

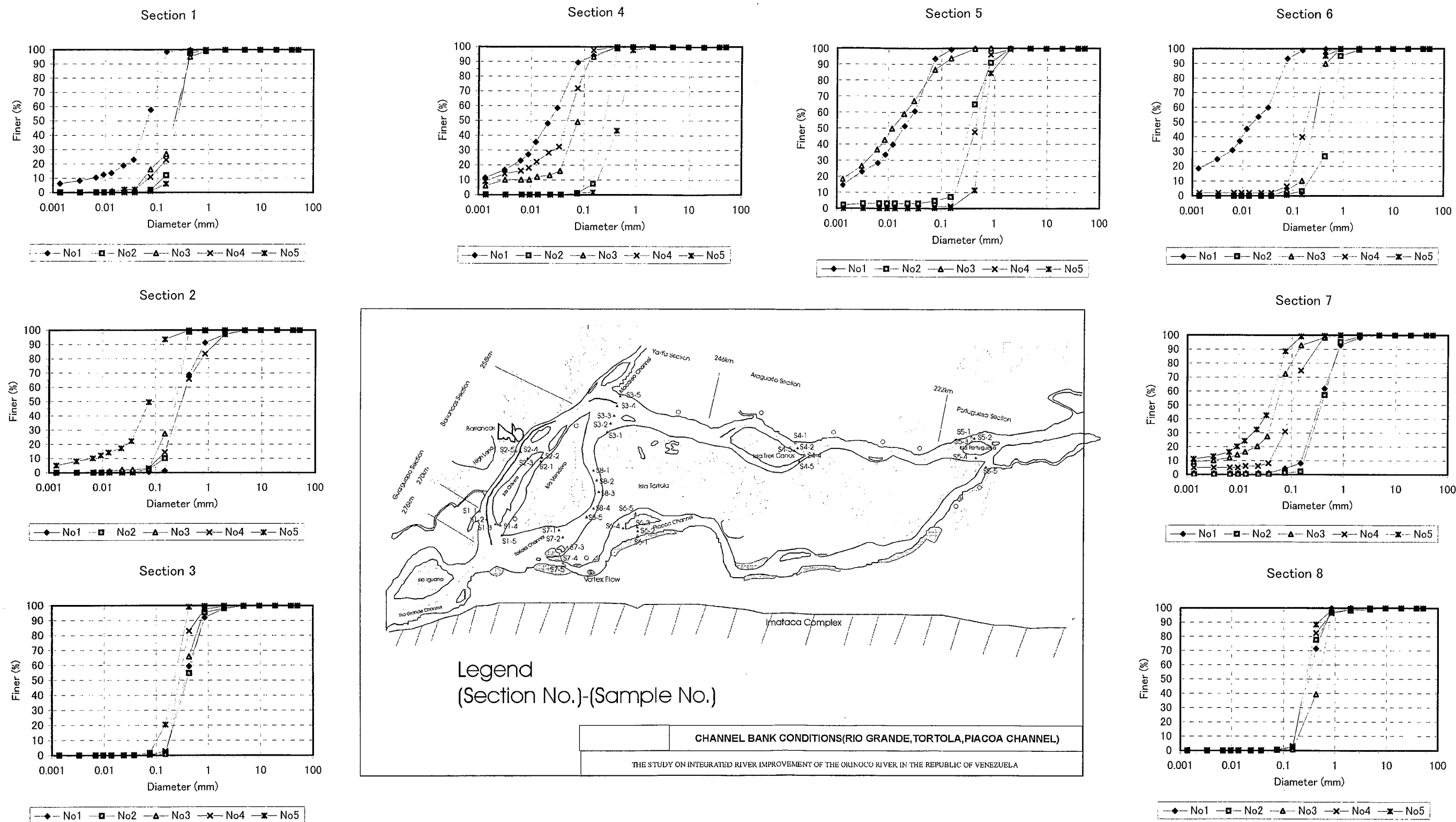
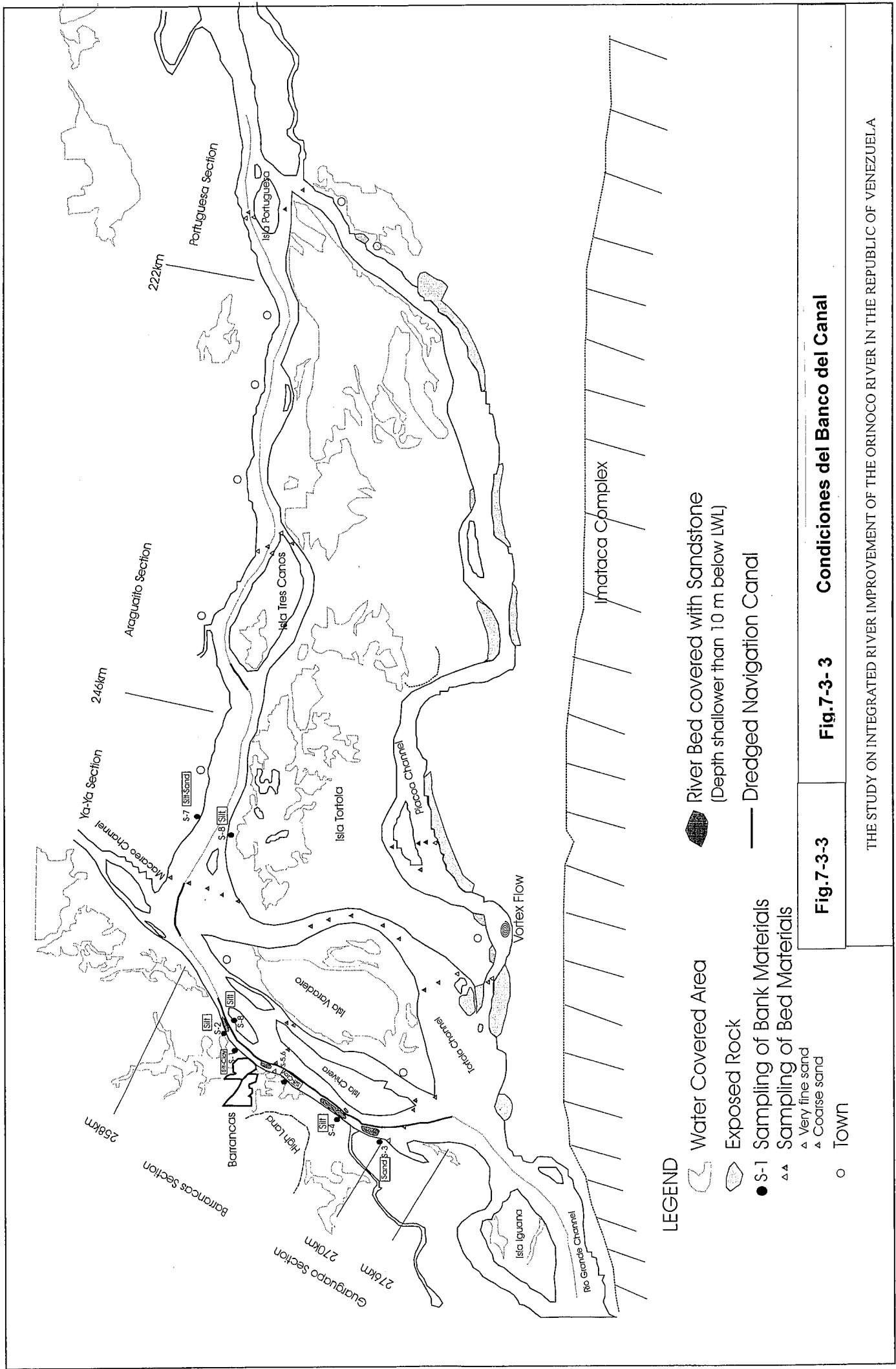


Fig. 7-3-2 Curvas de Nivel para el Material del Lecho (Estudio JICA, 1999)



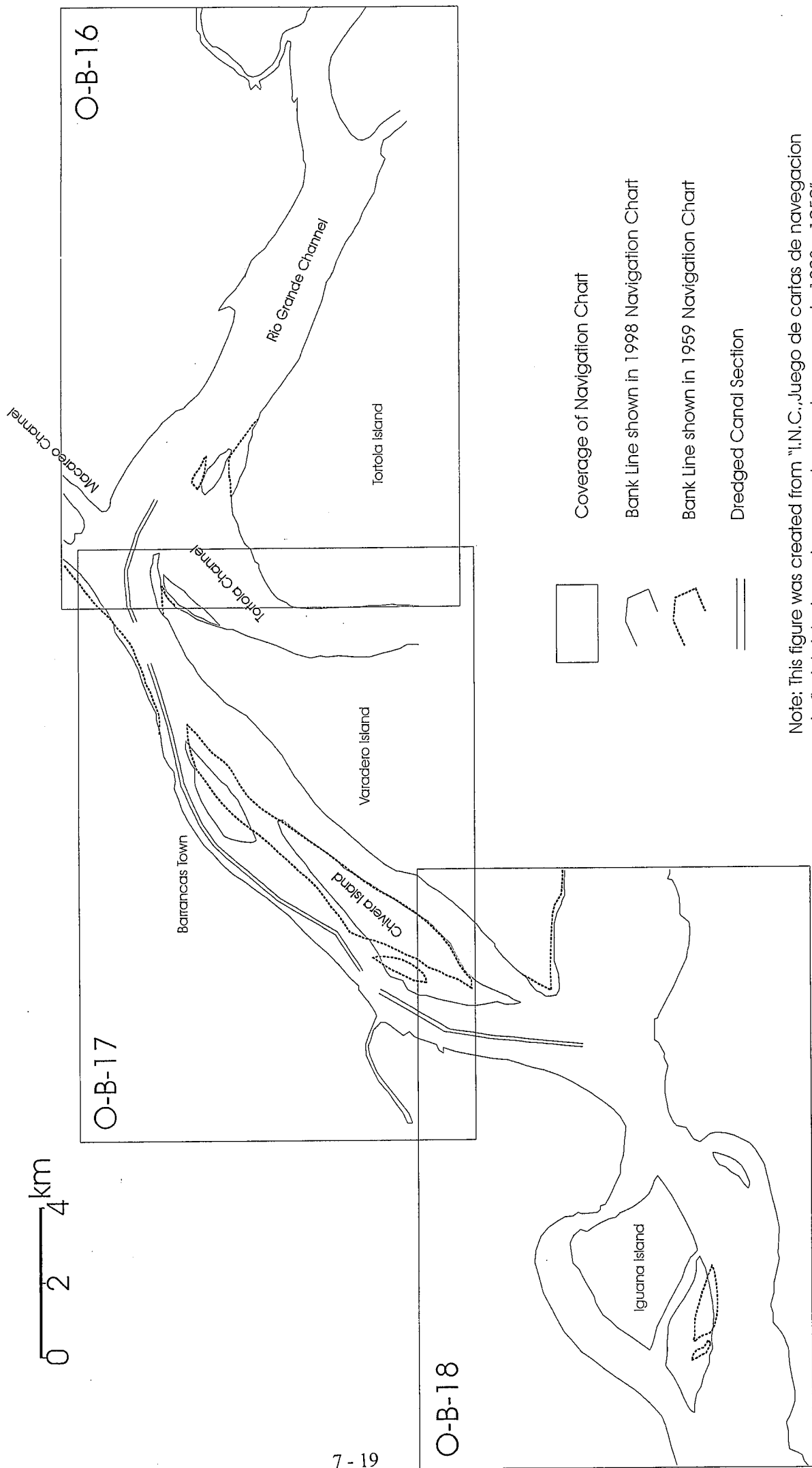


Fig.7-3- 4 Cambios Recientes en la Línea del Banco

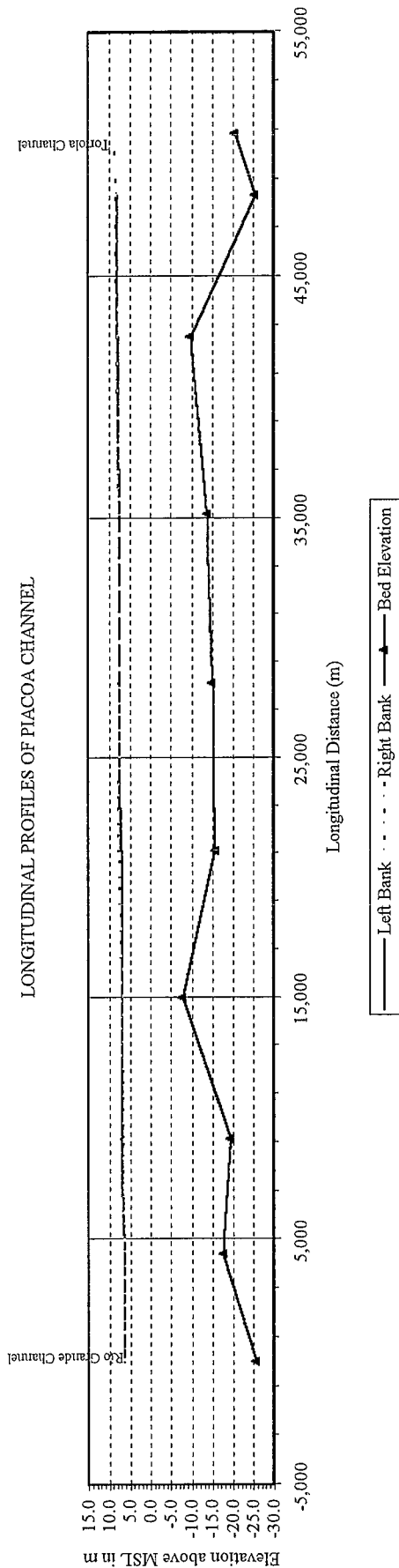
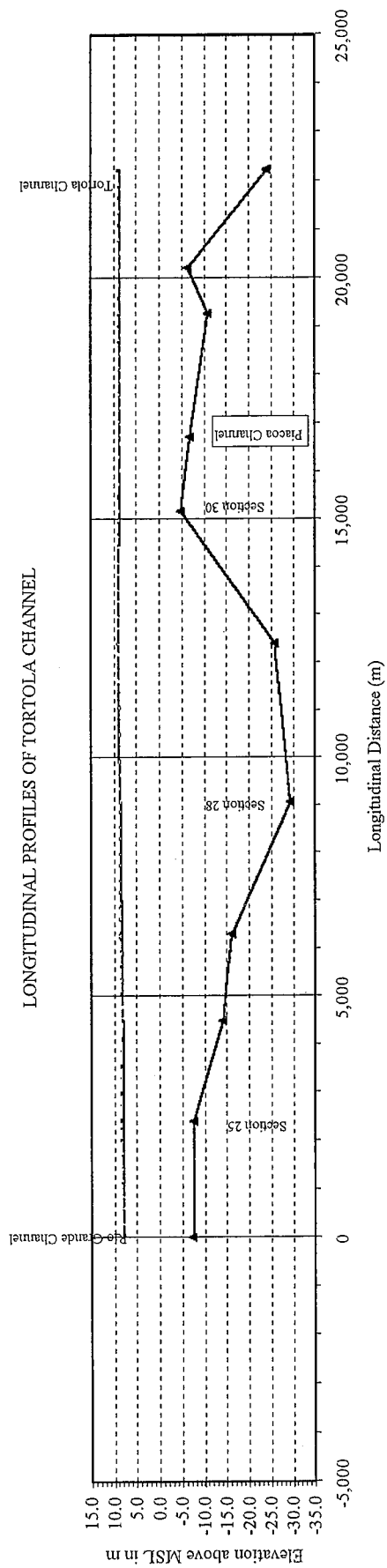


Fig.7-3- 5 Perfil Longitudinal de los Principales Ramales (1/2)

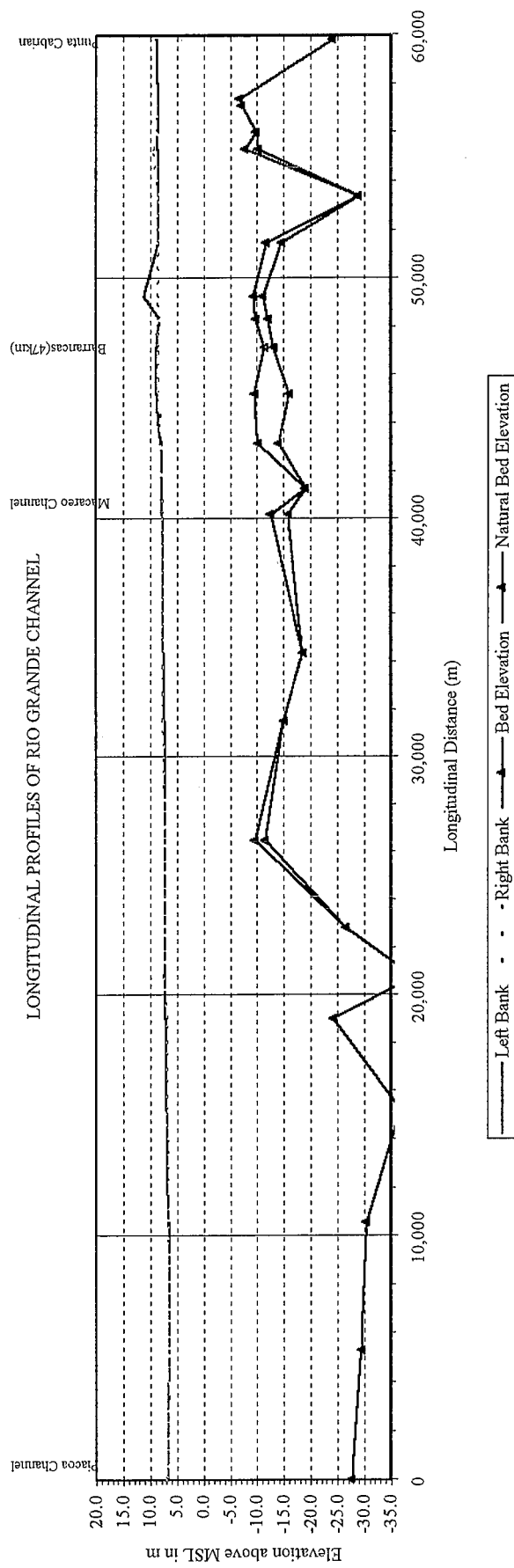


Fig.7-3-5 Perfil Longitudinal de los Principales Ramales (2/2)

Fig.7-3- 6(1/3) Variación en la Elevación del Lecho del Canal (Centro)

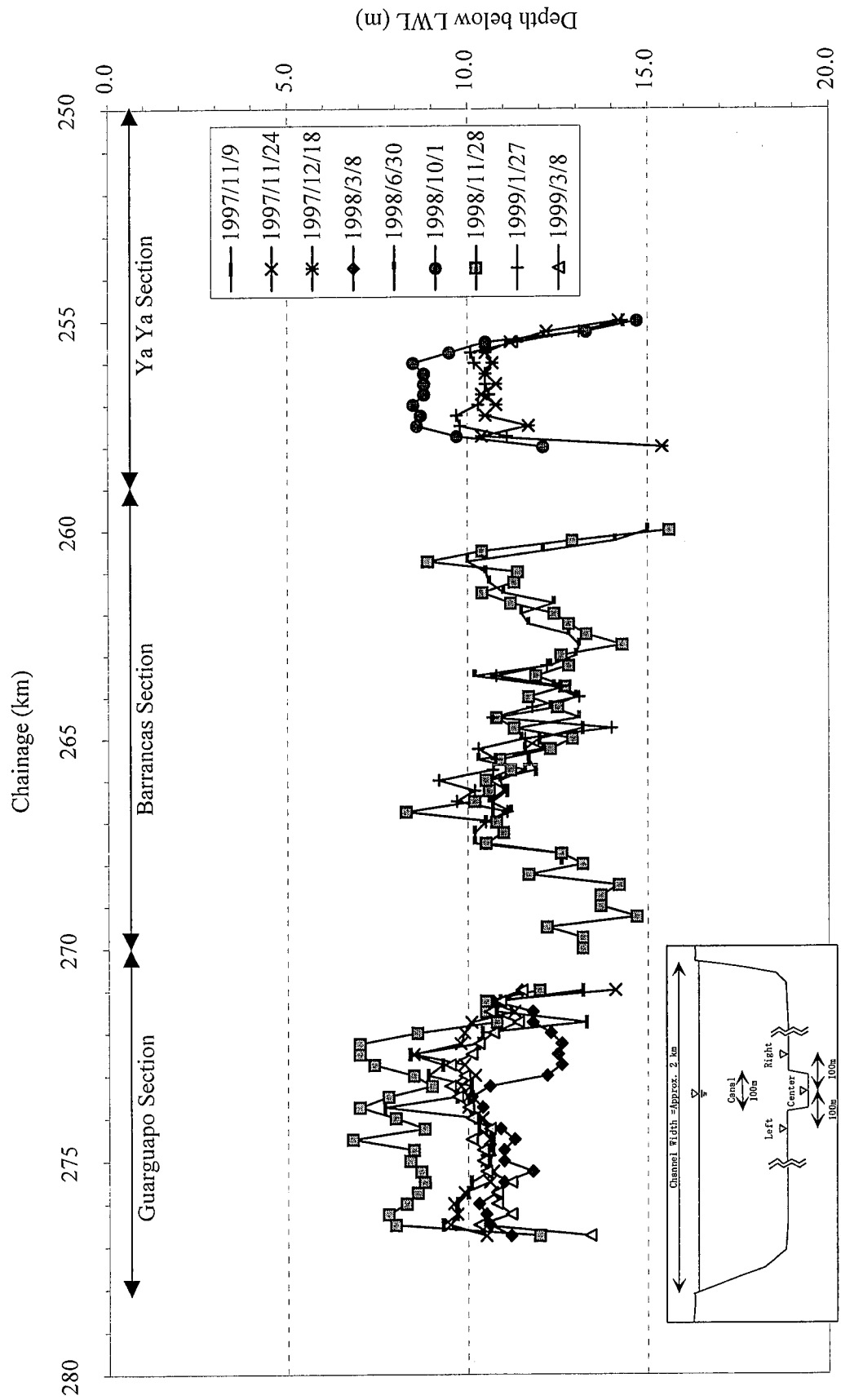


Fig.7-3-6(2/3) Channel' .levación del Lecho del Canal (Derecha del Canal)

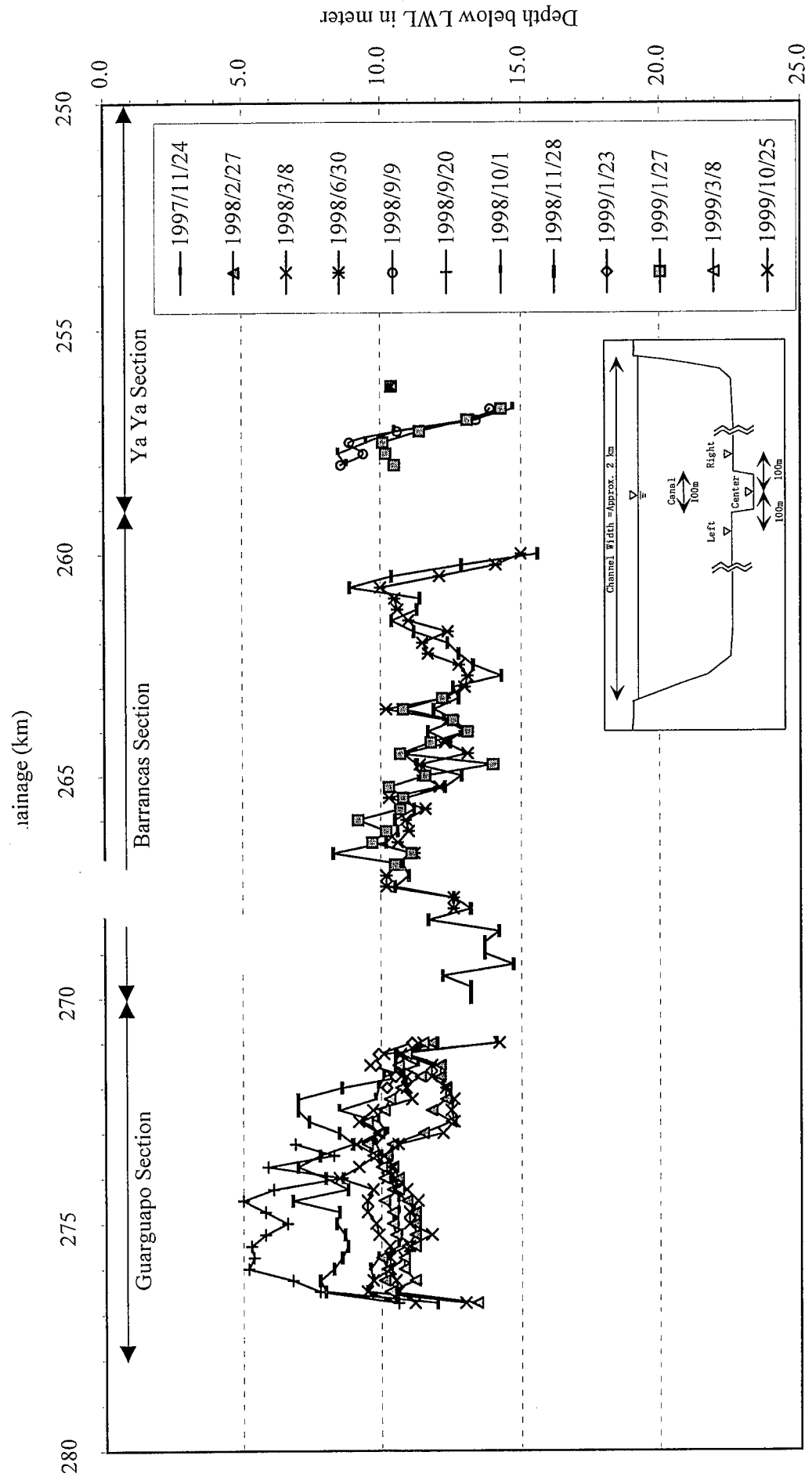


Fig.7-3-6(3/3) Variación en la Elevación del Lecho del Canal (Izquierda del Canal)

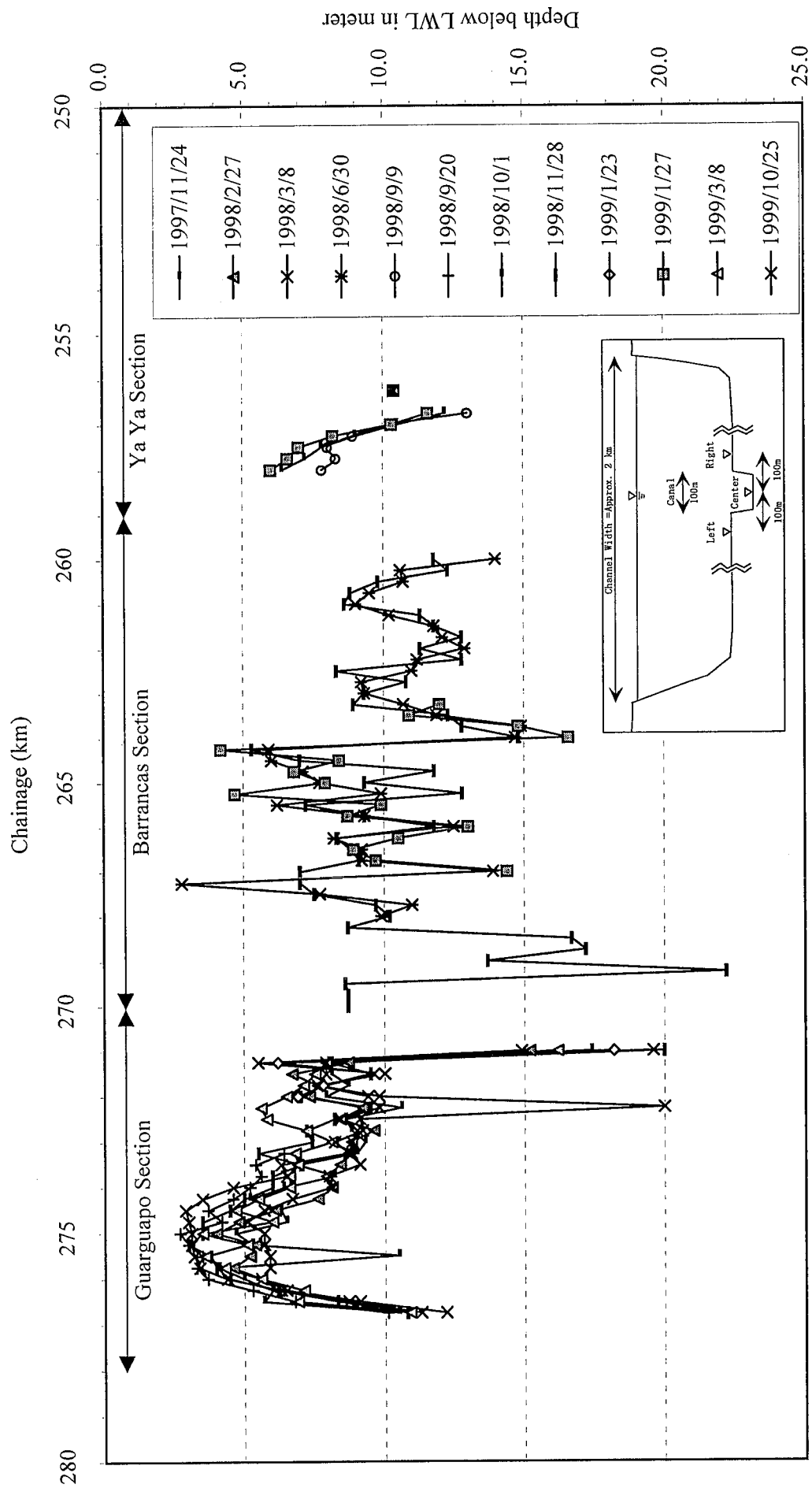
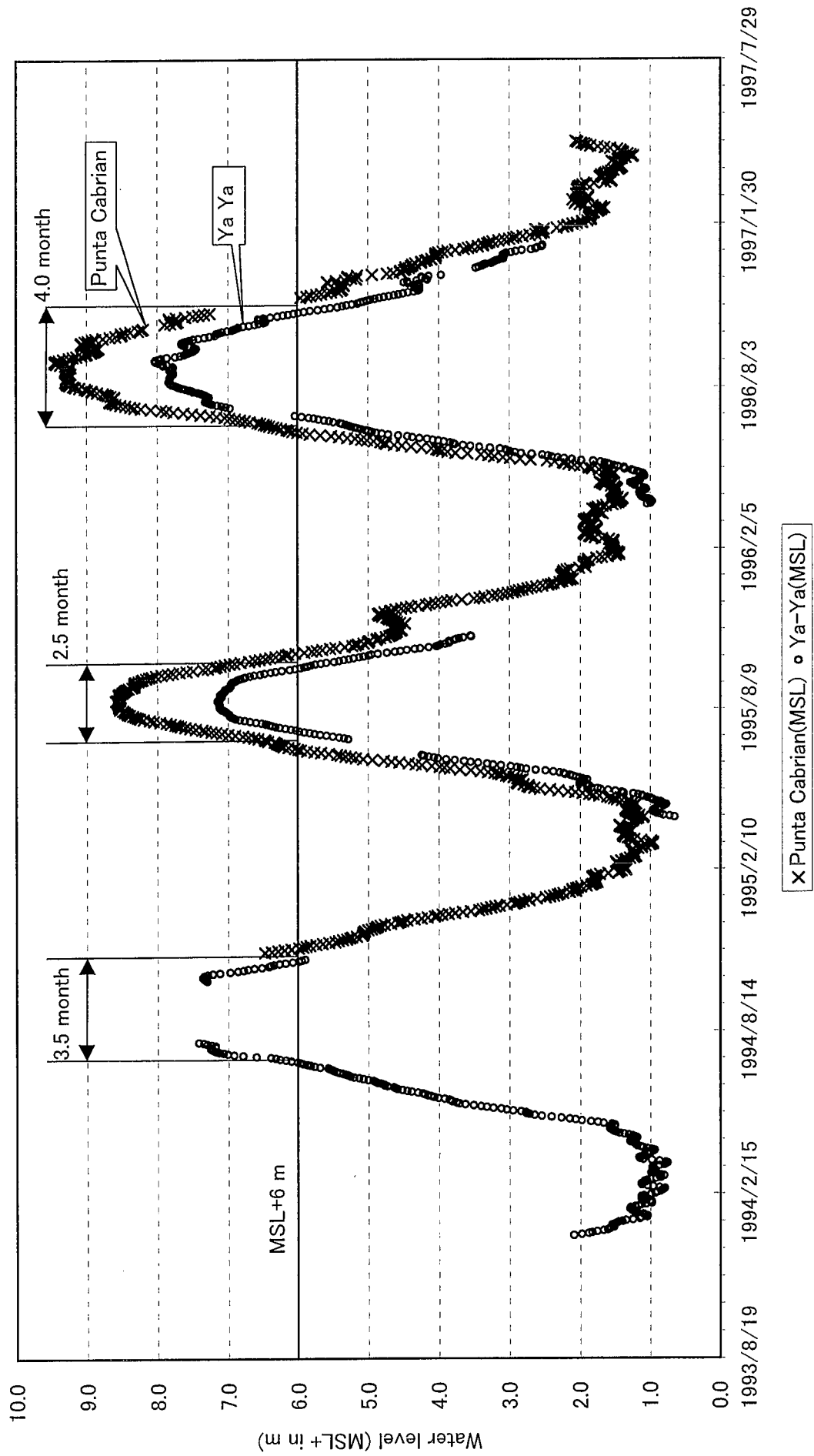


Fig.7-3-7 Variaciones en el Nivel del Agua en los Tramos Prioritarios



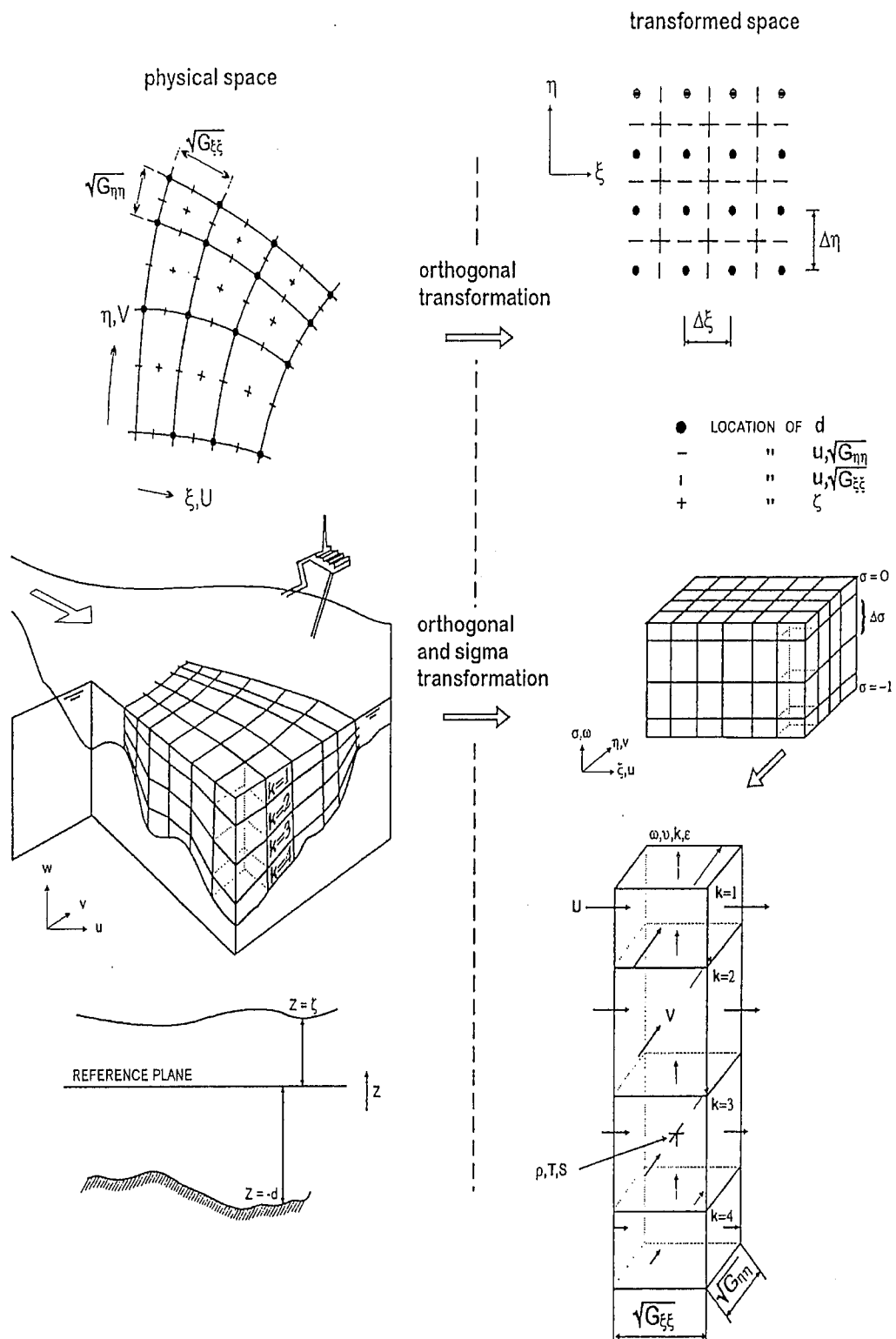


Fig.7-3- 8

Transformación Ortogonal y Sigma

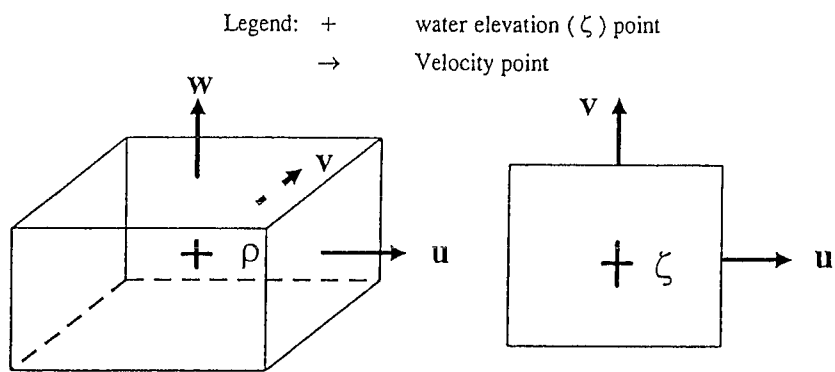
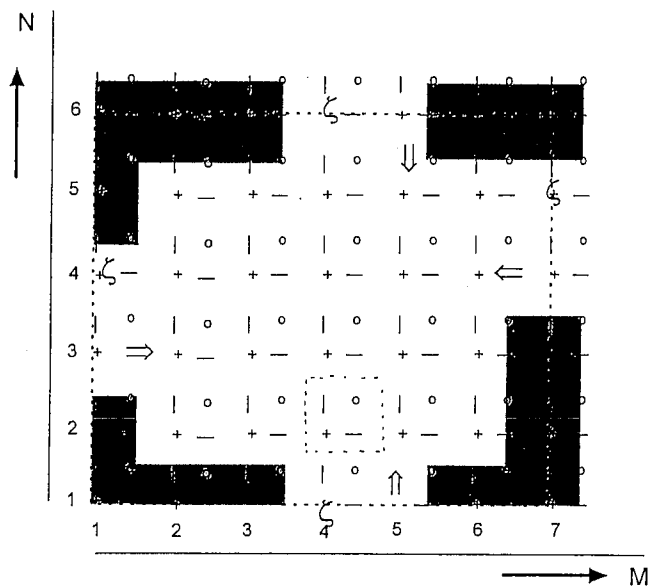


Fig. 4.1 Grid staggering

A) 3D-view

and

B) Horizontal/Plan view



Legend:

- - - computational grid enclosure
- Land boundary
- + water-level point, constituent concentration
- U-velocity point, U-roughness point, $\sqrt{G_{\eta\eta}}$
- | V-velocity point, V-roughness point, $\sqrt{G_{\xi\xi}}$
- o depth point
- ζ water-level opening (specified in input, cut open by the program)
- ← → U-velocity opening (specified in input, cut open by the program)
- ↓ ↑ V-velocity opening (specified in input, cut open by the program)
- | | |
|---|---|
| | o |
| + | - |

 staggered grid point with identical (M,N) index
- | | | |
|---|---|---|
| o | | o |
| | + | |
| o | | o |

 one computational cell

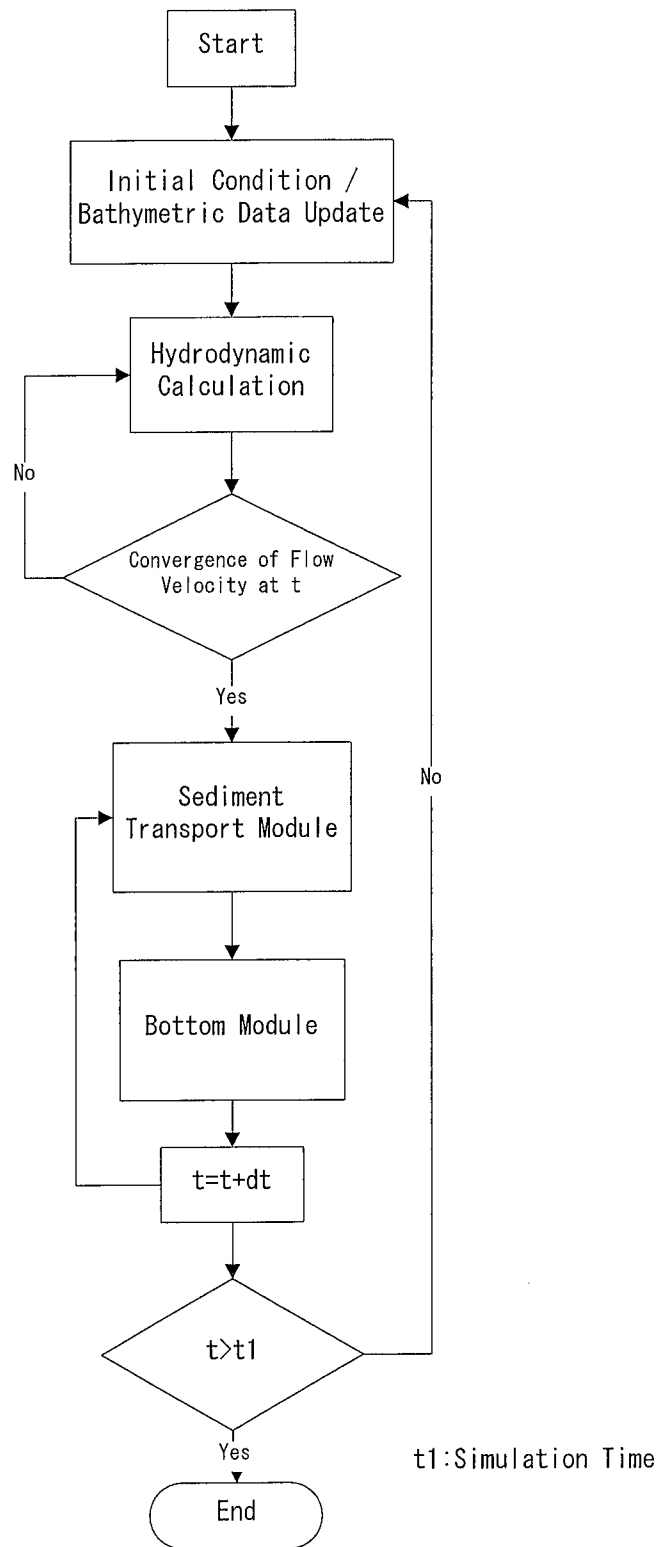


Fig.7-3- 10 Diagrama de Flujo en la Simulación Morfológica

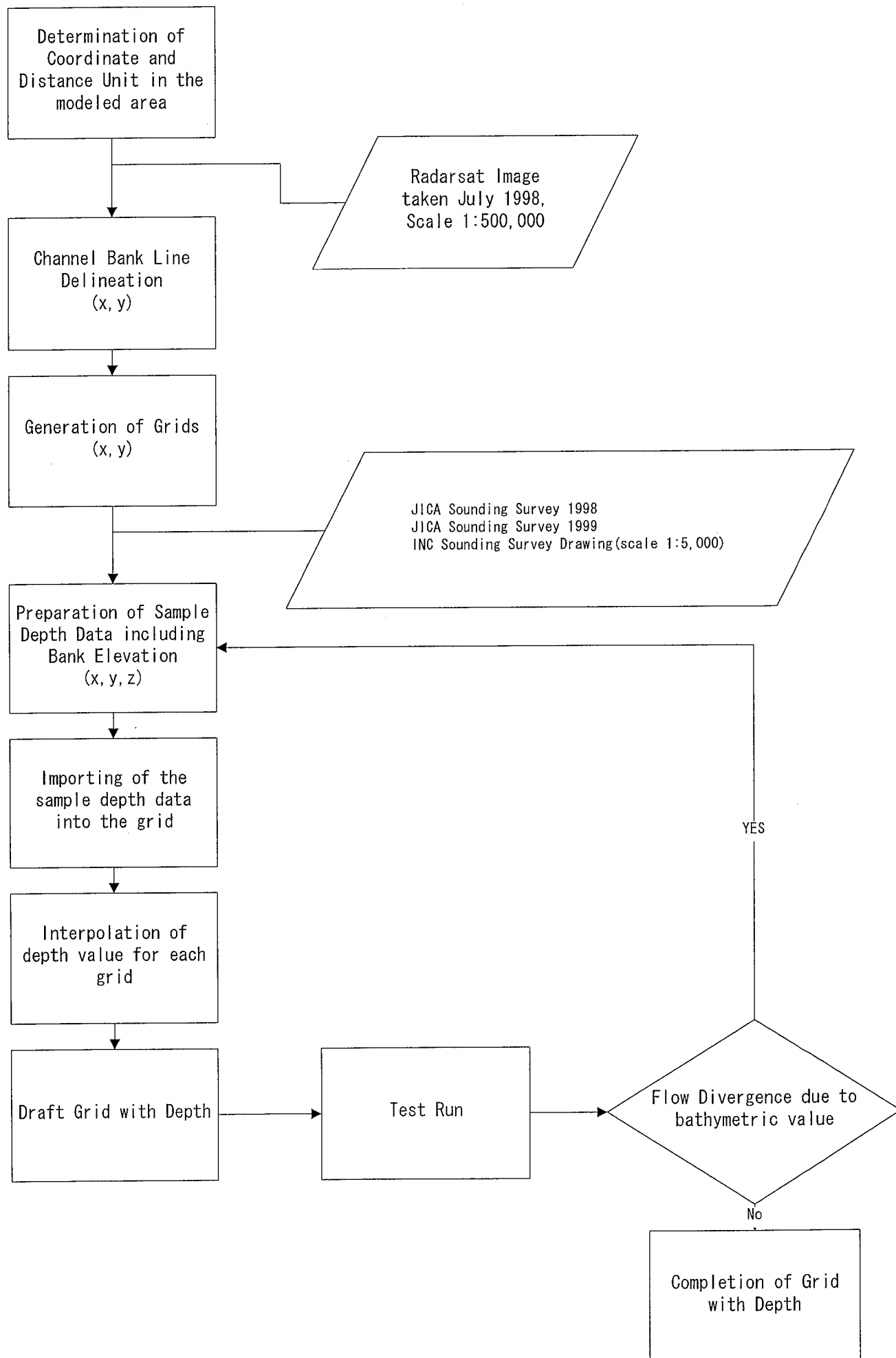


Fig.7-3- 11 Diagrama de Flujo para la Generación de la Cuadrícula y Profundidad

- Main Features
- Depth Averaged 2 Dimensional Flow
- Curvilinear Coordinate
- Differential Solution Scheme
- Sediment Transport Analysis
- Drying and Wetting taken into account

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- Curvilinear Coordinate
- Differential Solution Scheme
- Sediment Transport Analysis
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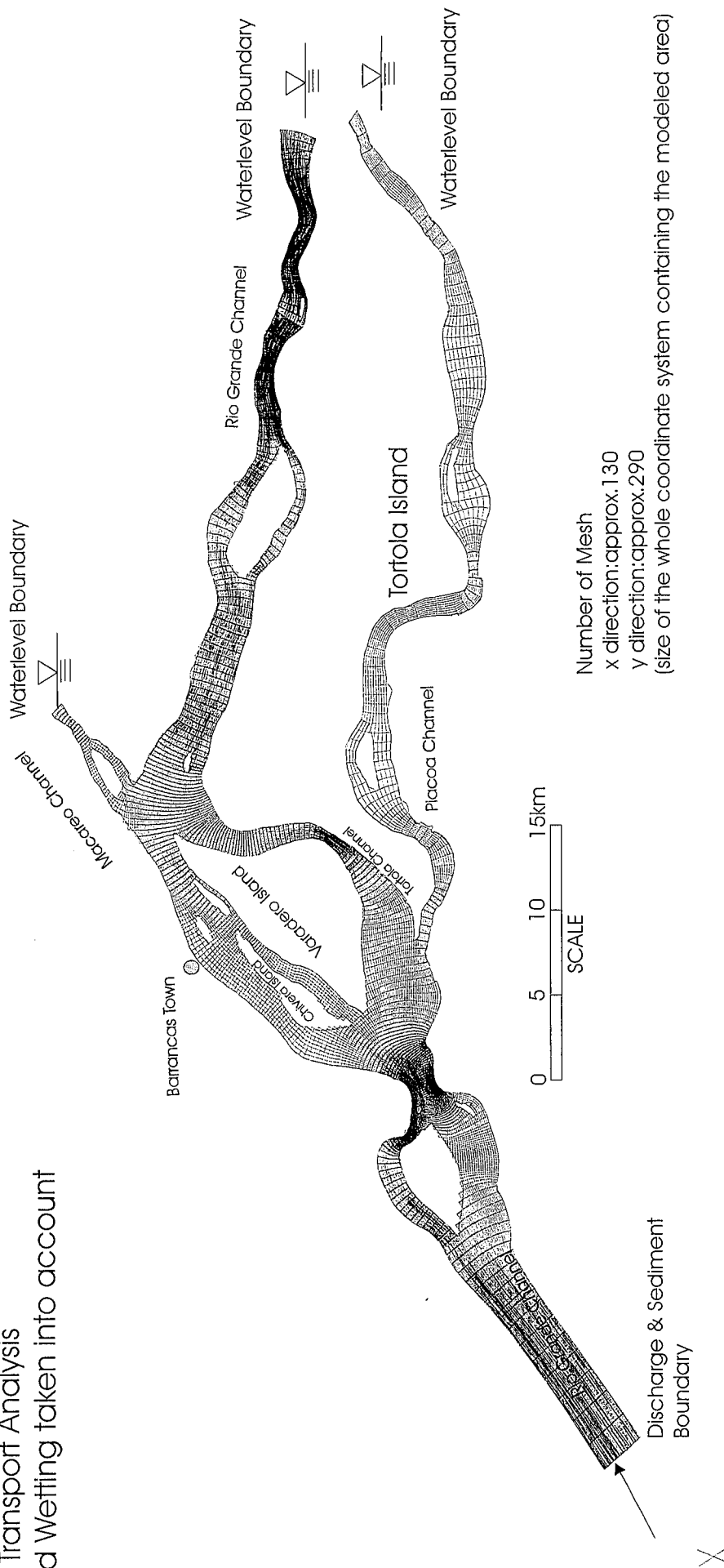


Fig.7-3-12 Cuadrícula Computacional para la Simulación Bidimensional

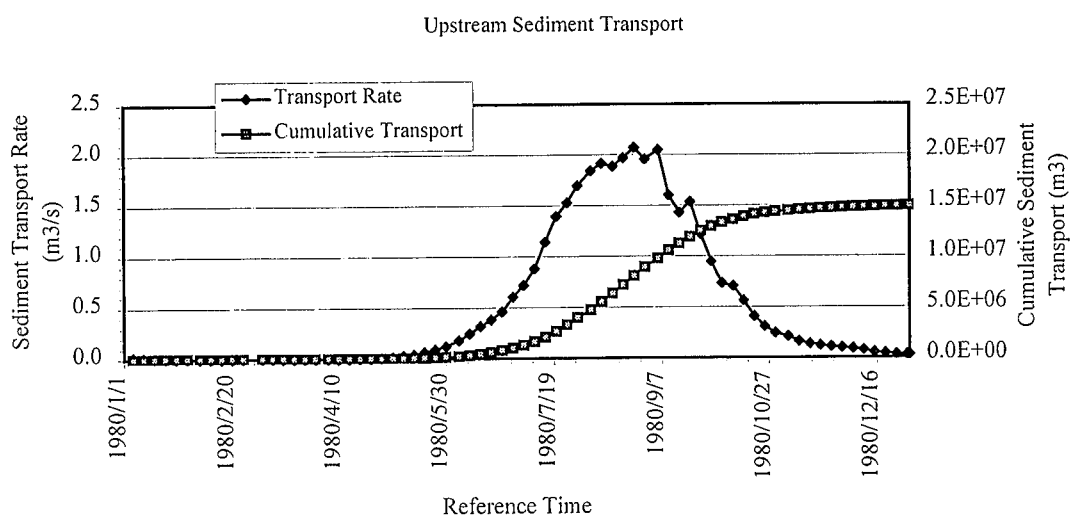
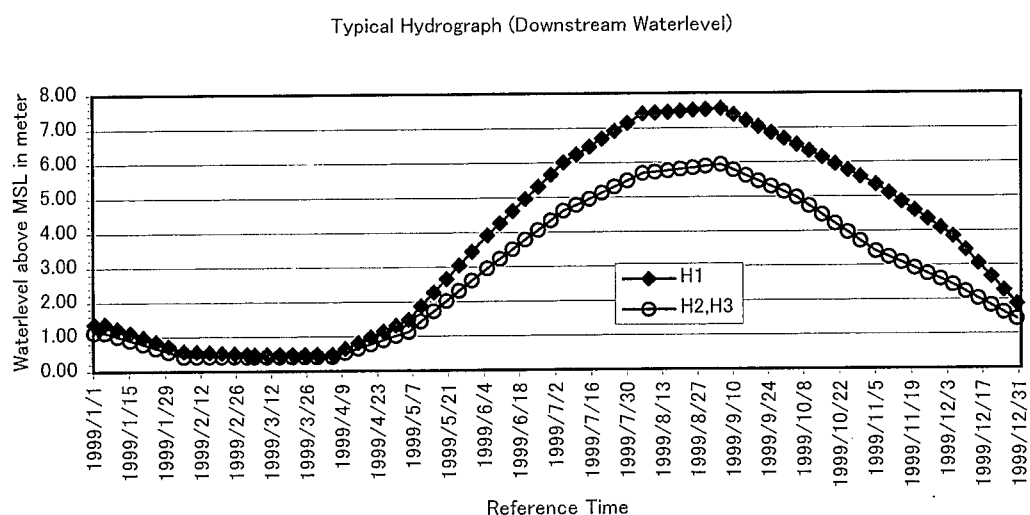
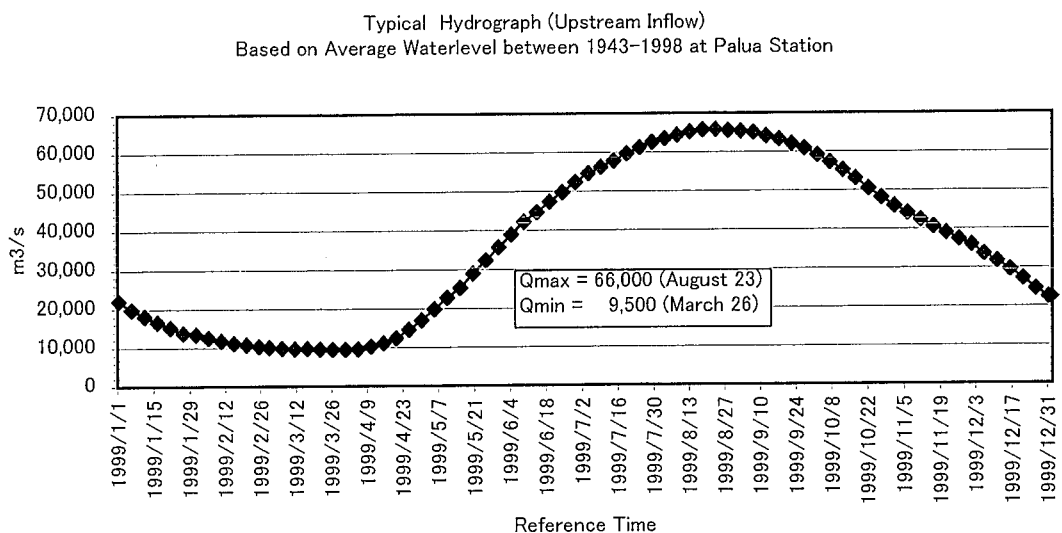
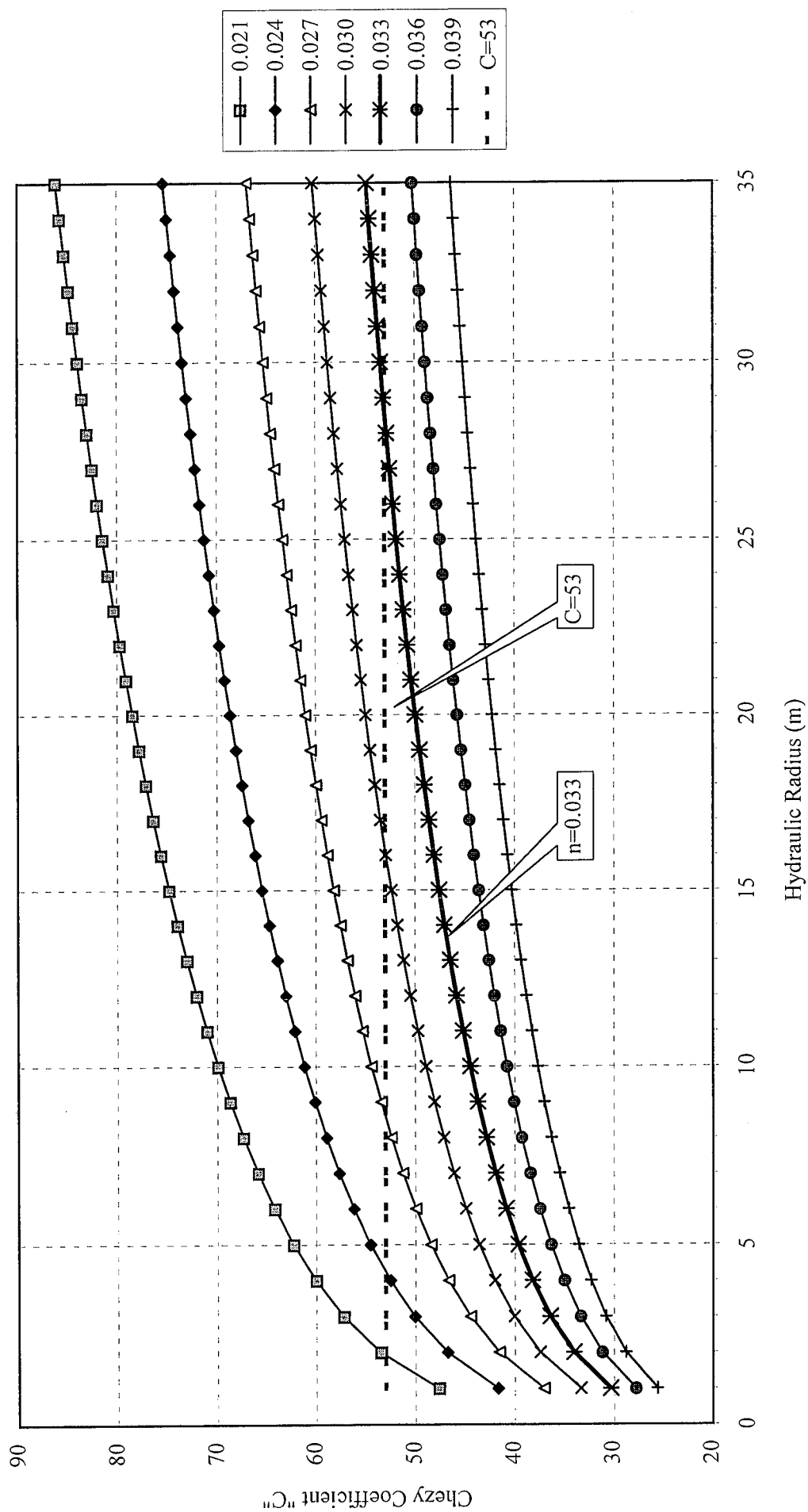


Fig.7-3- 13 Hidrogramas de Límite para la Simulación Bidimensional

Fig.7-3-14 Conversión para los Coeficientes de Aspereza



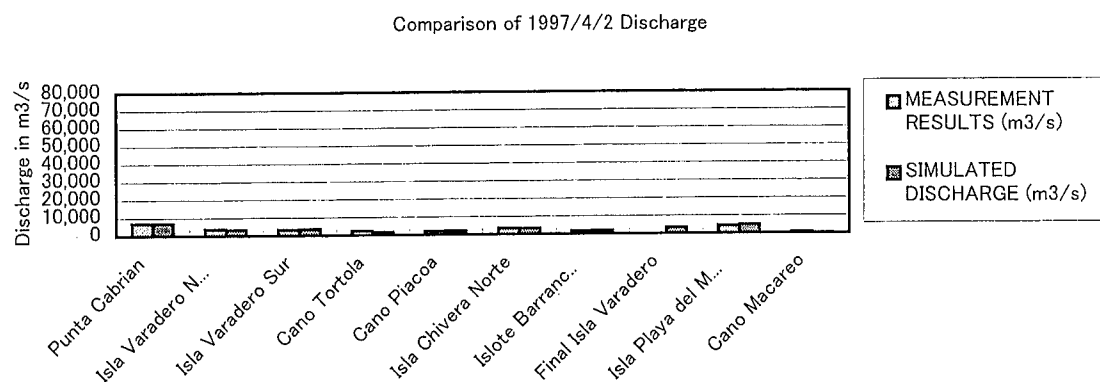
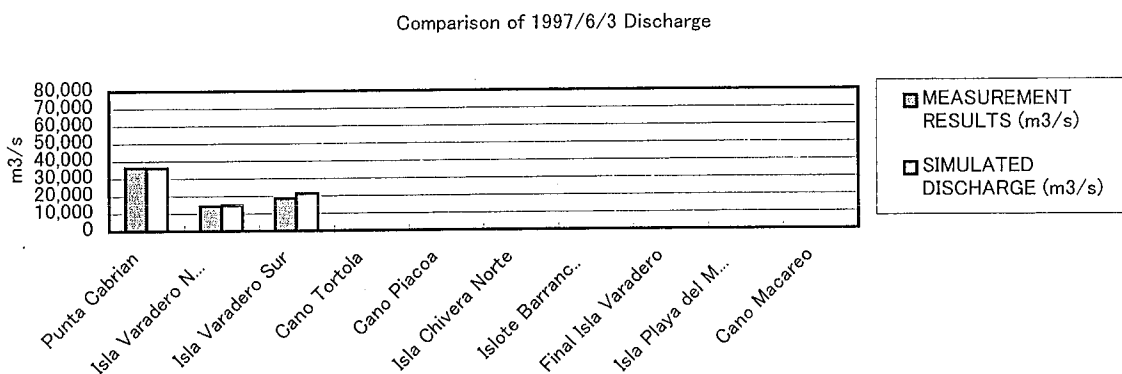
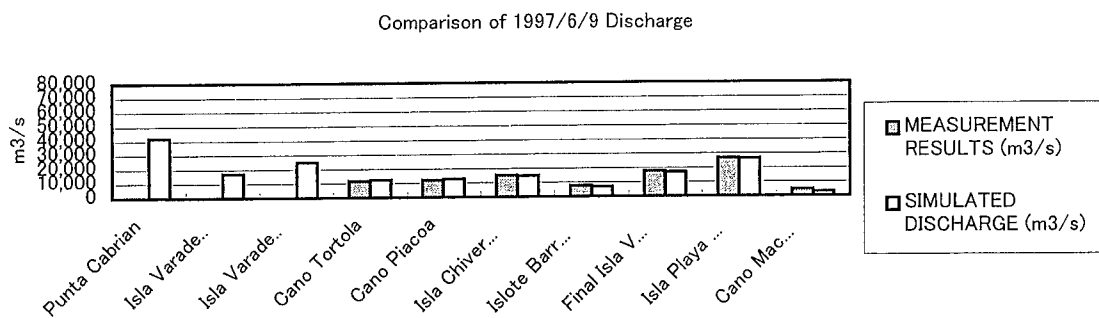
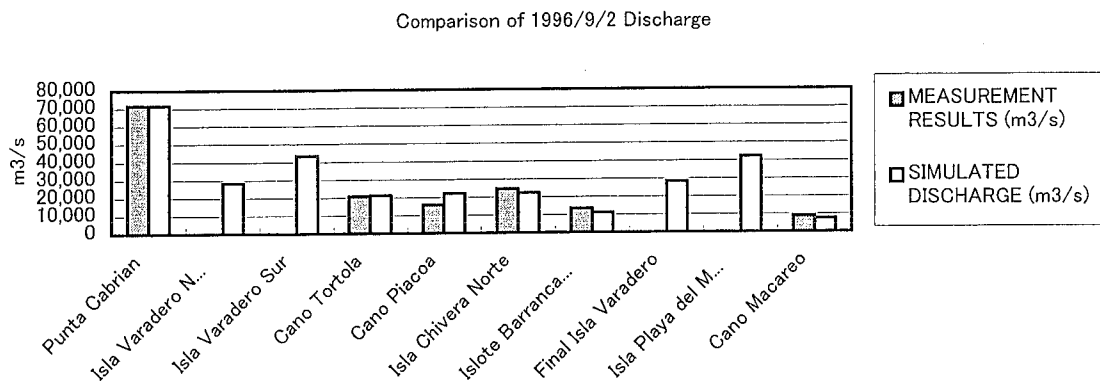


Fig.7-3-15

Fig.7-3- 15

Calibración de la Descarga Transversal

September 2, 1996

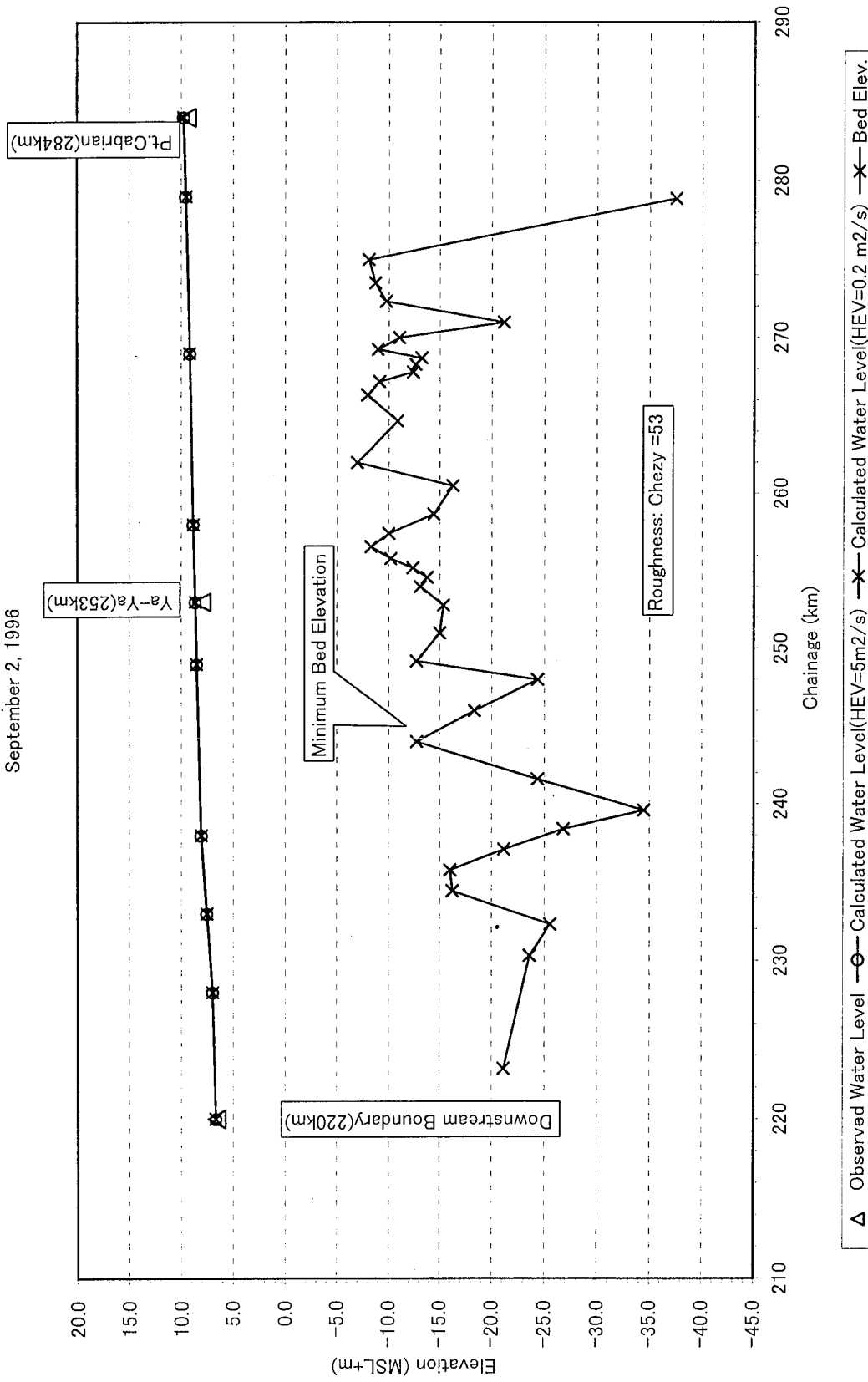


Fig.7-3-16

Fig.7-3-16 Perfil Computado del Nivel de Agua