

RIVER CHANNEL SHAPE CHANGES PROVOKED BY THE ANTROPIC ACTION:
EXAMPLE, PARAIBA DO SUL - BRASIL

TANIA MARIA SAUSEN
MINISTÉRIO DA CIENCIA E TECNOLOGIA - MCT
INSTITUTO DE PESQUISAS ESPACIAIS - INPE
P.O. BOX 515
12201 - S.J. DOS CAMPOS - SP - BRASIL
PHONE (0123)- 229977 - EX 289
TELEX (0123) 3530 - INPE - BR

ABSTRACT

This paper presents a methodology to characterize the changes that happened in the channel shape of the Paraíba do Sul river (between Jacareí e Caçapava) that was provoked by the human action by using ground data, ancient and recent document of the study area, like maps, charts and aerial photographs, from 1953 to 1984. In the channel shape changes analysed, were considered physical and antropic variables (dam build, sand mine, channelization) that are acting on the Paraíba river, as well the river answer to these variables. Land use and geomorphologic maps were done from the cultivated plain and the river, for 1953, 1962, 1973, 1977 and 1984 years. These maps correspond to the periods before and after the dams construction. It was concluded through this study that fluvial processes that are happening at this moment in the Paraíba river, are mainly governed by the human action. Its magnitude, velocity and duration are strongly conditioned by the direct and indirect antropic action on the river channel.