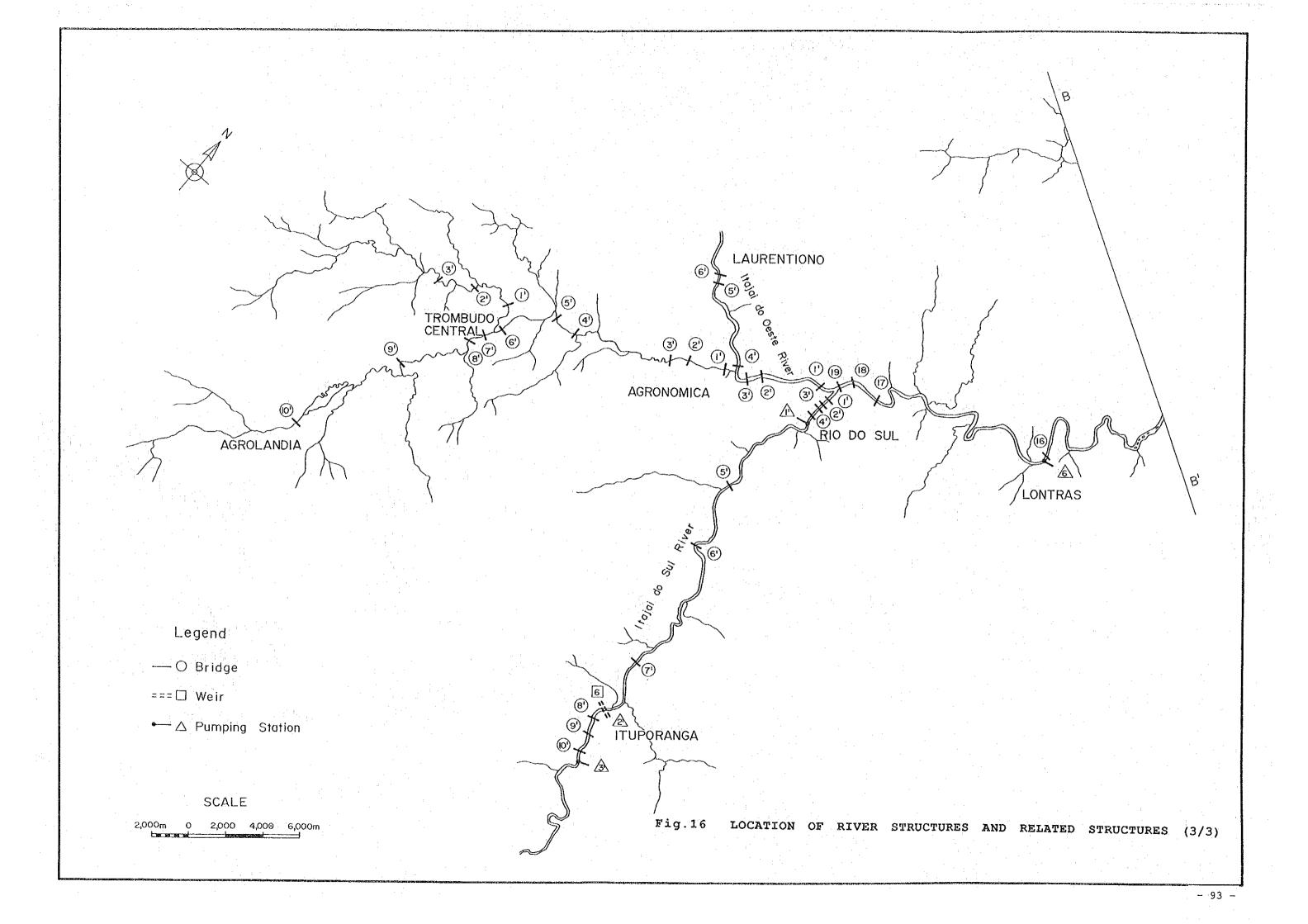


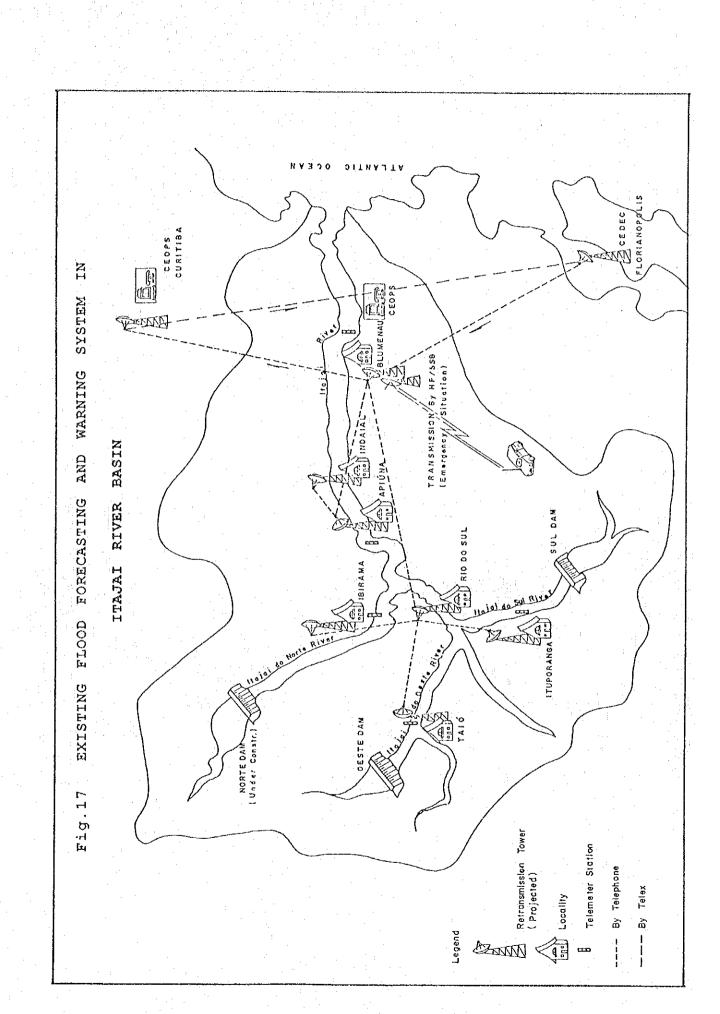
Fig.15 FREQUENCY CURVE OF FLOOD PEAK DISCHARGE AT BLUMENAU

90 -

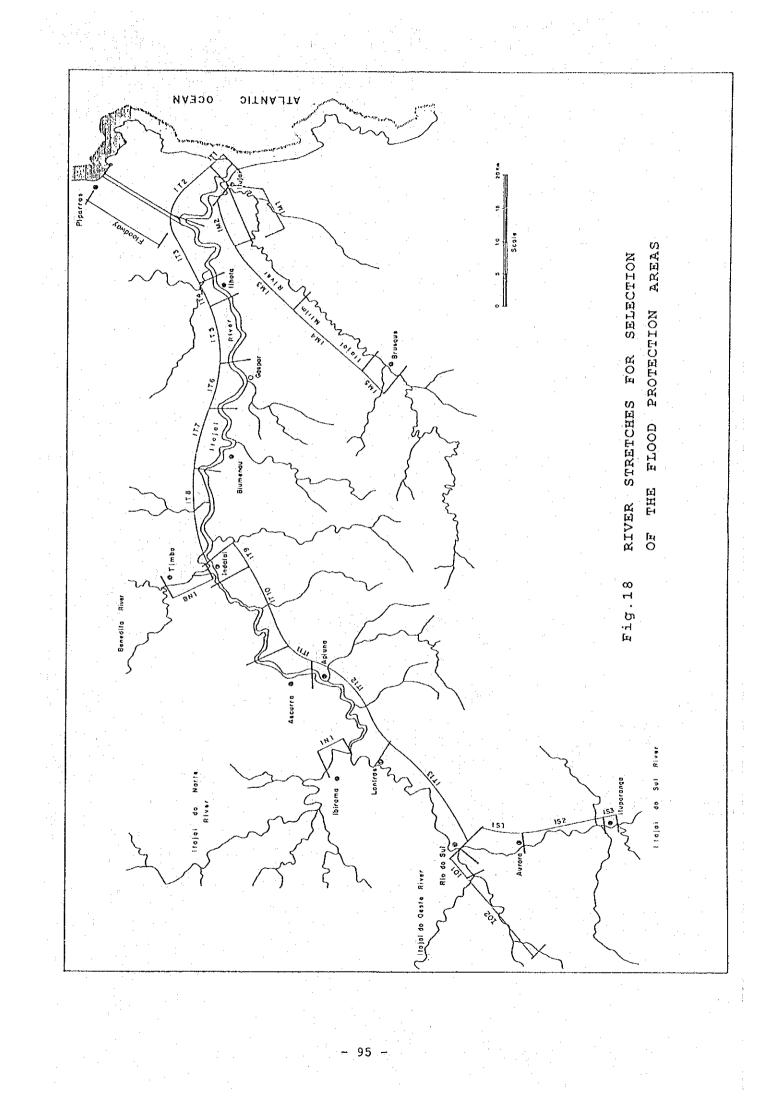


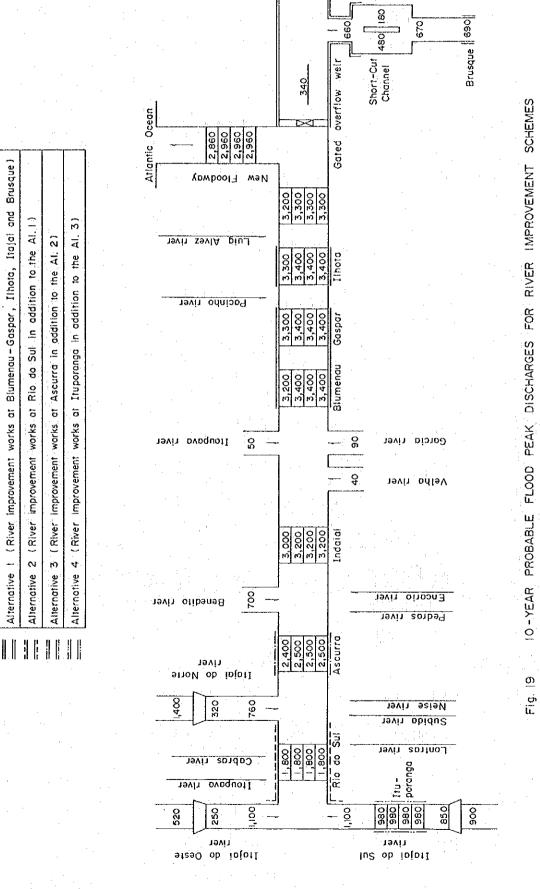






- 94 -





Atlantic Ocean

1,000

Itajai

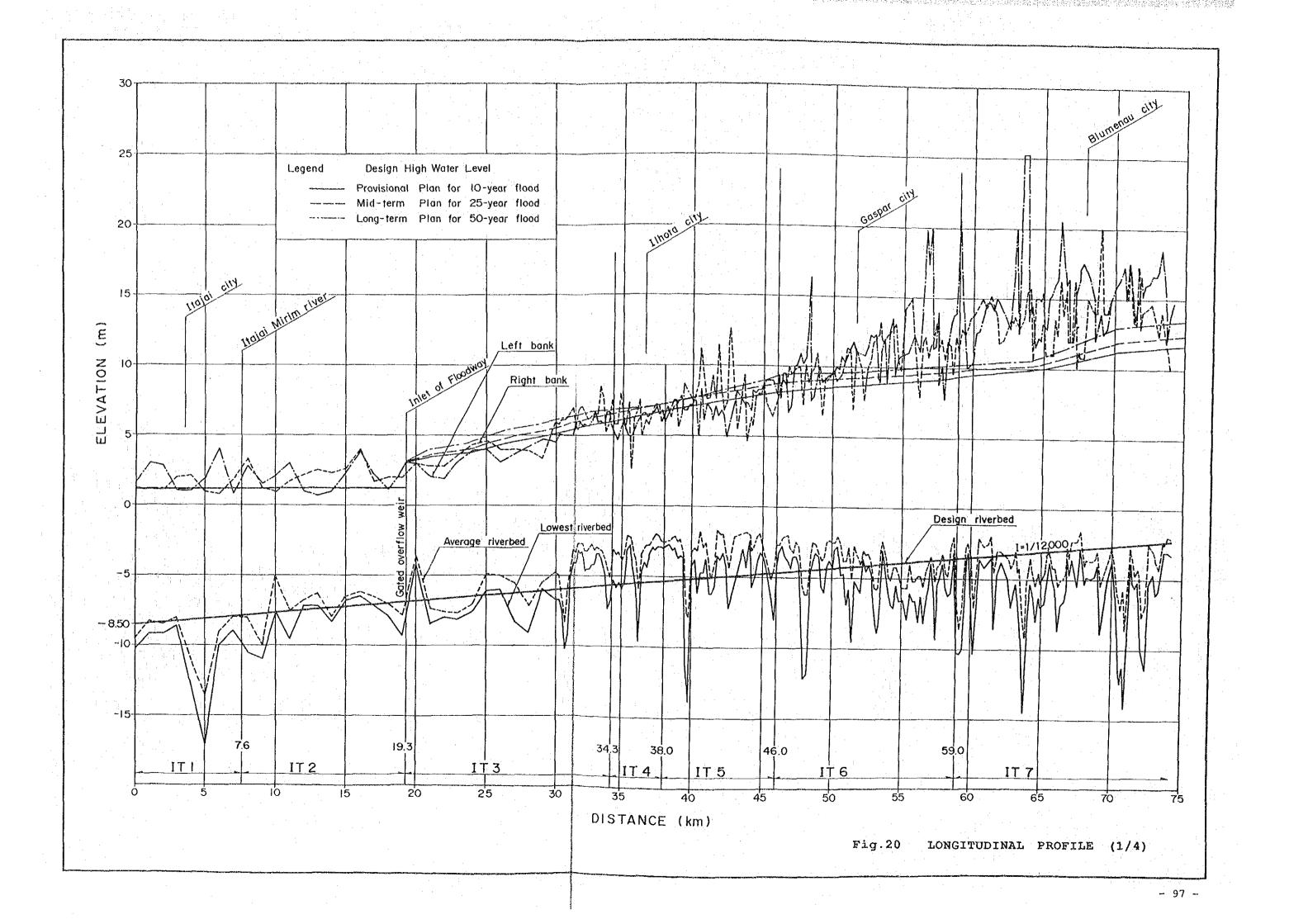
LIVEL

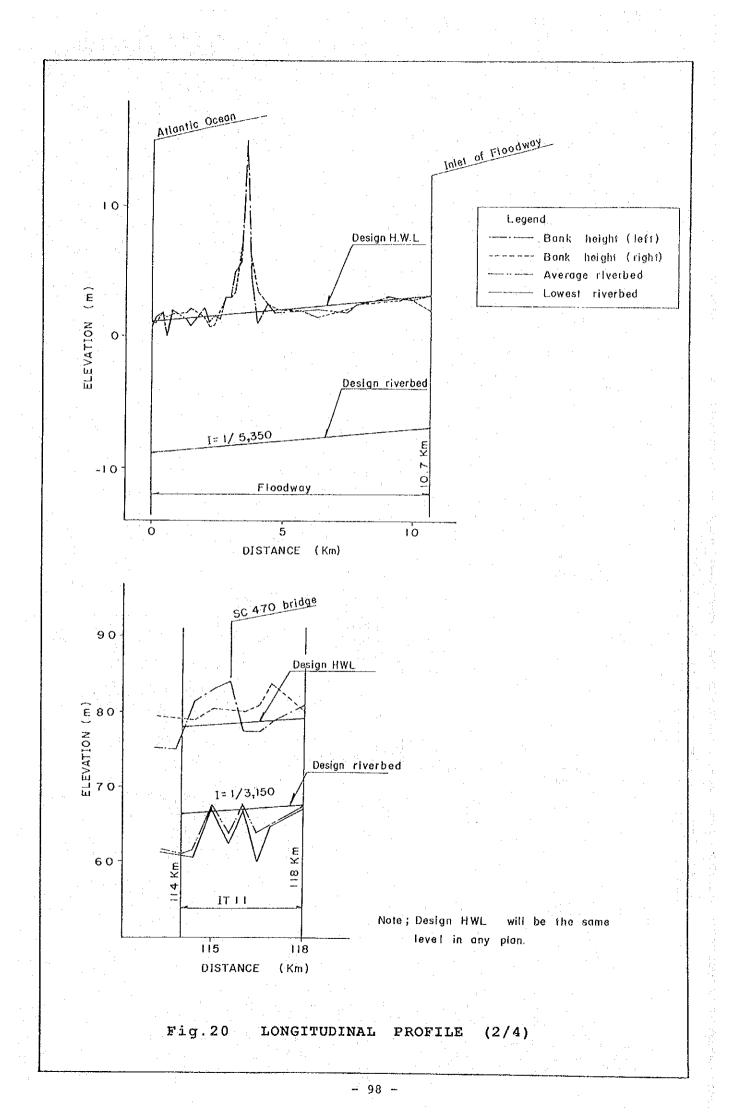
minim injott

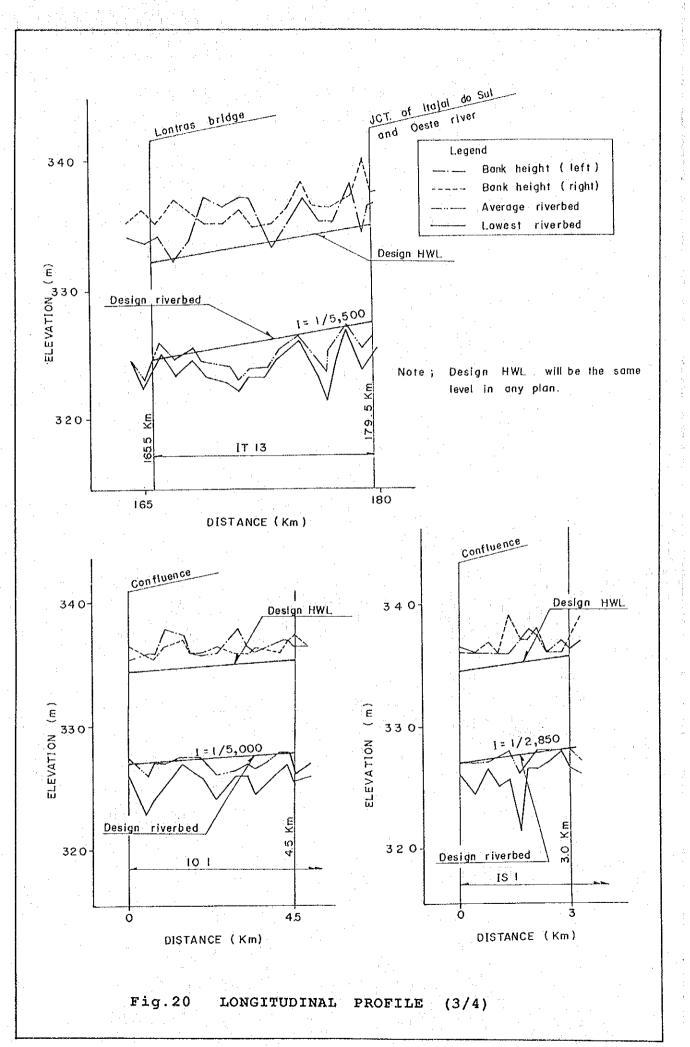
Legend

Brusque)

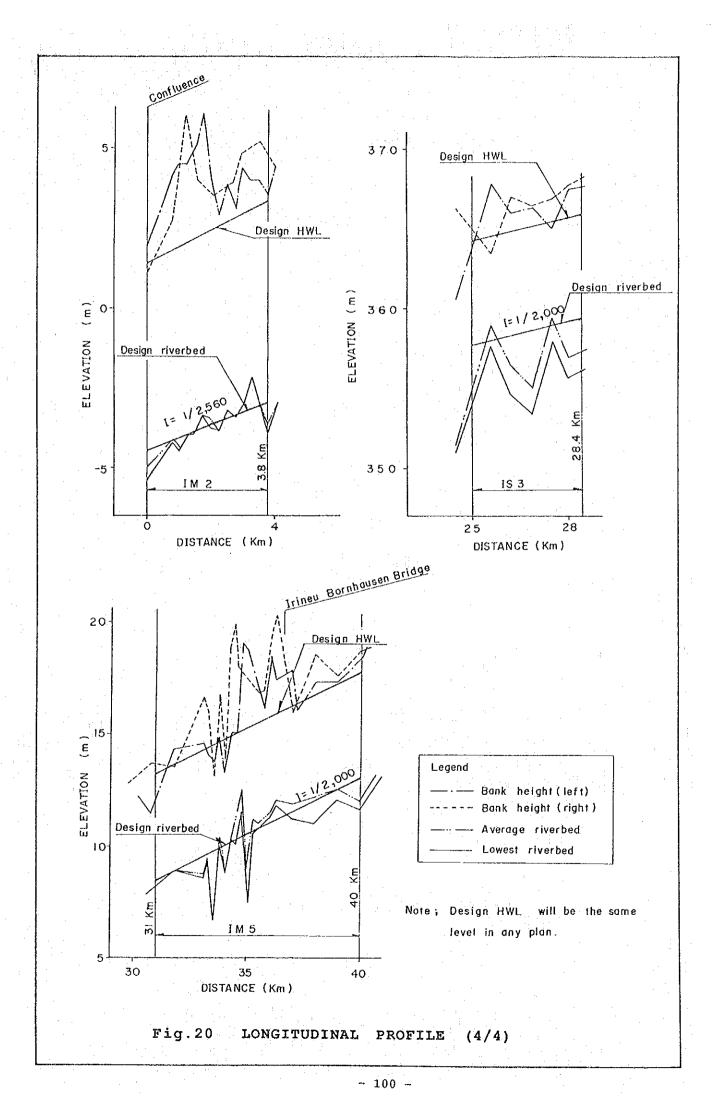
- 96 -

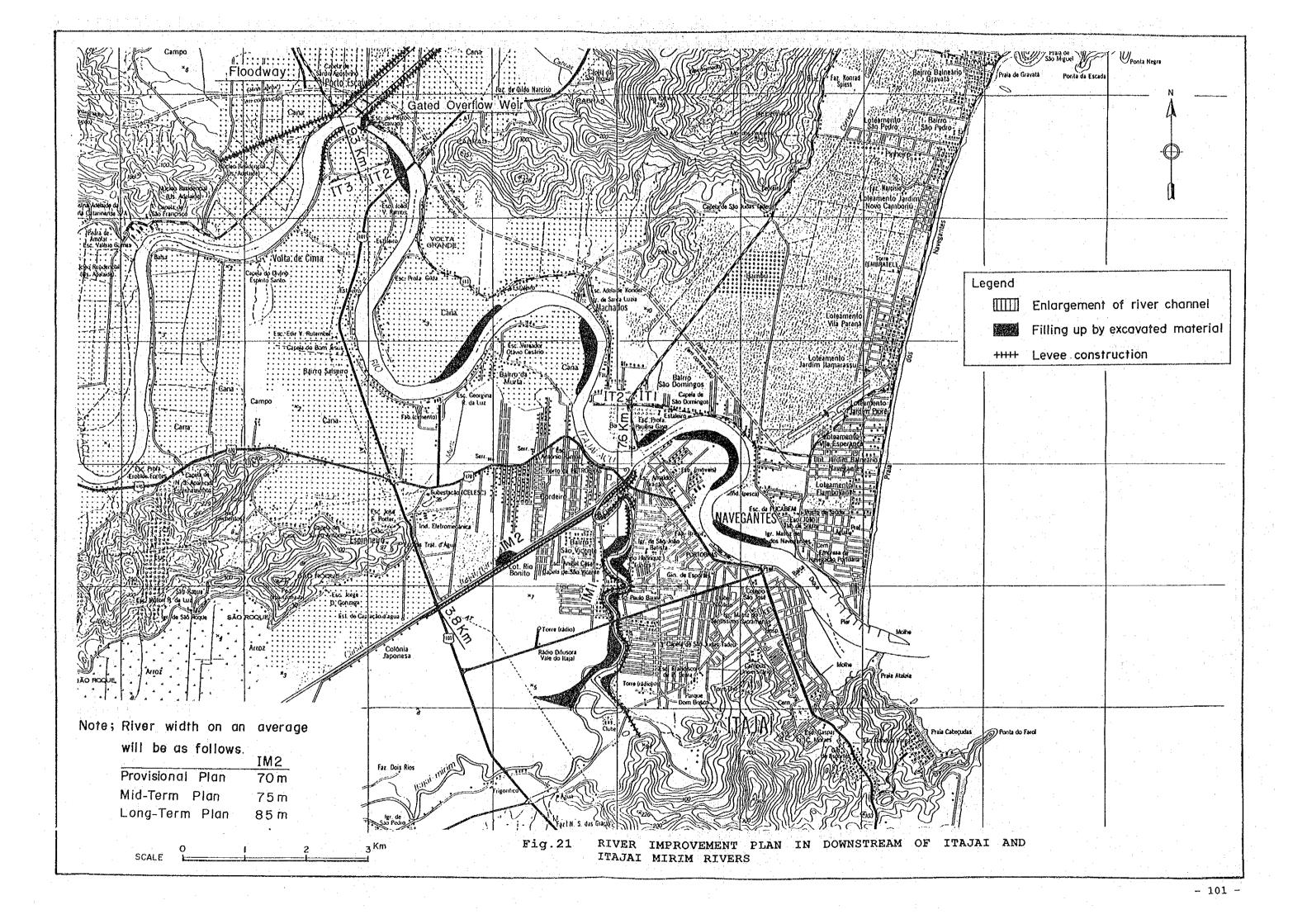


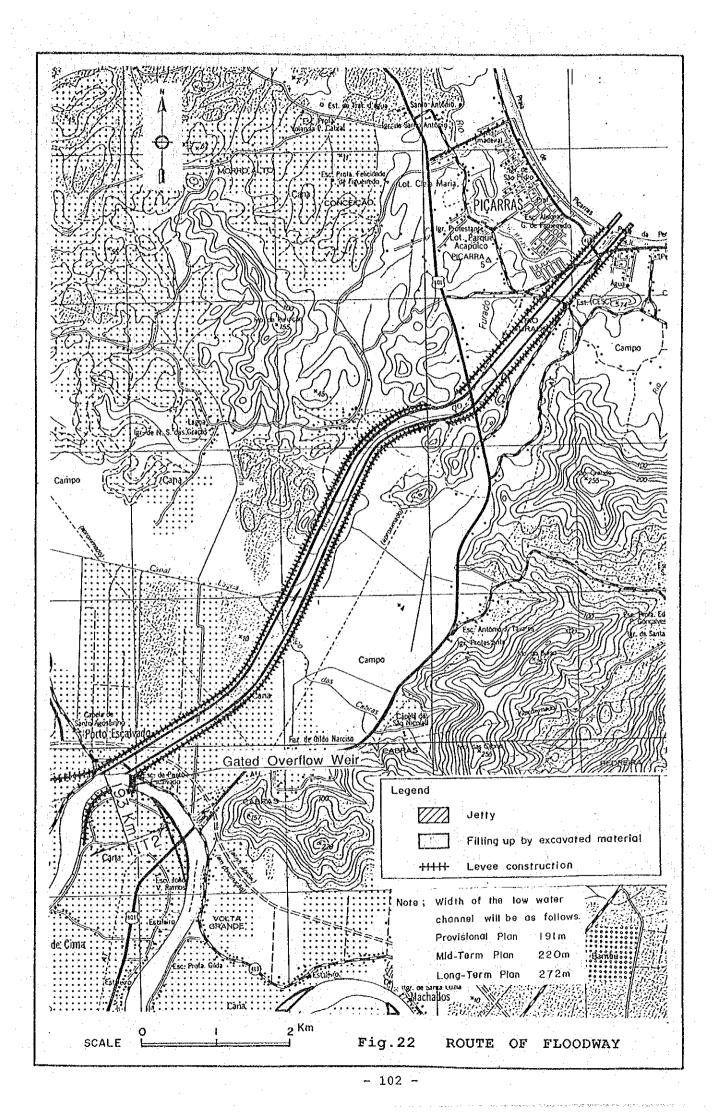


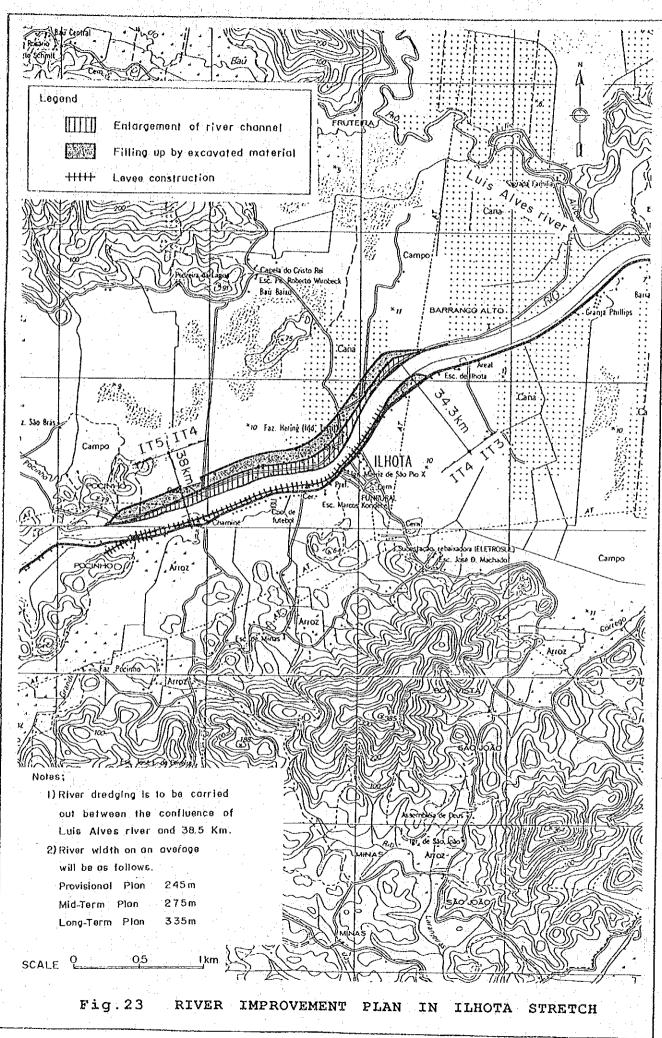


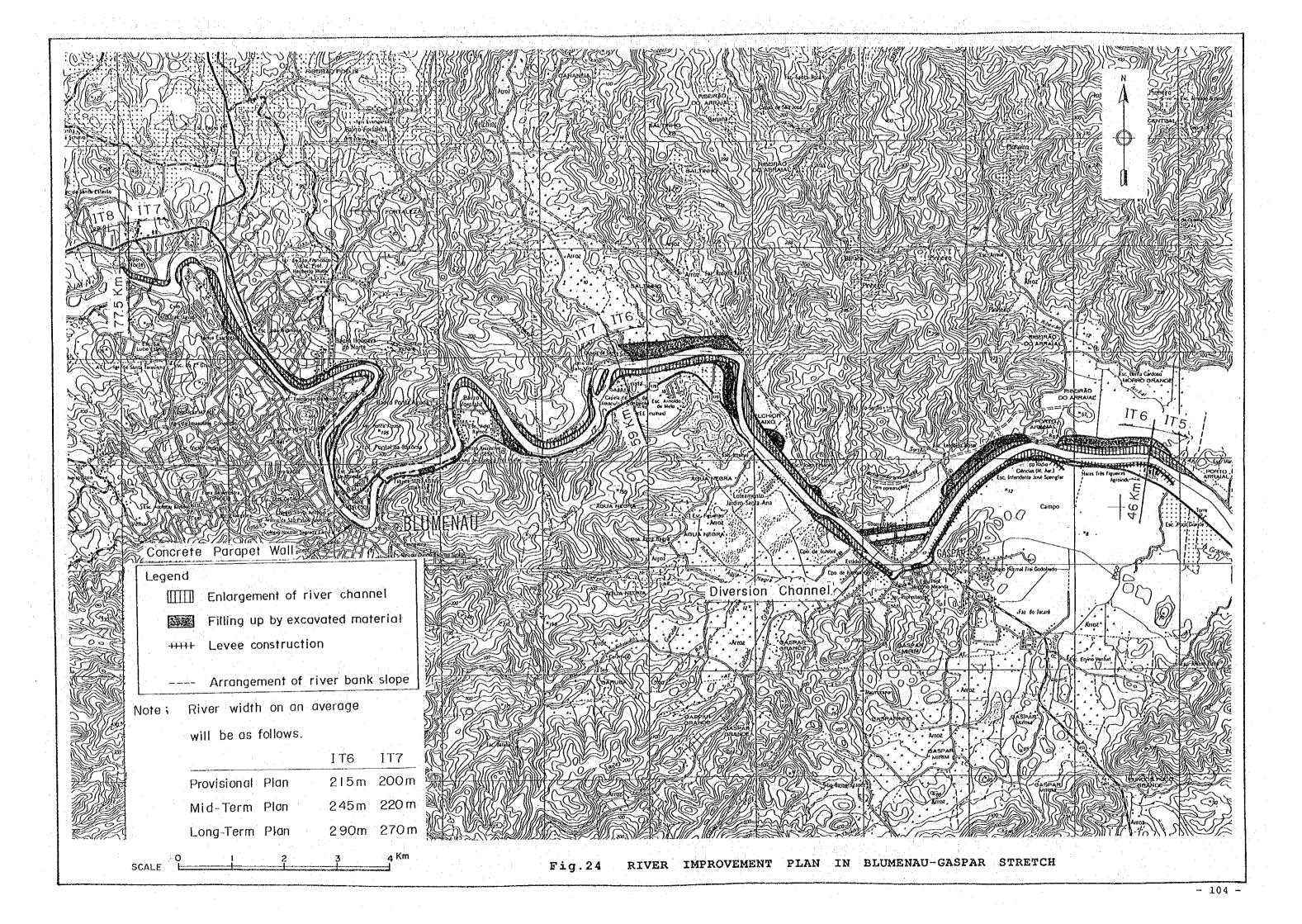
- 99 -

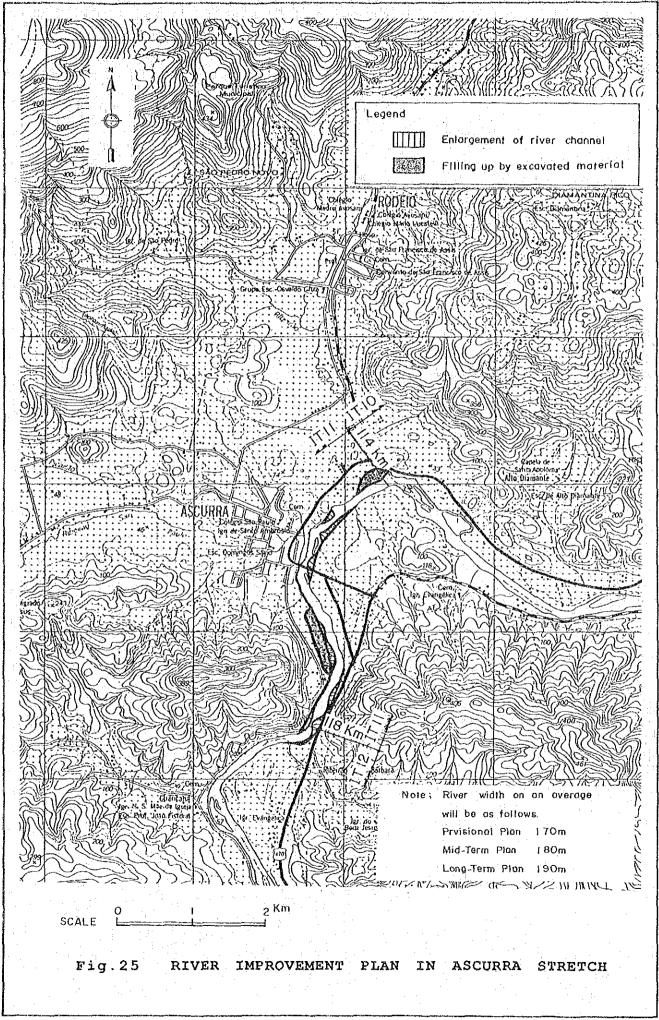


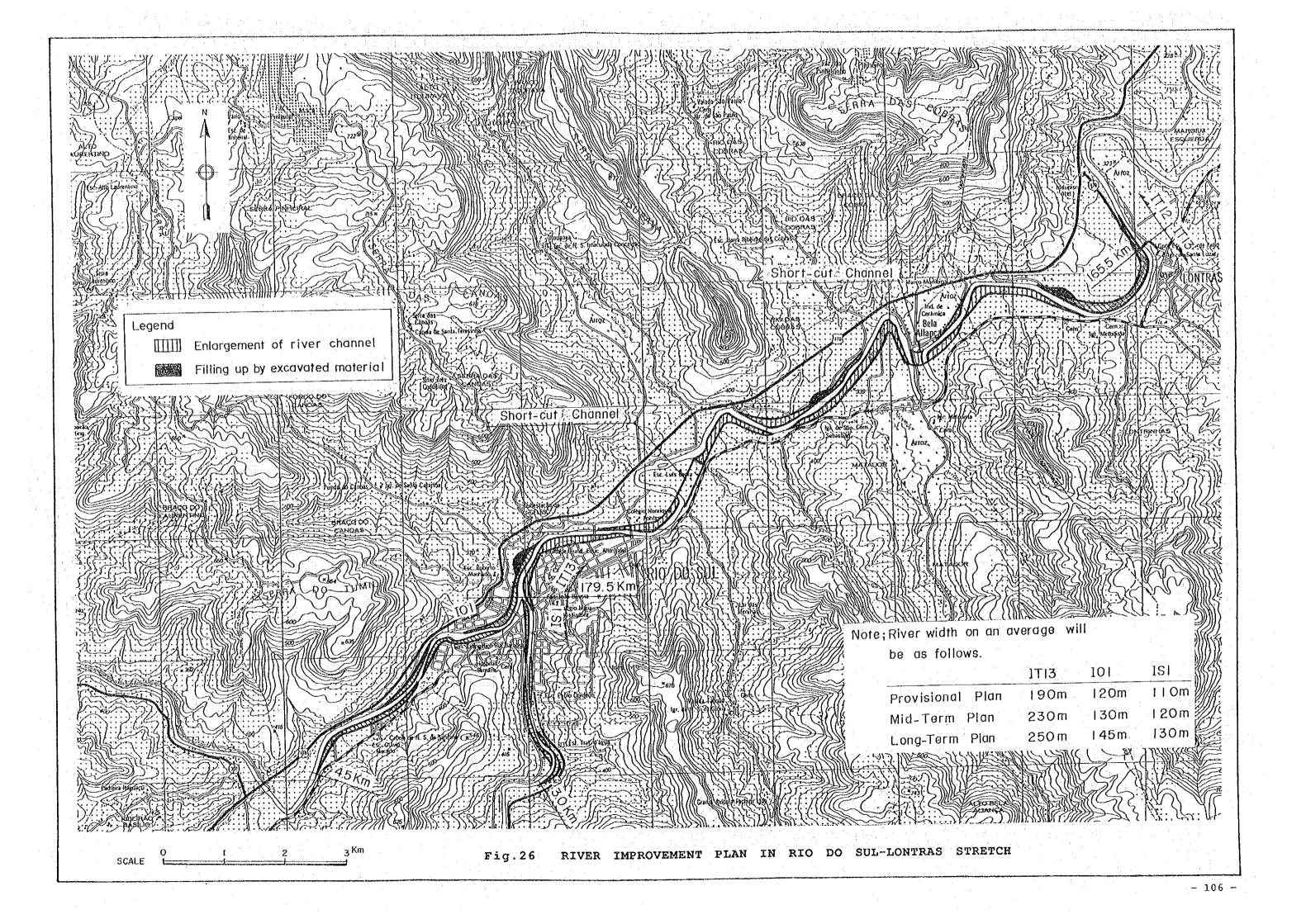


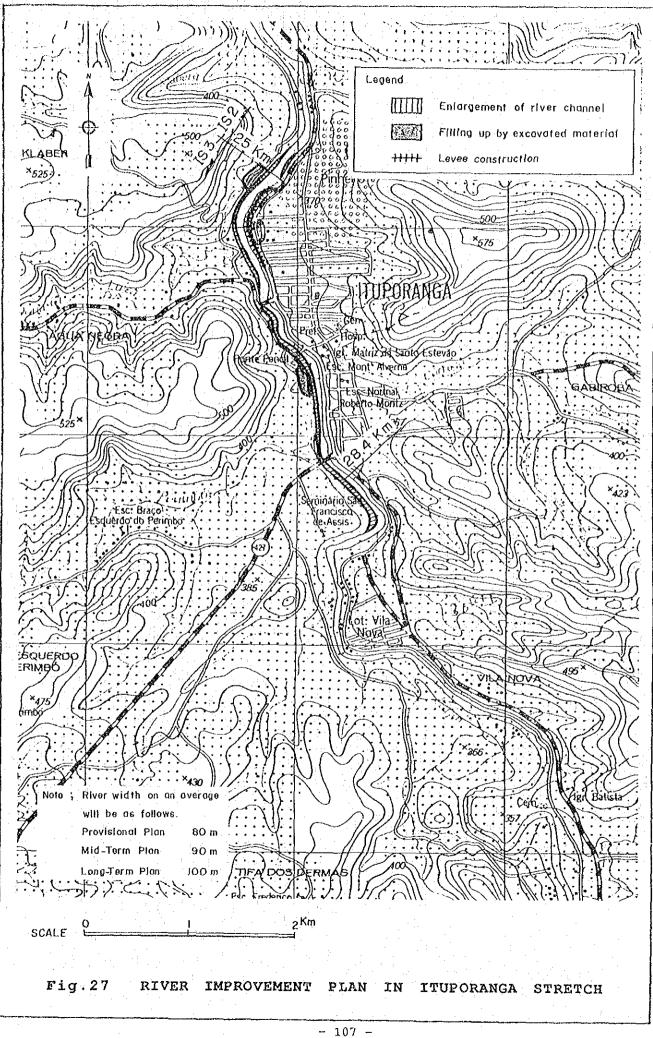


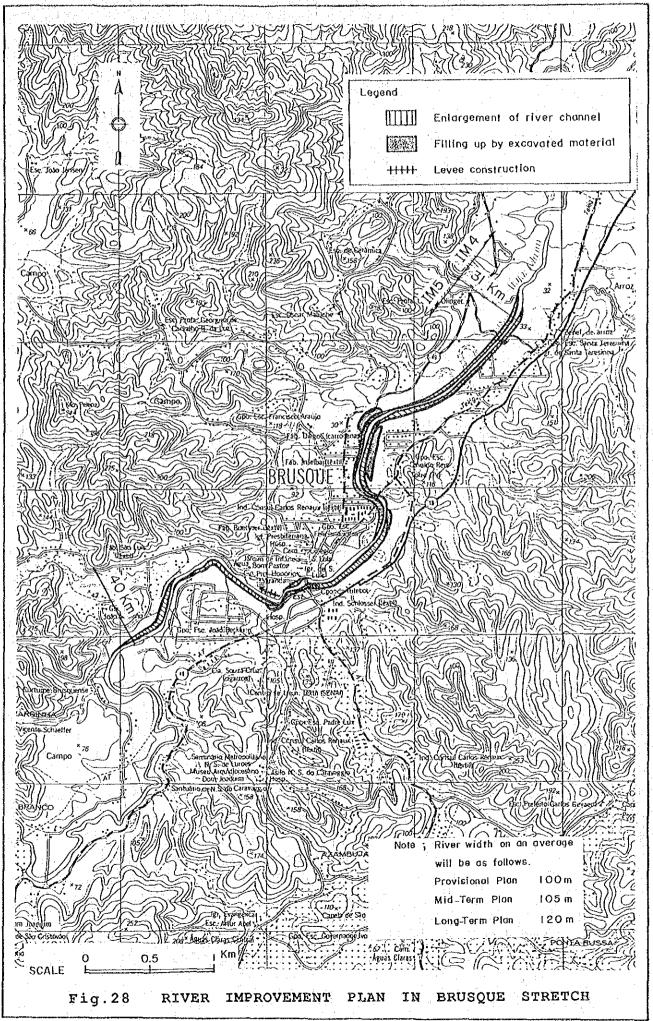


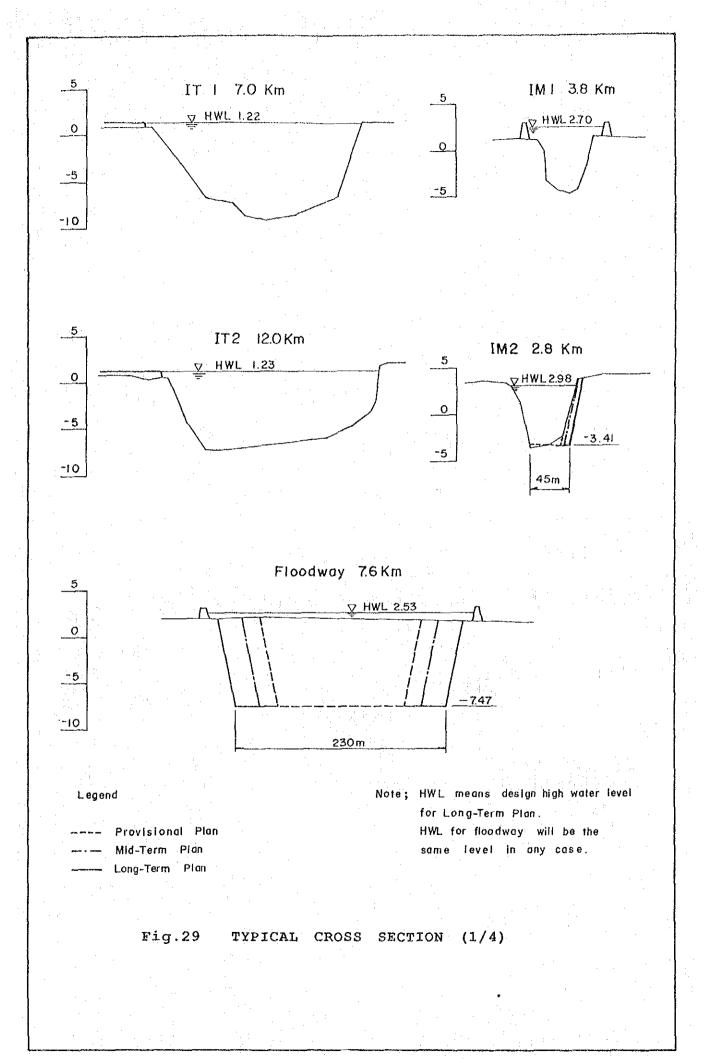


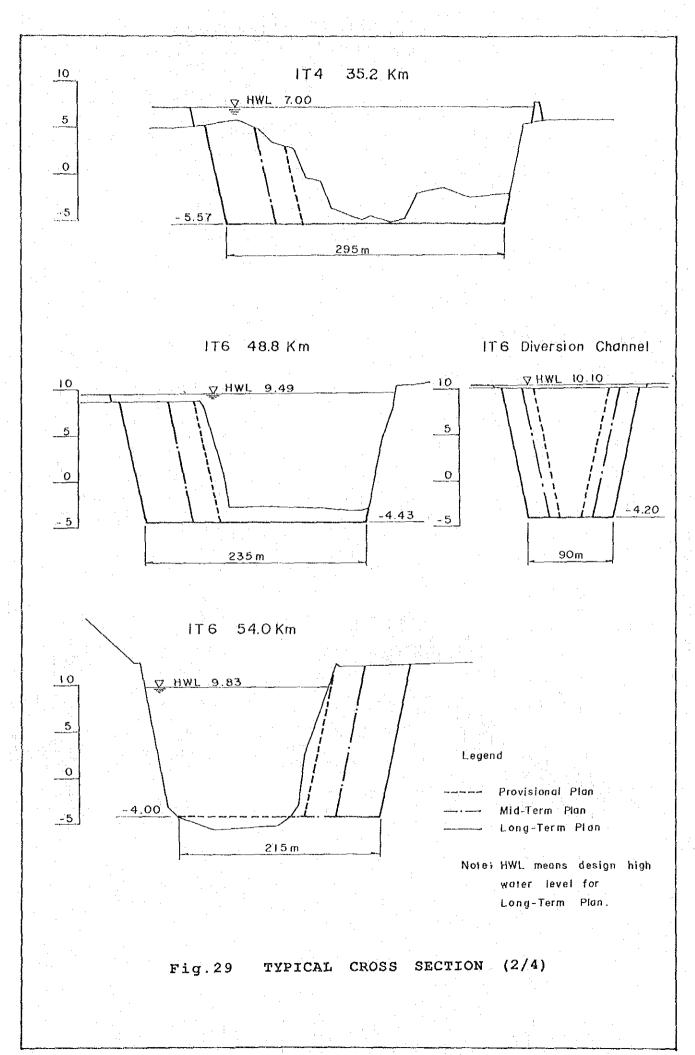




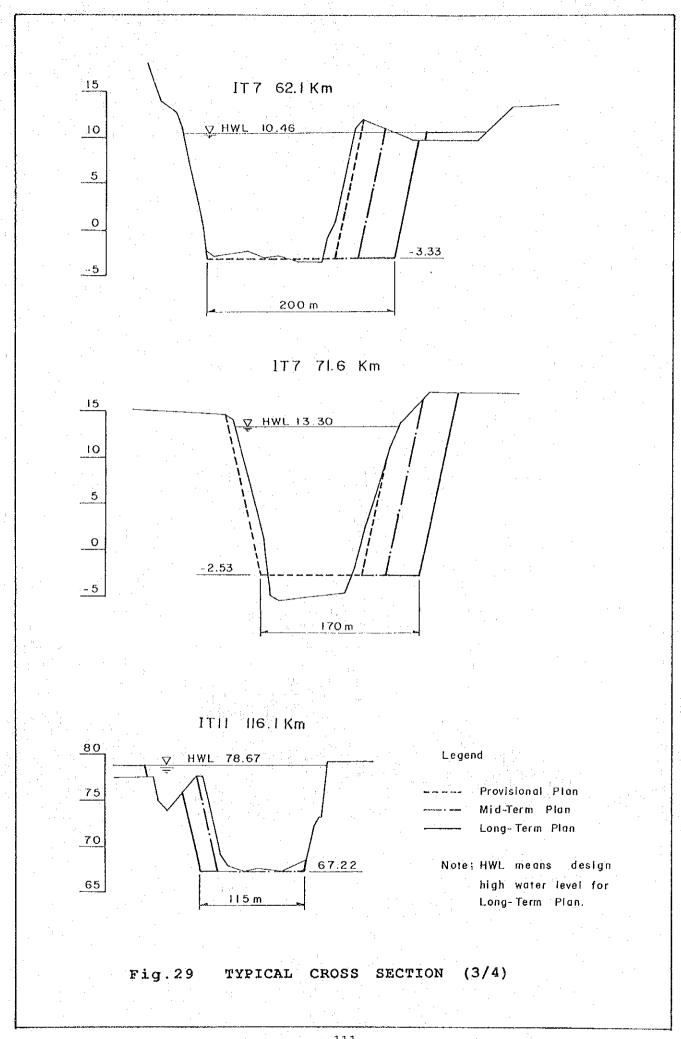




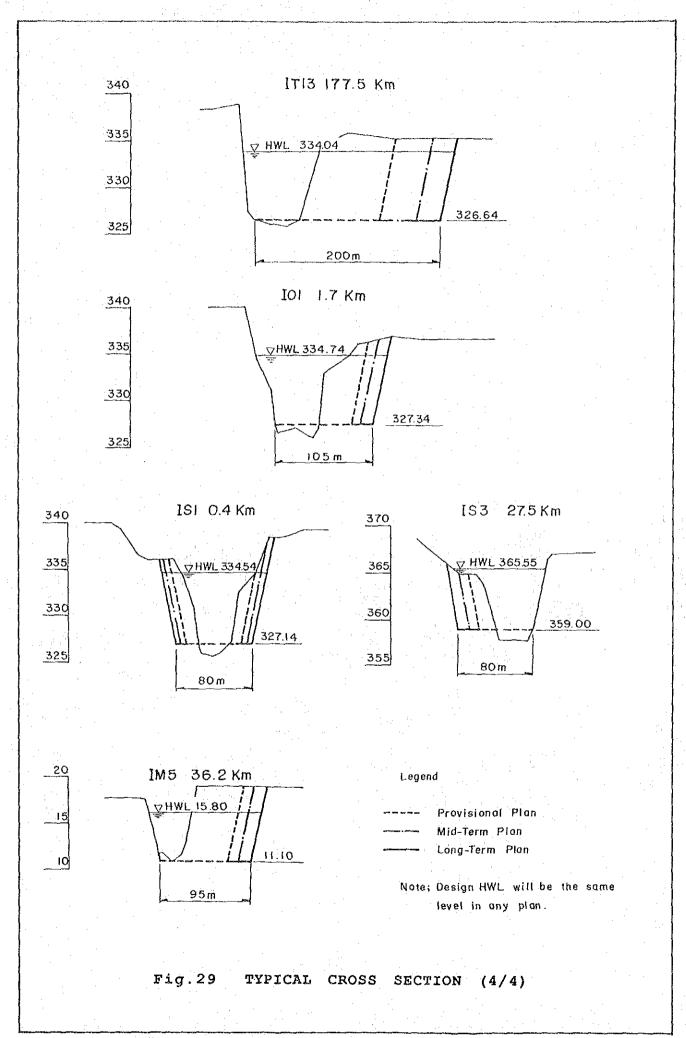




- 110 -

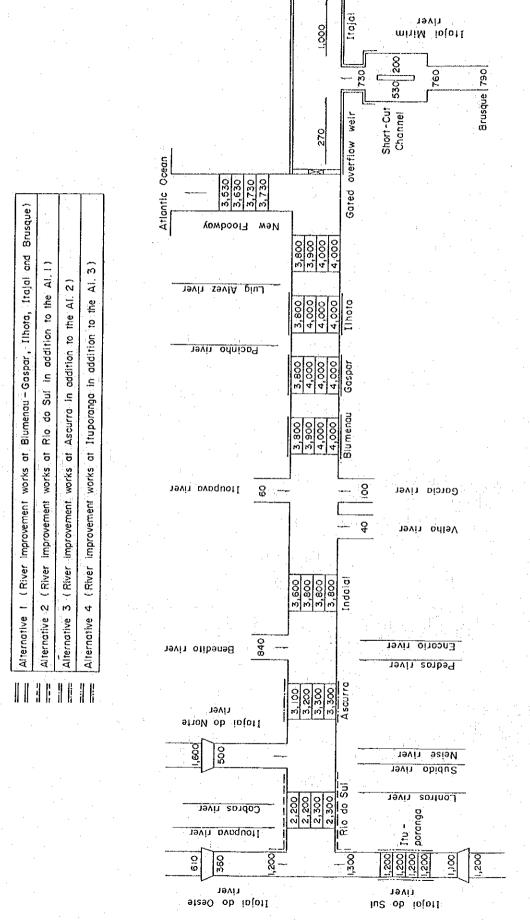


- 111 -



- 112 -

· · ·



Atlantic Ocean

RIVER IMPROVEMENT SCHEMES

FOR

PEAK DISCHARGES

FLOOD

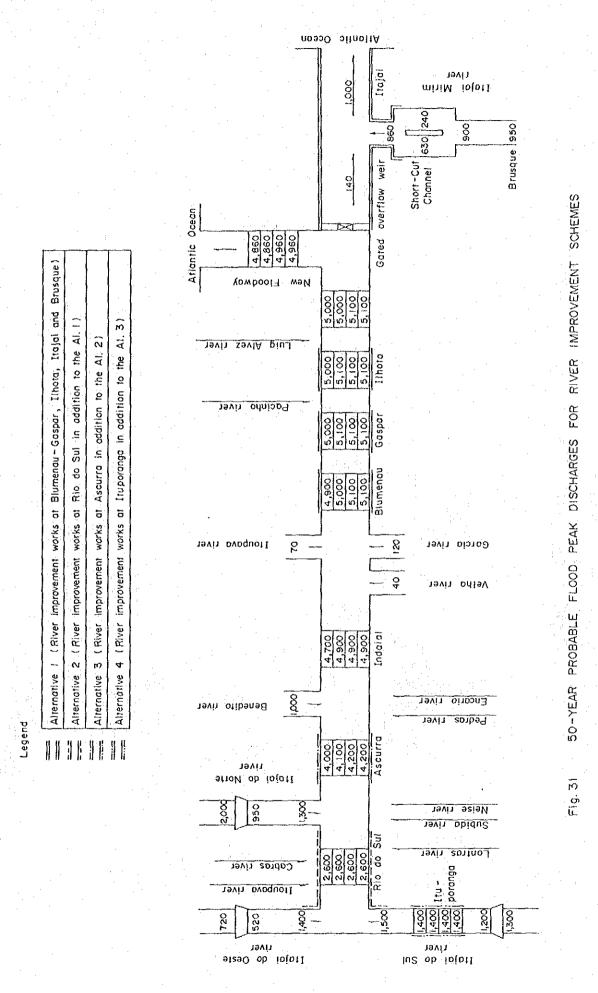
25-YEAR PROBABLE

Fig. 30

Legend

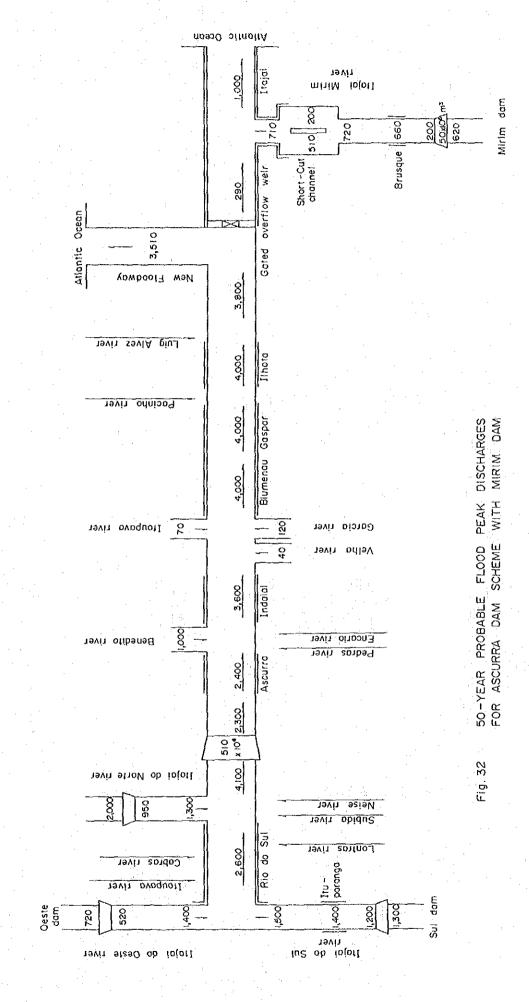
192.20

- 113 -



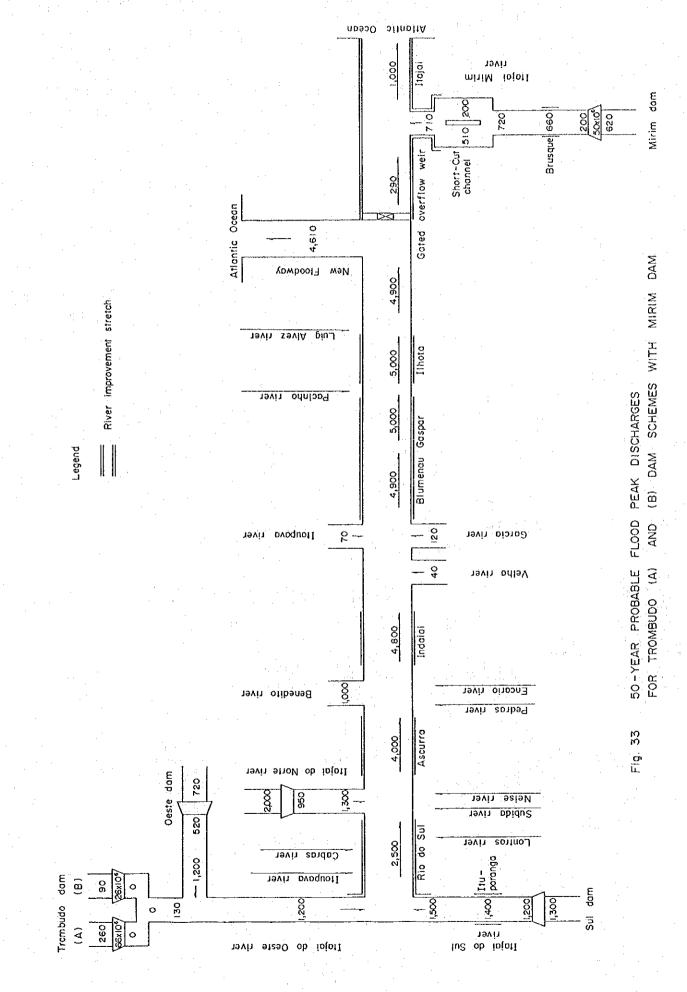
CONTROL OF

- 114 -



Legend River Improvement stretch

- 115 -



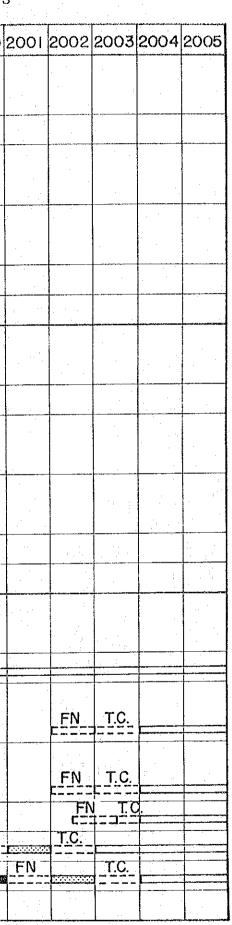
- 116 -

Fig. 34 IMPLEMENTATION SCHEDULE OF PROPOSED FLOOD CONTROL PROJECTS

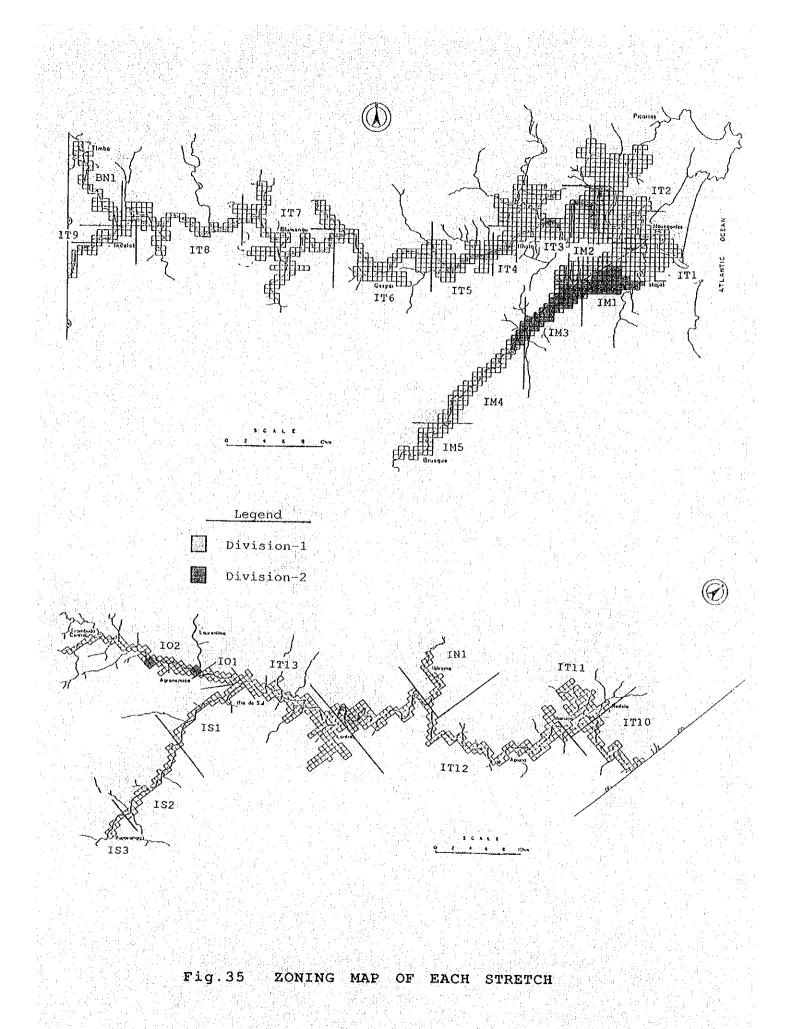
			:		and the state of the second second							al padra nep Fato tanàn (- T
Project	Const Cost (IO ⁶ Cz \$)	87	88	89	90	91	92	93	94	95	96	97	98	99	2000	2
Provisional Plan																
River improvement															t ta i	
Blumenau- Gaspar stretch	501		FN		<u> </u>								· · · · · · · · · · · · · · · · · · ·			
Floodway and downstream					FN		* 0									
of Itajai Mirim	737						T.C.									ĺ
Rio do Sul-Lontras				P" NE	1 .											ŀ
and ltuporanga stretches	879			FN 		T.C.										
Brusque stretch	105		 											 		
Sub total	2,222															:
Mid-Term Plan					· .											
River improvement	÷								-							
Blumenau-Gaspar stretch	261							FN	1.C.		<u> </u>					
Floodway and downstream																
of Itajai Milim	119										FN FI	T.C.				<u> </u> .
Rio do Sul-Lontras										CTNI -	TO					
and Ituporanga stretches	378							·		FN F====	T.C.				3	
Brusque stretch	13												<u>.</u>			
Sub total	771			a i								ļ				
Long-Term Plan							•		* a.	•					· .	
River improvement												· · · · ·				
Blumenau- Gaspar stretch	391												FN	T.C.		$\frac{1}{1}$
Floodway and downstream												- -	:			
of Itajai Mirim	197															
Rio do Sul-Lontras																
and Ituporanga stretches	283													ļ		
Brusque stretches	22															
Ilhota stretch	237														FN	E
Ascurra stretch	95											· ·	·			
Sub total	1,225										:				<u> </u>	
Total	4,218	Note	; 2000	F	easib	ility s	tudy				etailed	desi ng and		F		<u>ב</u>

.

r



- 117 -



÷