

RIO DE JANEIRO CITY (BRAZIL) - HISTORICAL CENTER EVOLUTION UNDER A CARTOGRAPHIC APPROACH

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The city of Rio de Janeiro is one of the areas that were most privileged cartographically, due to its strategic position as a port and administrative center, ever since its foundation, although initially was not given due importance. Such iconography is translated by both cartographic documents, such as by drawings that depict the seasons and customs completely.

Aware of the quantity and variety of cartographic documentation on this area, arises the interest of conducting a study of the evolution of the area, trying to combine knowledge of the sciences of Cartography, Geography and History, since it was discovered that the research of cartographic documents can operate as an instrument to establish relations certain spatial logic for the human occupation of a specific area over time.

Thus, as a result of developing a line of research of the Laboratory of Cartography (Geocart) of Federal University of Rio de Janeiro (UFRJ), turned to the study of Historical Cartography and spatial analysis through the use of Geoprocessing, was held this research, presenting the purpose of rescuing, through a survey of historical maps and bibliography, elements that can be integrated to a historical and geographical study of the center of Rio de Janeiro.

The main purpose of this research is to develop the evolution of the central area of Rio de Janeiro through its historical and geographical survey-mapping. The study will involve the current districts of the Centro, Saúde, Gamboa, Cidade Nova, Glória, Santo Cristo and part of São Cristóvão. After researches on bibliography and survey-mapping, the work will be done by identifying landmarks and preserved historical sites, which will allow the juxtaposition of historical maps of the area, after processing, based on current mapping.

The project is being supported by FAPERJ through financial aid, equipments and trainees. For the analysis, will be used maps from many periods, since the seventeenth century, until the present day, looking for details and information contained in the documents, trying to find remarkable control points (such as buildings and historical monuments, for example) in order to identify them and correlate them, allowing its geoprocessing. Through these parameters, cartographic products will be drawn up showing the evolution history-space enabling a accomplish of comparative studies, showing the evolution of the factors of amendment of the local landscape and the degree of change, taking into account the historical context of Rio de Janeiro.

In the final stages, Digital Elevation Models (DEM) will be produced from the central area of the city of Rio de Janeiro in different seasons, which would establish comparative elements in the evolution of the landscape of the city. Starting up the study with planimetric and altimetric data from nowadays, which will be created the current DEM, will be added information regarding altimetry, reconstructing elevations that were raised (Morro do Castelo, Santo Antônio, José Dias), and whether removing information about the amount of landfill occurred.