

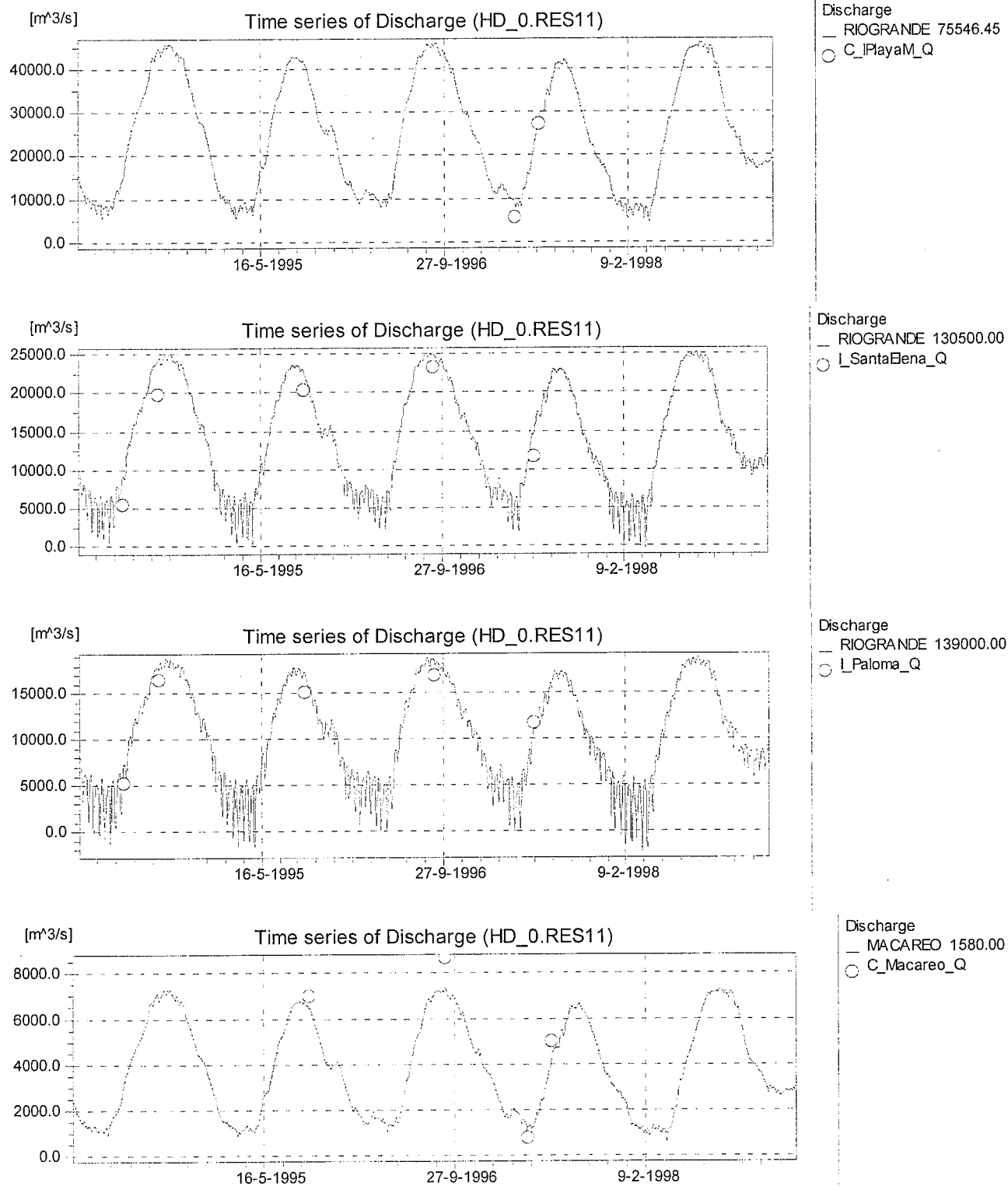
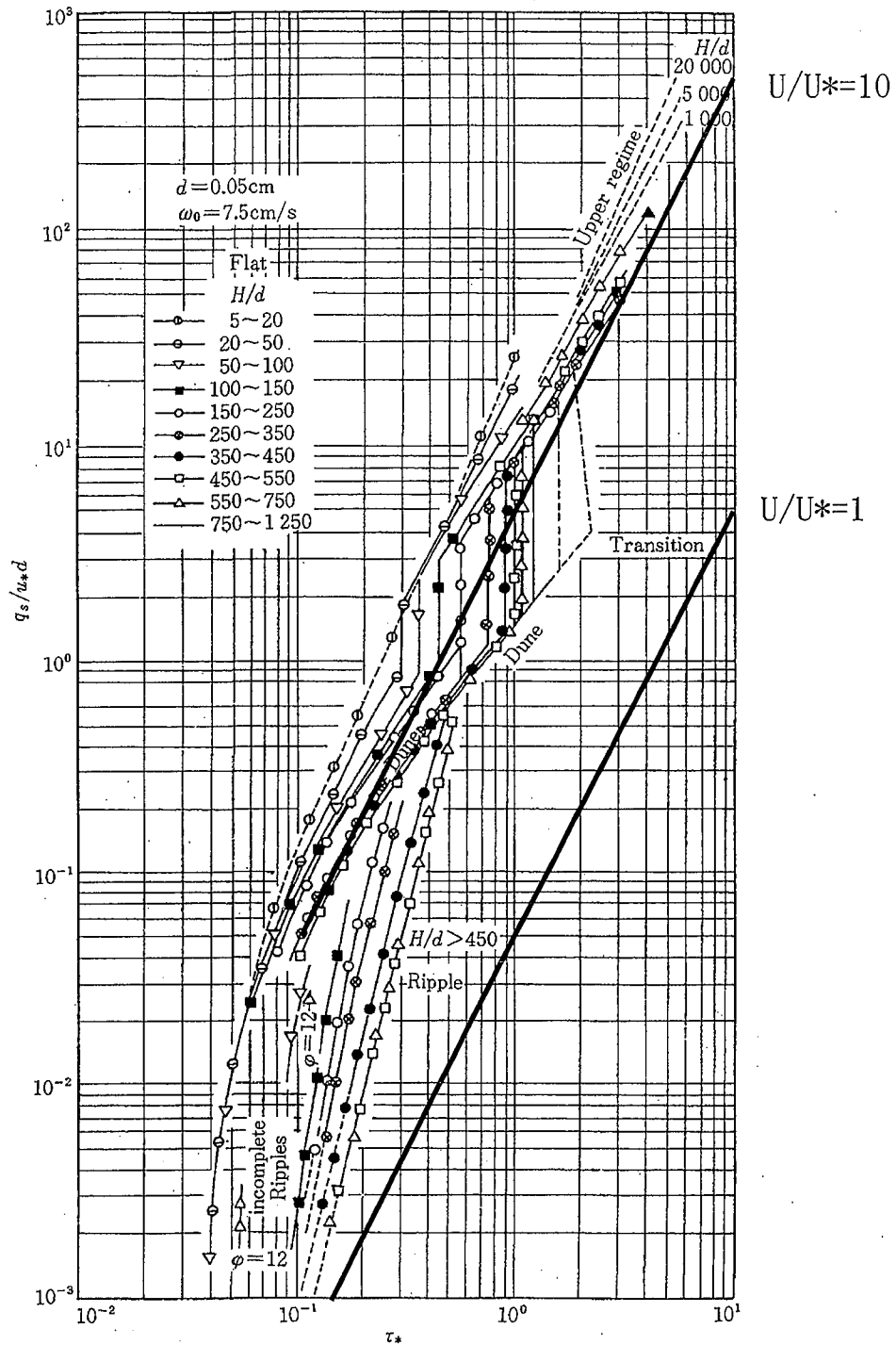


Fig. 6-3-8 Comparación de la Descarga Calculada y Observada (2/2)



図A 1.18 q_s/u_*d と τ_* の関係 ($d=0.05$ cm の場合)⁴⁹⁾

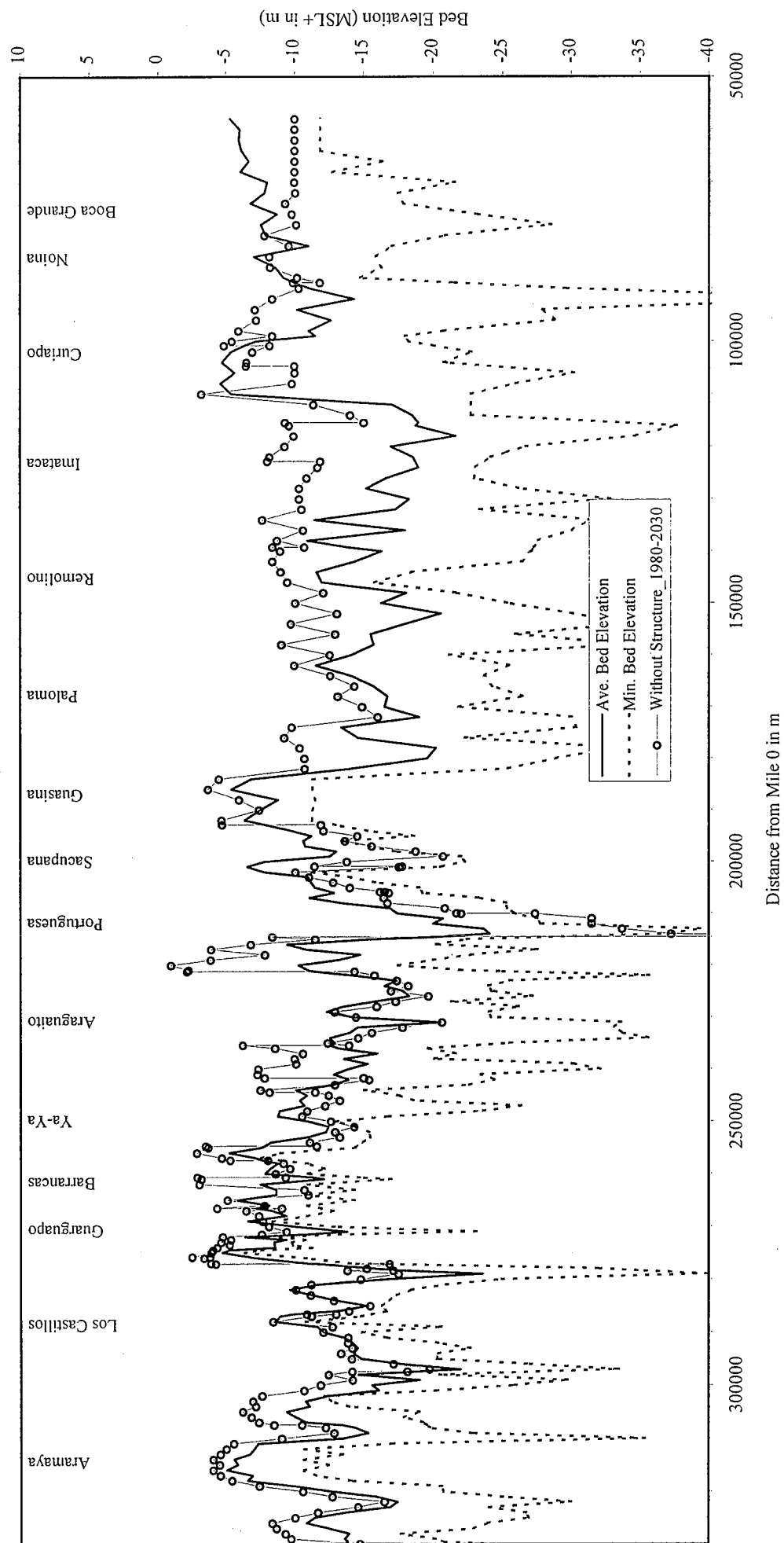
Source: K. Yamamoto (1994), Alluvial River Engineering, Sankaido

$$\frac{q}{u_* d} = 0.05 \left(\frac{u}{u_*} \right)^2 \tau_*^2$$

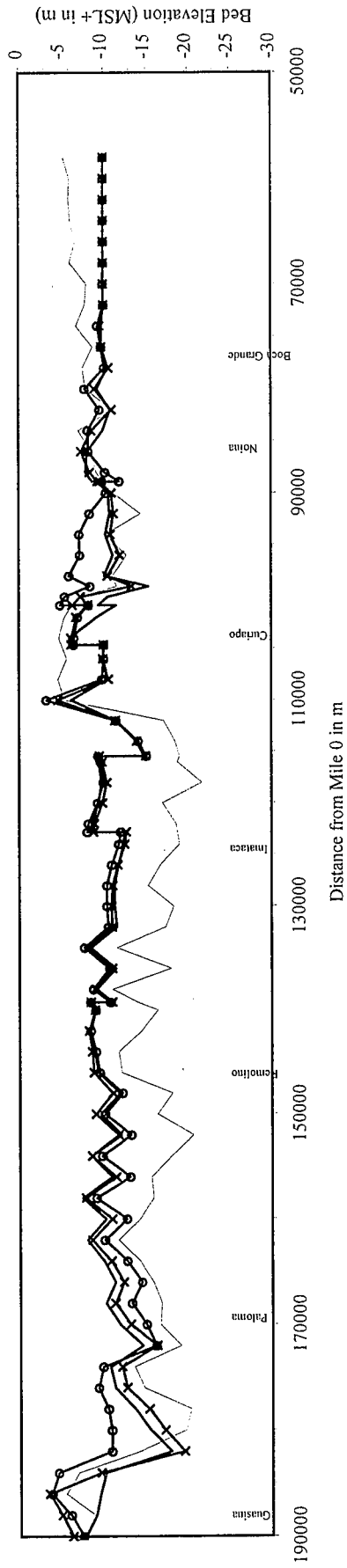
$$\tau_* = \theta = \frac{u_*^2}{(s-1)gd}$$

Fig. 6-3-9 Relación de la Fórmula de Engelund-Hansen y otras Fórmulas

Fig. 6-3-10 Perfil Longitudinal de la Elevación del Lecho en Caño Río Grande
(Initial Condition:BL=MSL-10m, Simulation Time 51 Years)



LONGITUDINAL PROFILE OF BED ELEVATION IN RIO GRANDE CHANNEL



LONGITUDINAL PROFILE OF BED ELEVATION IN RIO GRANDE CHANNEL

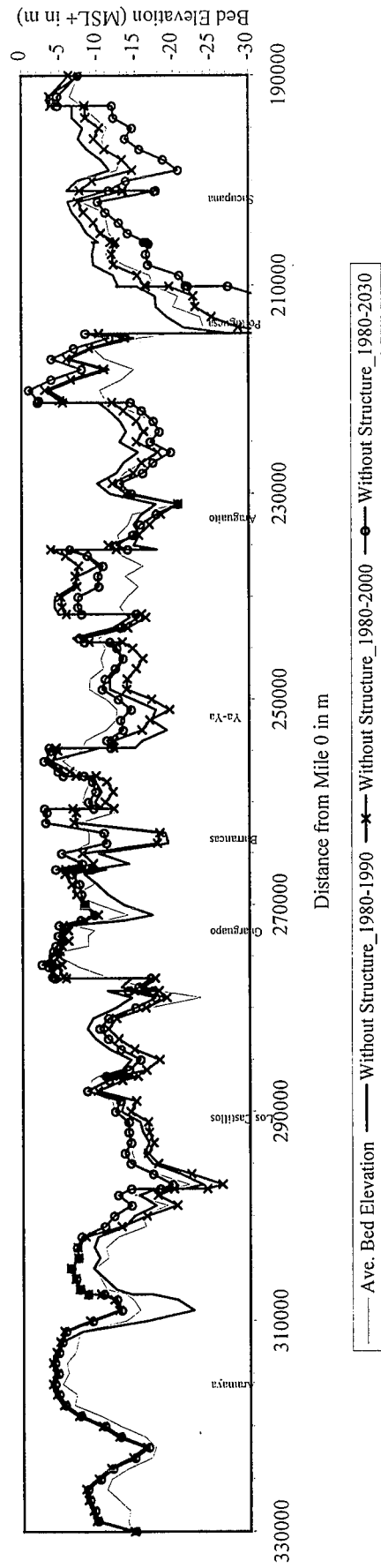


Fig. 6-3-11 Variación de la Elevación del Lecho por Simulación Anual

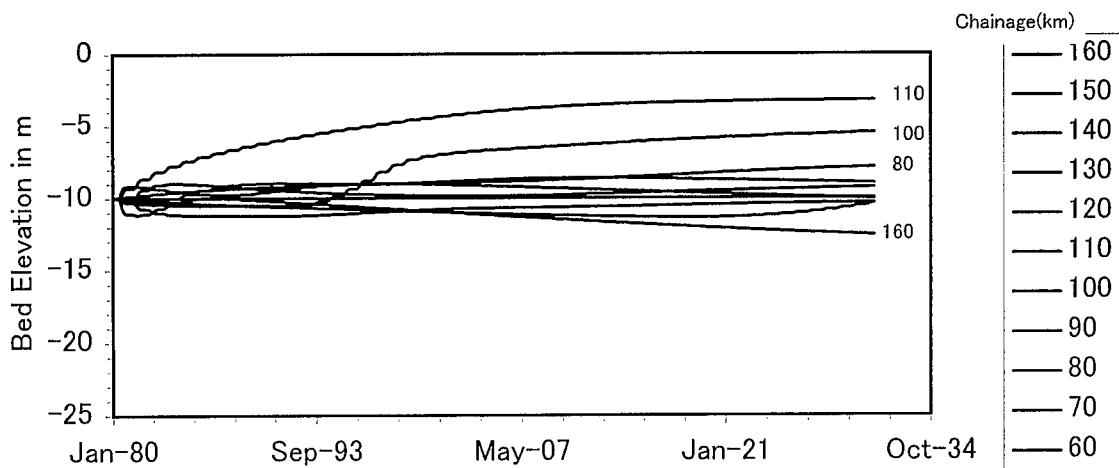
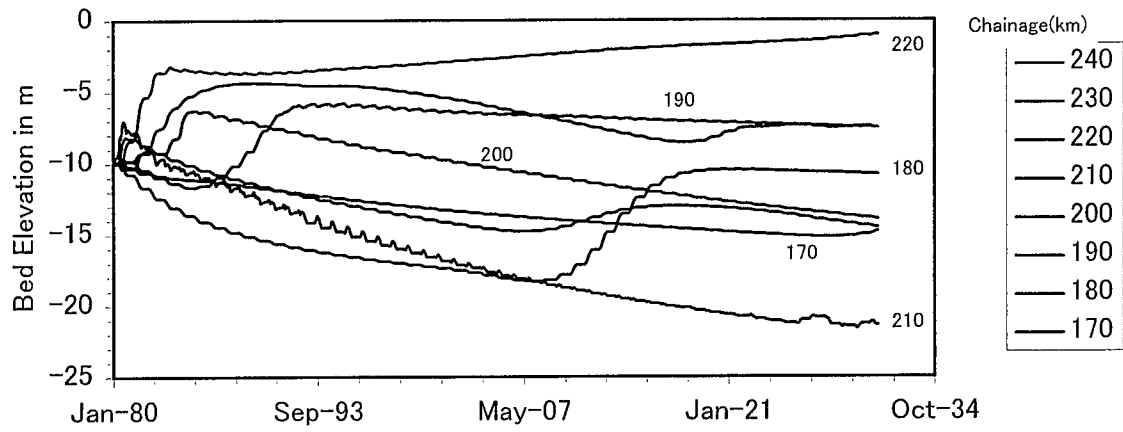
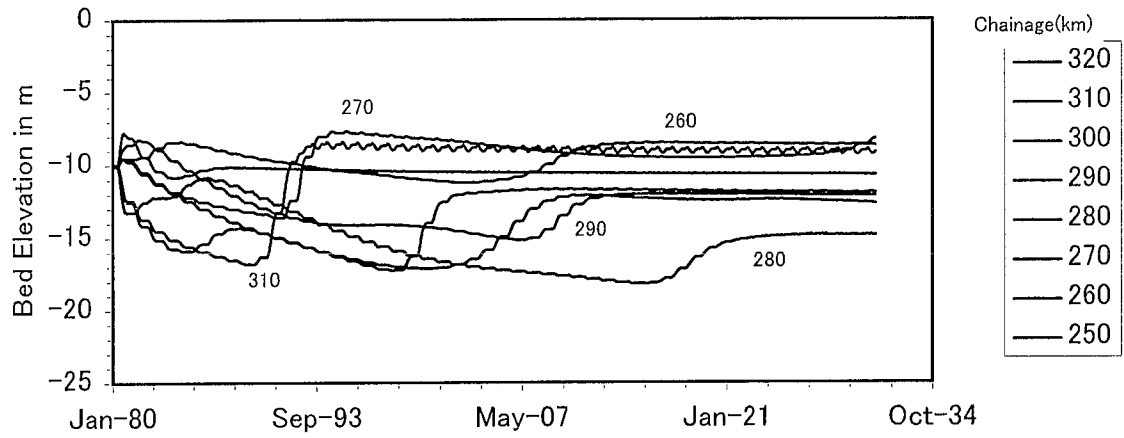


Fig. 6-3-12 Serie de Tiempo en Elevaciones de Lecho Simuladas en el Caño Río Grande

LONGITUDINAL PROFILE OF BED ELEVATION IN RIO GRANDE CHANNEL

Alt.A1:Discharge Control at Aramaya

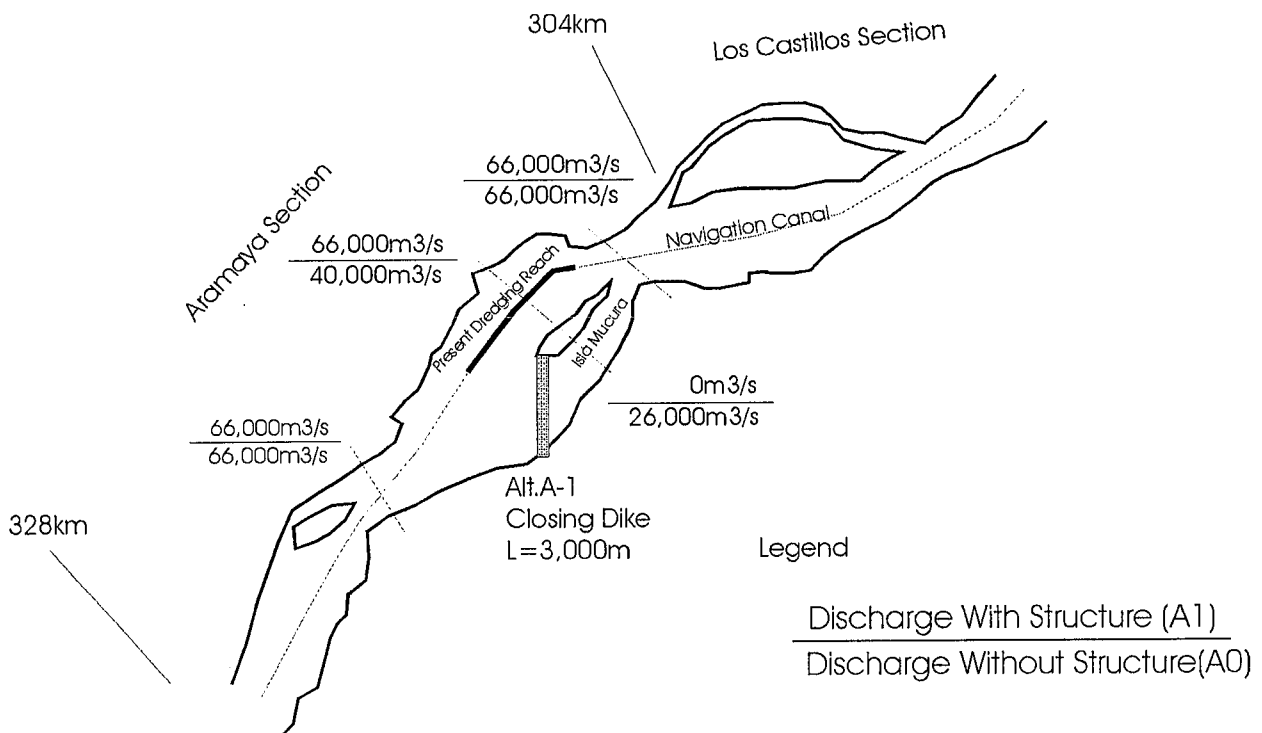
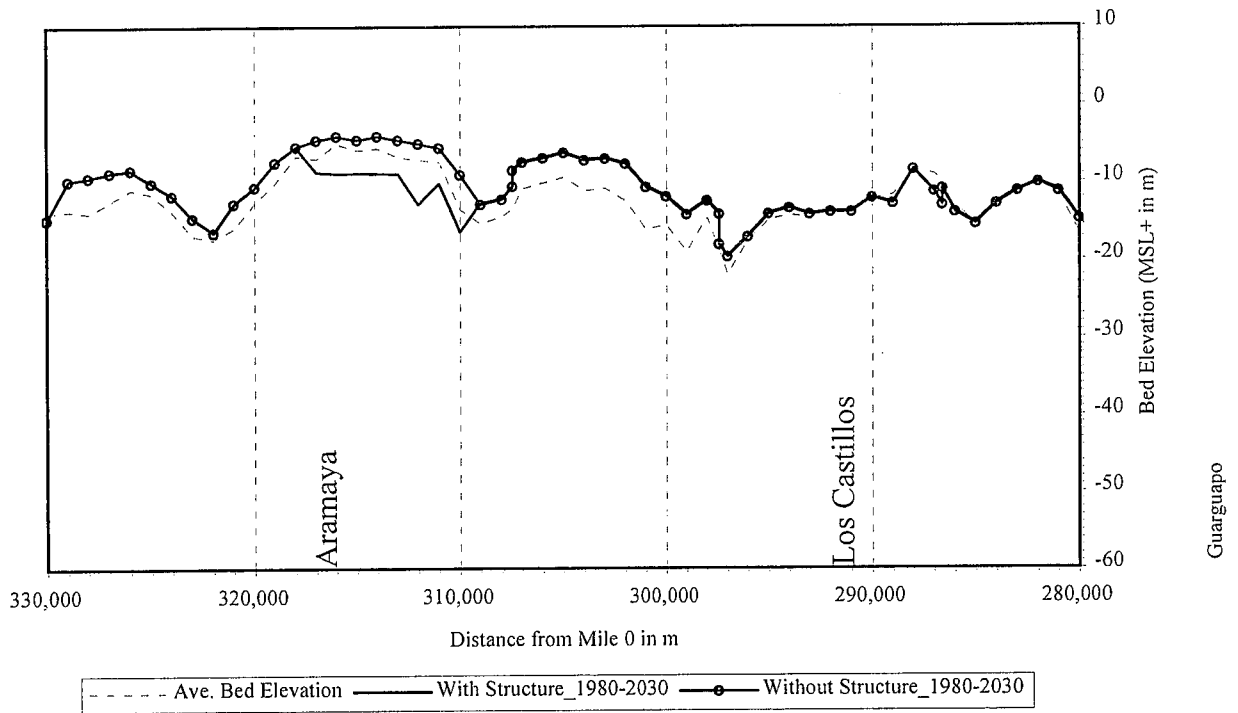


Fig. 6-3-13

Cambio en la Elevación del Lecho y Distribución de Descarga Con la ALT. A1

LONGITUDINAL PROFILE OF BED ELEVATION IN RIO GRANDE CHANNEL
Alt.B1:Discharge Control at Isla Chivera Sur

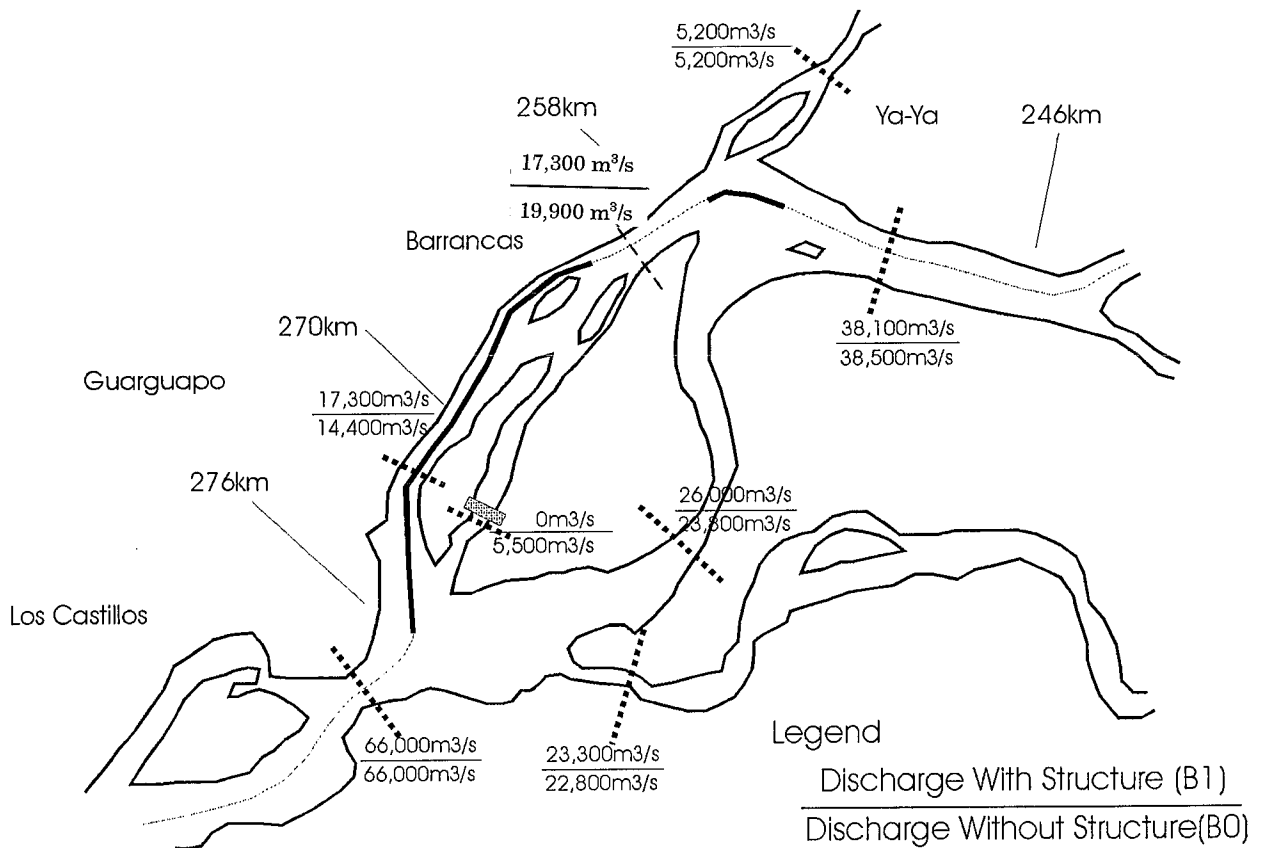
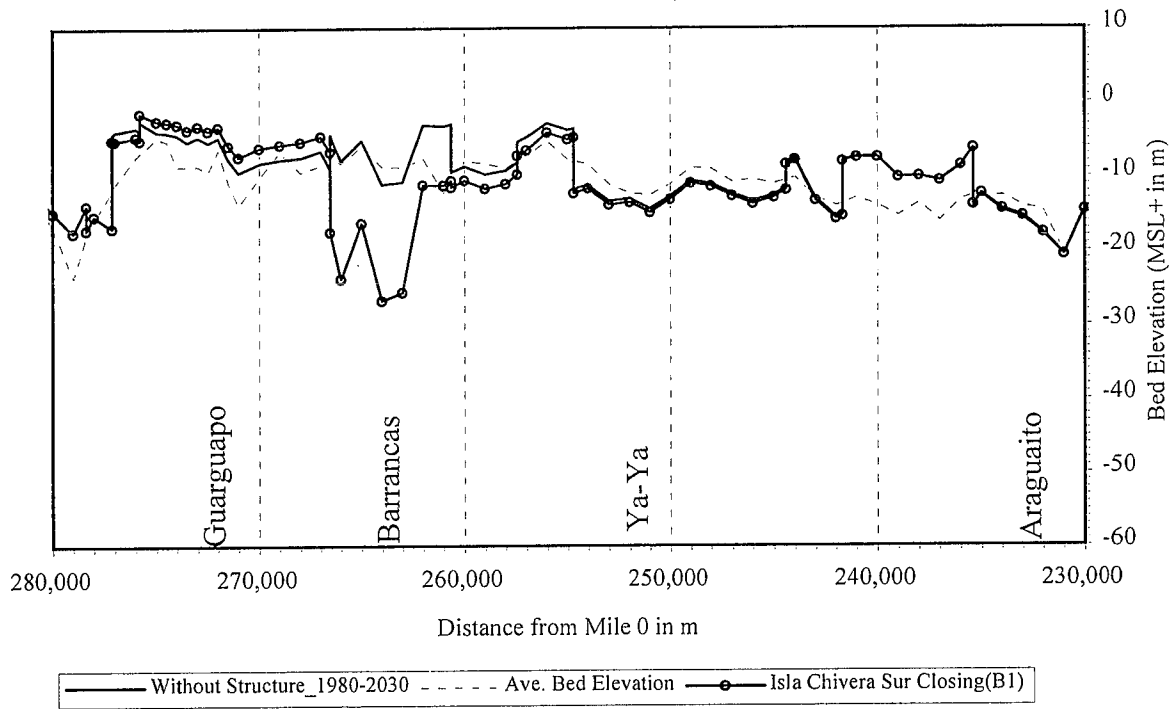


Fig. 6-3-14 Cambio en la Elevación del Lecho y Distribución de Descarga Con la ALT. B1

LONGITUDINAL PROFILE OF BED ELEVATION IN RIO GRANDE CHANNEL
Alt.B2: Discharge Control at Tortola Channel

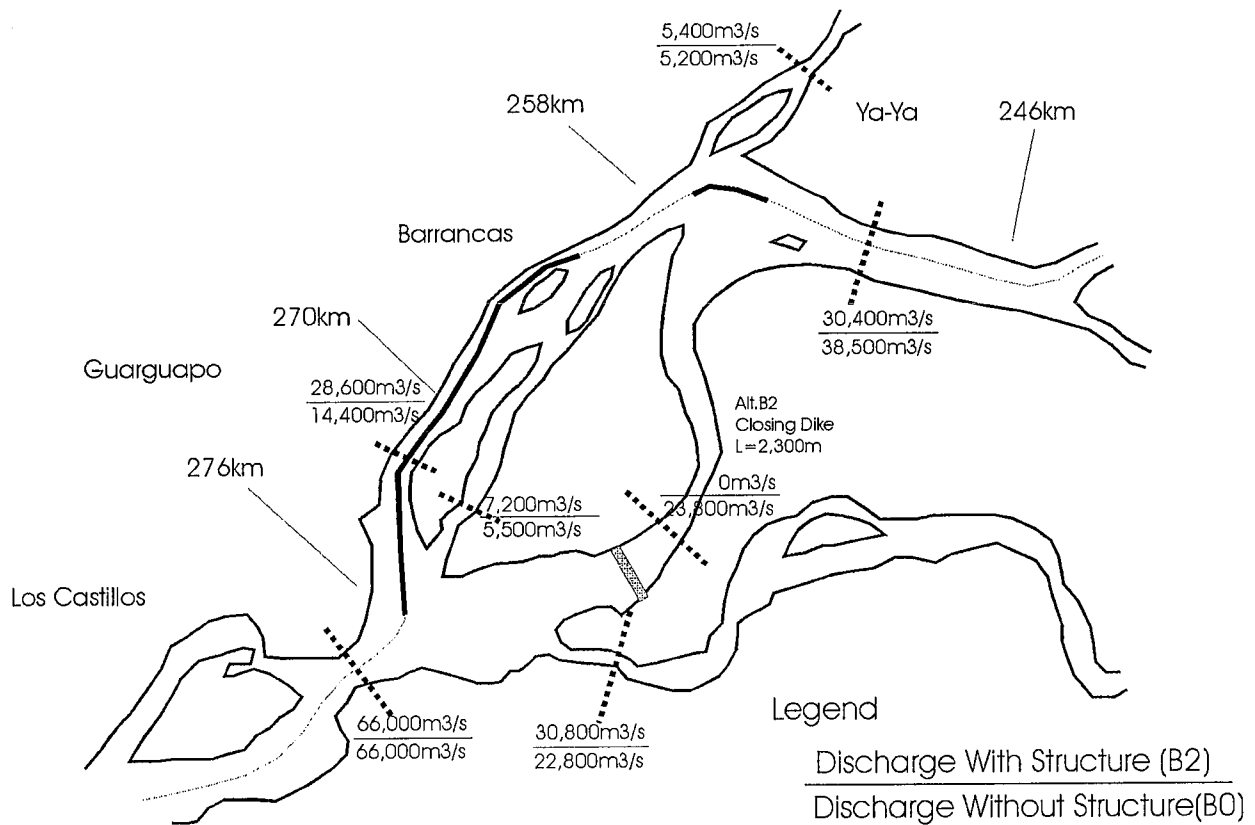
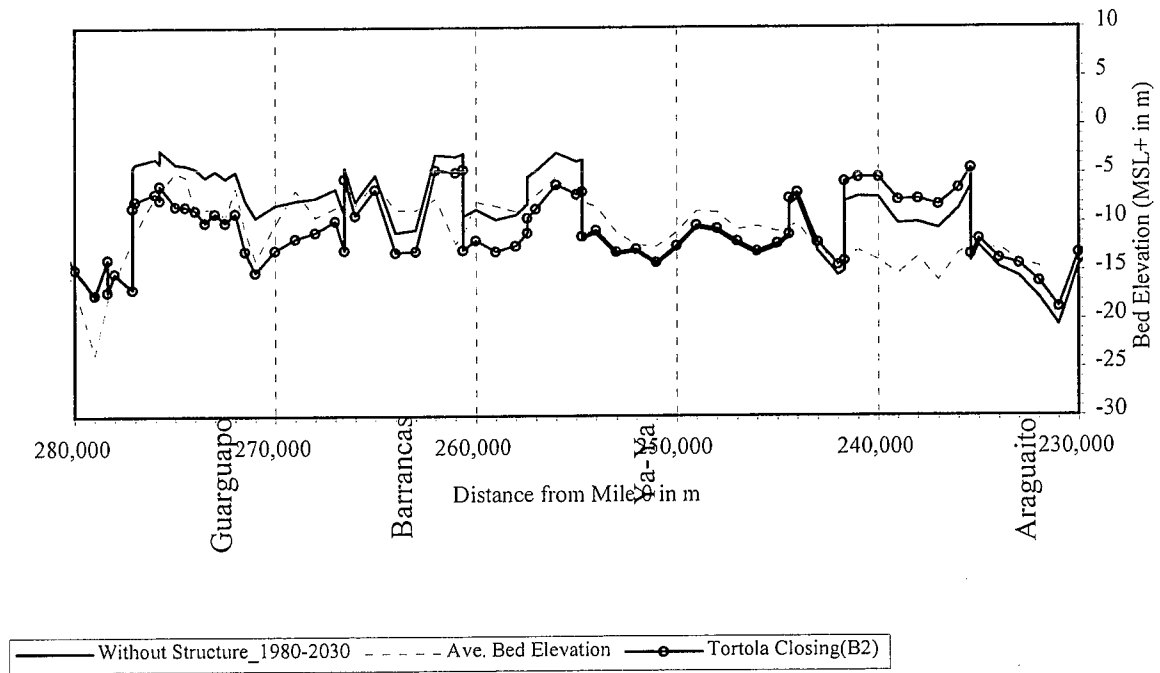
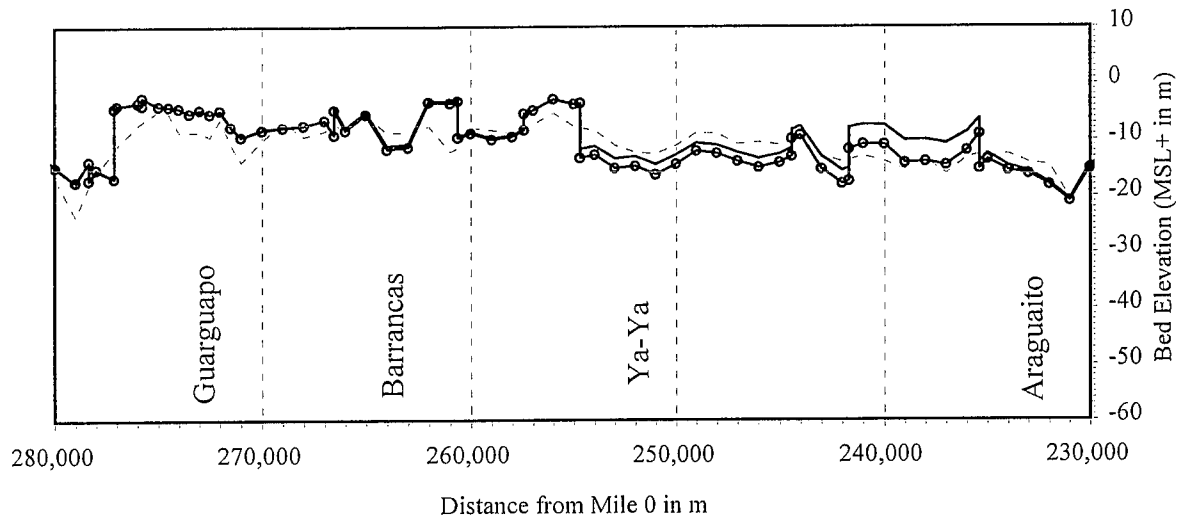


Fig. 6-3-15 Cambio en la Elevación del Lecho y Distribución de Descarga Con la ALT. B2

LONGITUDINAL PROFILE OF BED ELEVATION IN RIO GRANDE CHANNEL

Alt.B3: Discharge Control at Piacoa Channel Entrance



— Without Structure_1980-2030 - - - Ave. Bed Elevation —●— Piacoa Closing(B3)

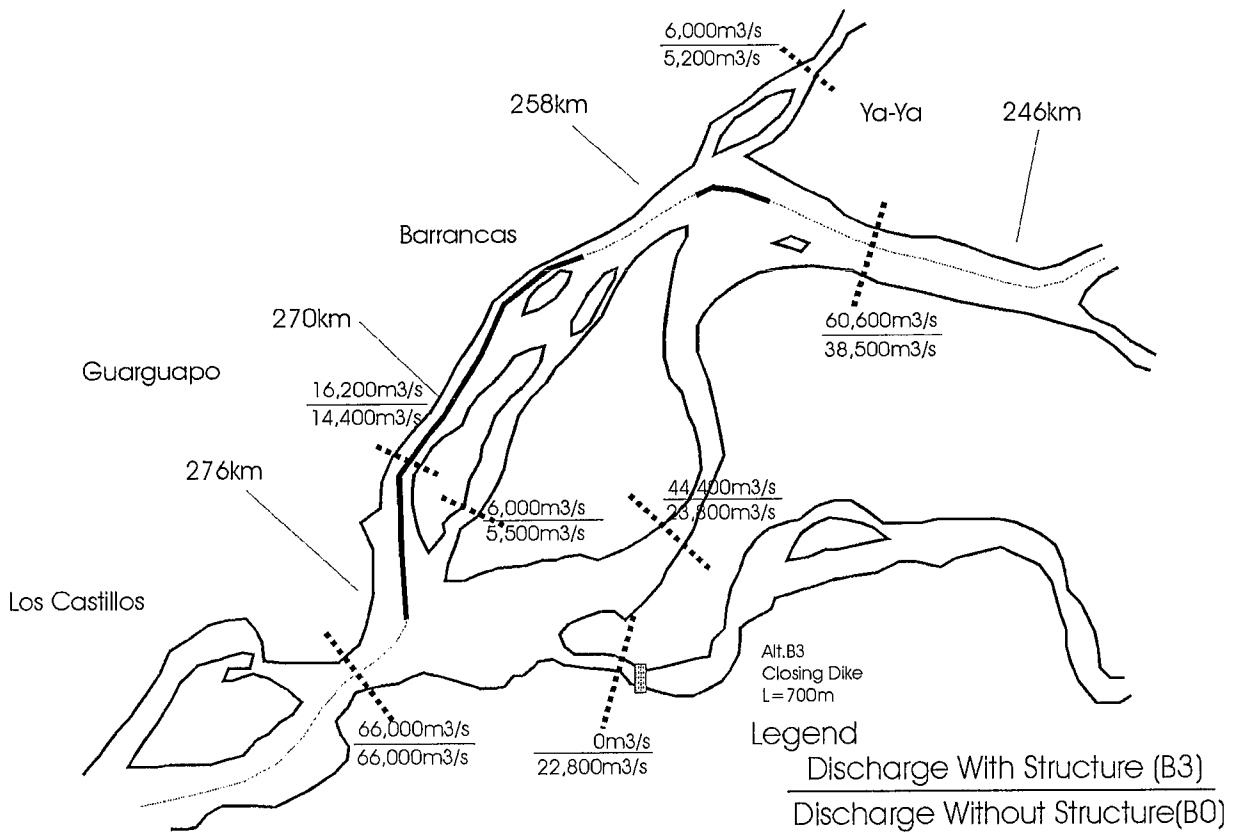


Fig. 6-3-16

Cambio en la Elevación del Lecho y Distribución de Descarga Con la ALT. B3

LONGITUDINAL PROFILE OF BED ELEVATION IN RIO GRANDE CHANNEL
Alt.G1: Discharge Control at Guasina

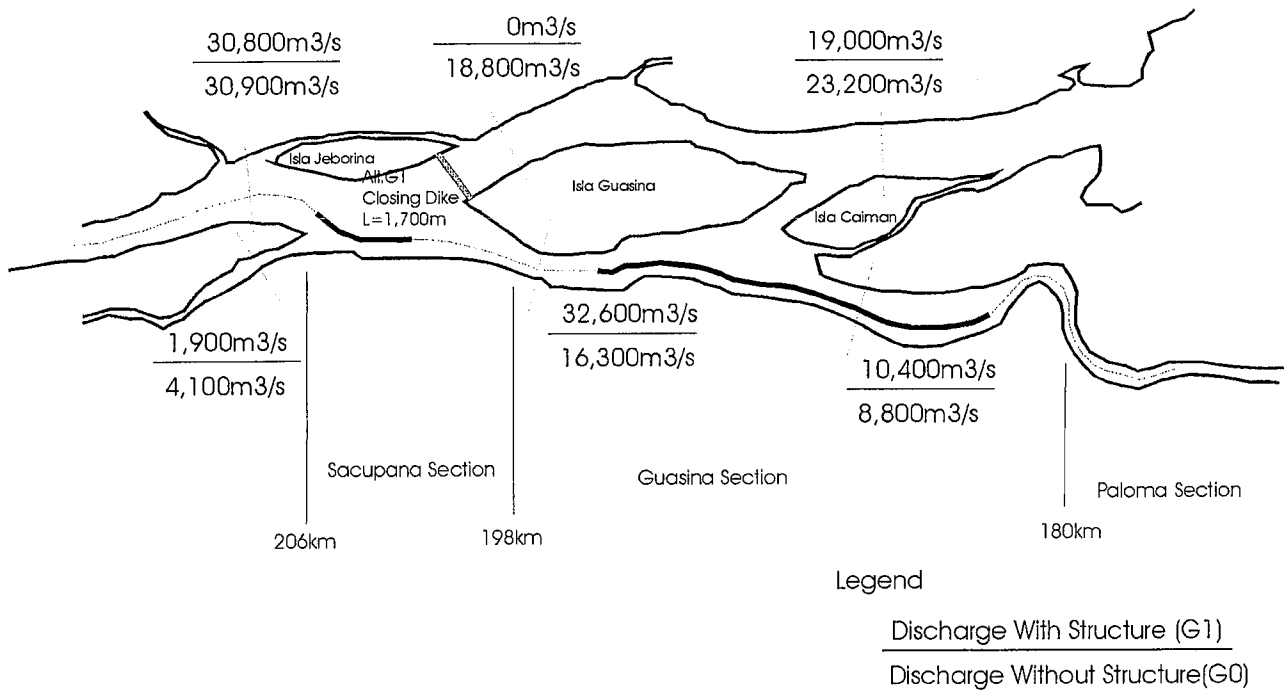
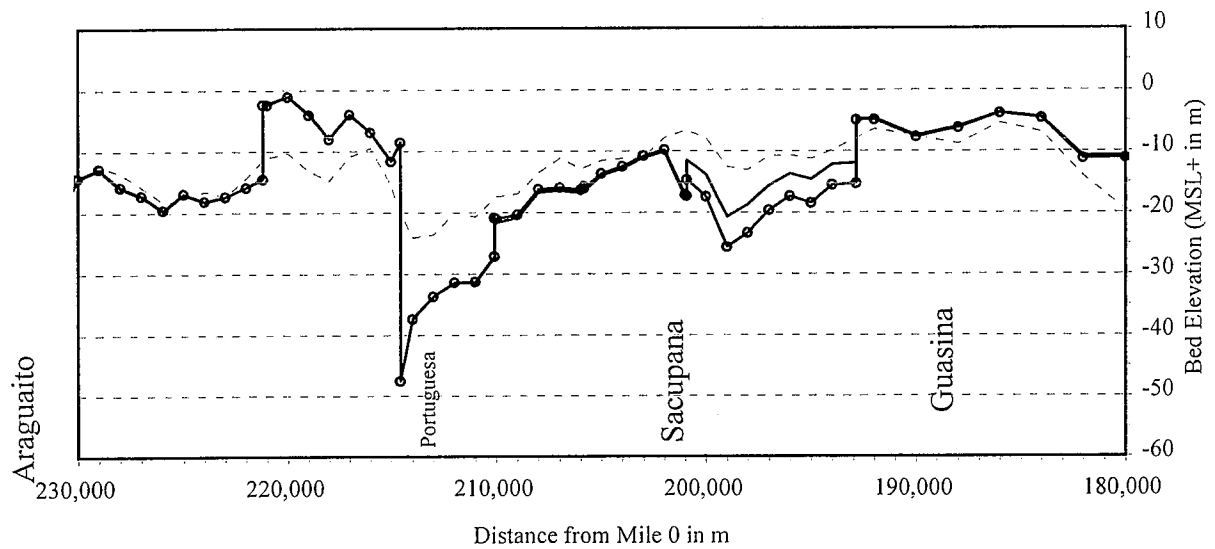


Fig. 6-3-17

Cambio en la Elevación del Lecho y Distribución de Descarga Con la ALT. G1

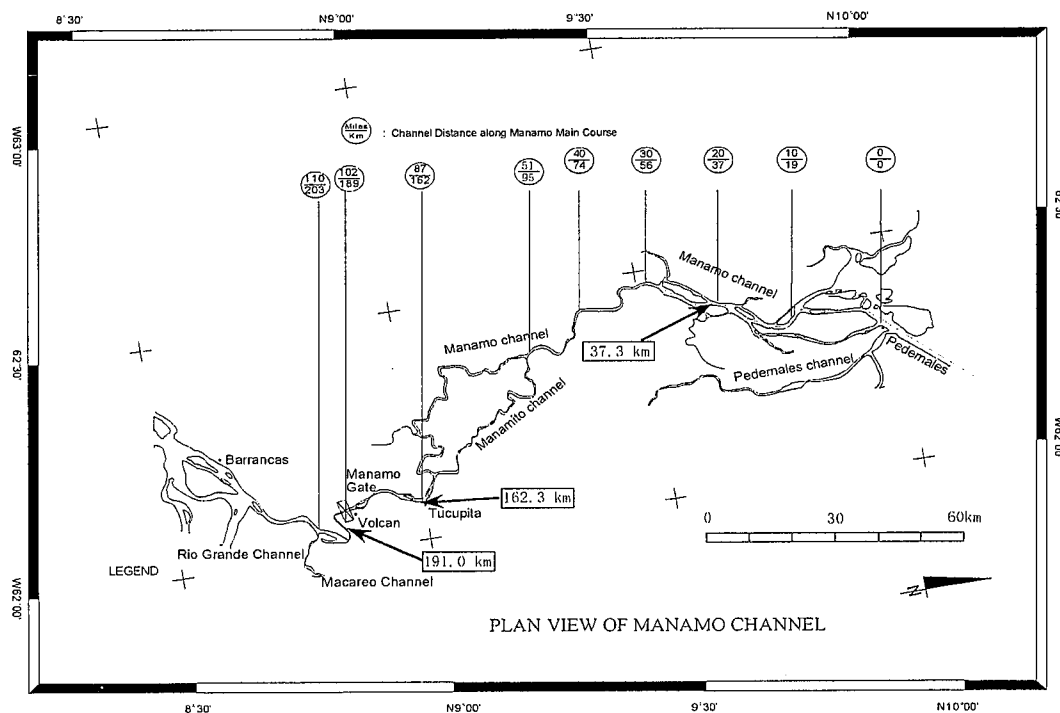
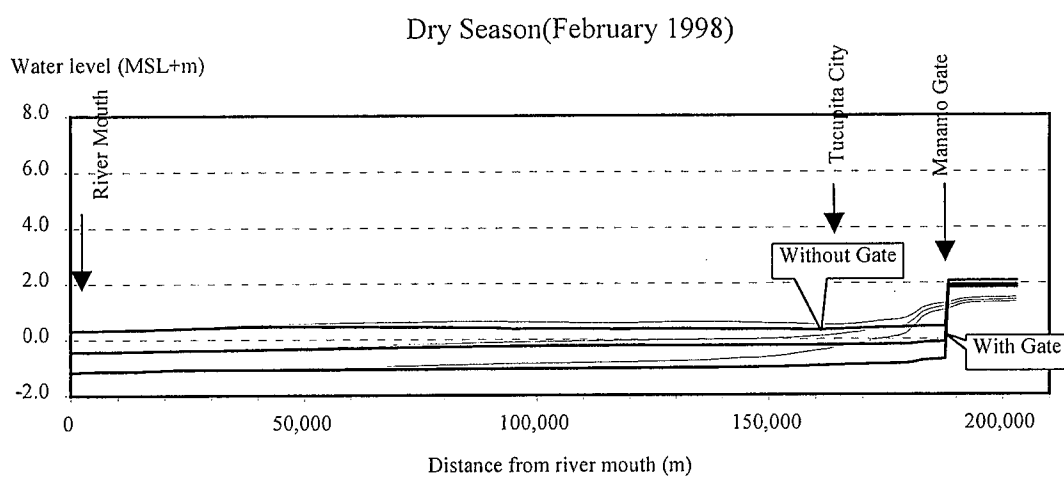
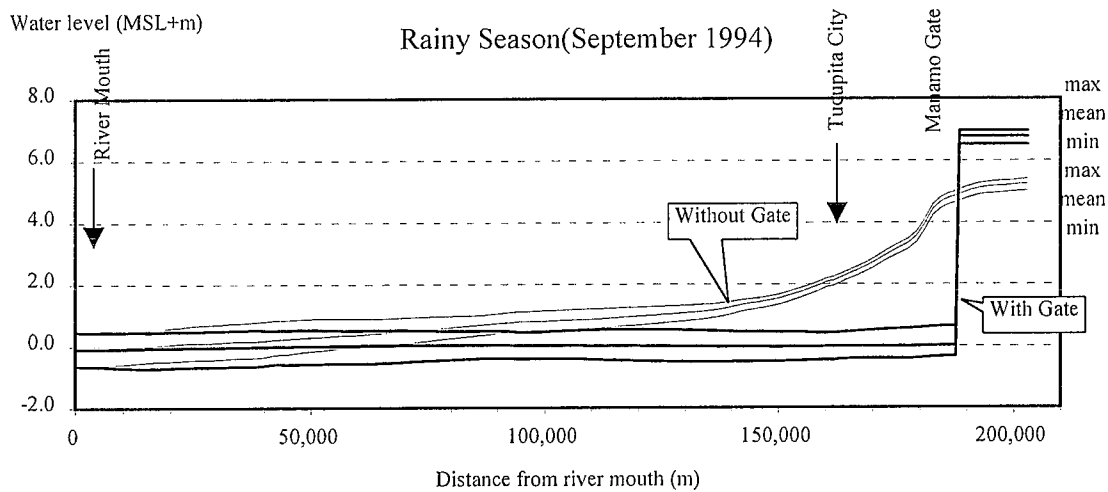
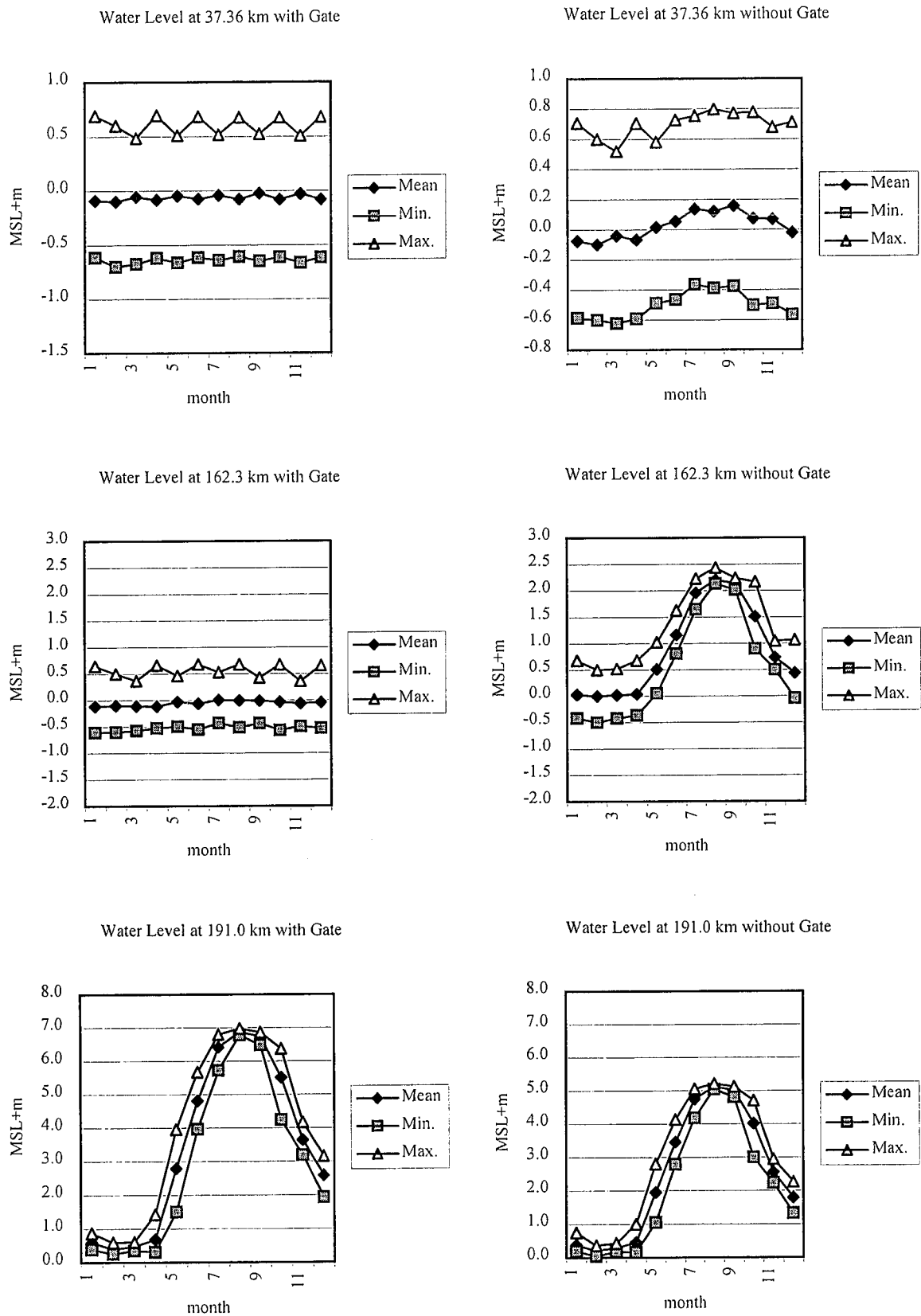


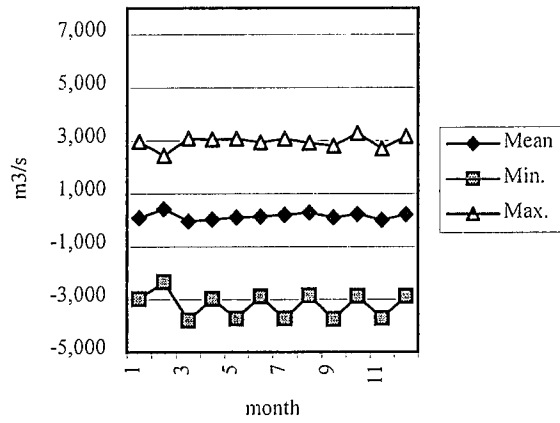
Fig. 6-3-18 Perfiles del Nivel de Agua Simulado en Caño Manamo



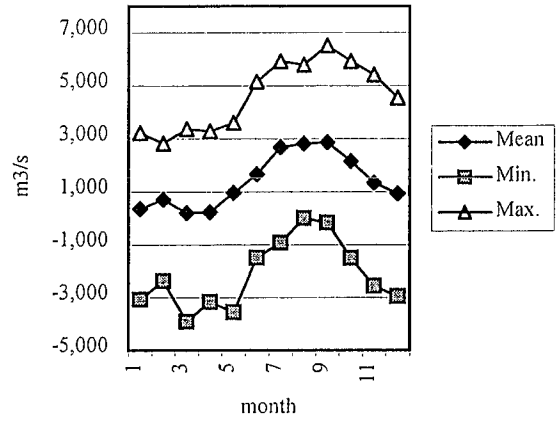
note: Year 1998

Fig. 6-3-19 Nivel de Agua Mensual Simulado en Caño Manamo

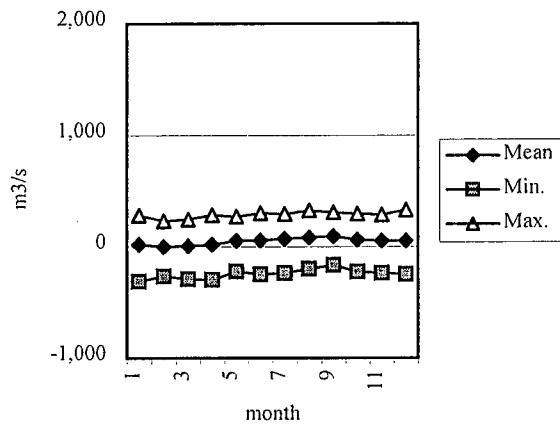
Discharge at 36.64 km with Gate



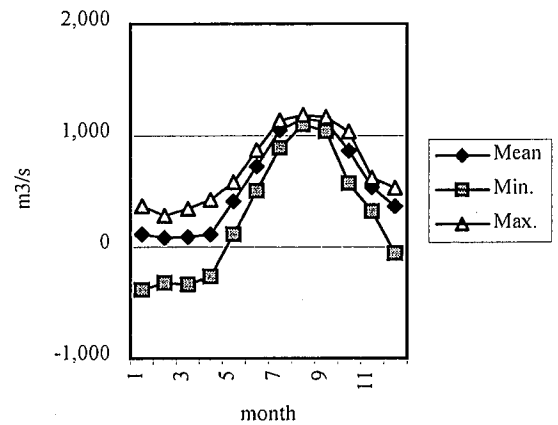
Discharge at 36.64 km without Gate



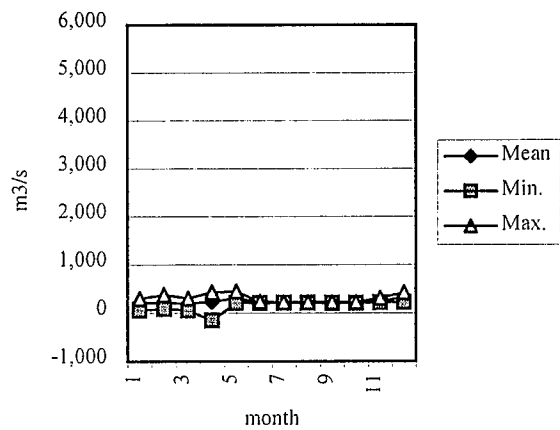
Discharge at 161.2 km with Gate



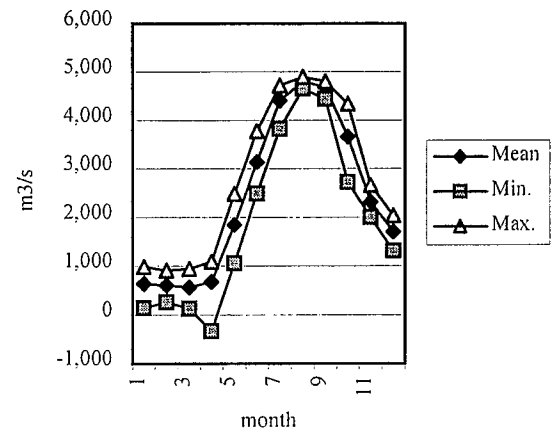
Discharge at 161.2 km without Gate



Discharge at 190.4 km with Gate



Discharge at 190.4 km without Gate



note: Year 1998

Fig. 6-3-20 Descarga Mensual Simulada en Caño Manamo