

TÍTULO: GERENCIAMENTO DE INFORMAÇÕES NA ANÁLISE DE IMPACTOS AMBIENTAIS NO LITORAL OESTE DA REGIÃO METROPOLITANA DE FORTALEZA

Mestrando: João Silvio Dantas de Moraes

Orientador: Prof. Dr. Fábio Perdigão Vasconcelos

RESUMO:

O litoral Oeste da Região Metropolitana de Fortaleza – RMF, apresnta aspectos naturais da costa que estão sendo agredidos quase pela implantação inadequada de empreendimtnos urbanos-industriais, em zona litorânea,. Ocupando posições cruciais que impatam negativamente os seus recursos naturais, que em associação com a história evolutiva paleogeográfica desta porção costeira indica uma situação futura de graves problemas ambientais. Embasados nisto e tendo em vista a grande importância econômica da RMF, foi aplicada uma metodologia para gerenciar informações para análise de impactos ambientais nesta porção lo litoral do Ceará, através das modernas técnicas de geotecnologias, buscando determinar suas características físicas e dinâmicas, com seu zoneamento geoambiental e diagnosticar os problemas ai aexistentes, atribuindo medidas mitigadoras, com sugestões para solucioná-los. Para realizar o gerenciamento de informações na análise dos impactos ambientais, fez-se necessário a montagem de uma base de dados numéricos e cartográfica, da situação dos diversos ecossistemas que compõem o seu ambiente, seja área urbanizada ou natural, com a implementação de um sistema de informações computadorizado com capacidade para monitorar e avaliar seus processos de degradações que ocorrem em detrimento das formas de uso e ocupação do solo.

ABSTRACT

The coast West of the Metropolitan Area of Fortaleza (RMF), presents natural aspects of the coast that they are being attacked almost always by the inadequate to implant of urban-industrial enterprises, in zone of coast, occupying crucial positions that impact negatively its natural resources, that in association with the history evolutionary paleogeográfica of this coastal portion indicates a future situation of serious environmental problems. Based in this and tends in view the great economic importance of RMF, a methodology was applied for management information for analysis of environmental impacts in this portion of the coast of Ceará, through the modern geotecnologias techniques, looking for to determine its physical and dynamic characteristics, with its zoning geoambiental and to diagnose the problems oh existent, attributing measured mitigadoras, with suggestions to solve them. To accomplish the management of infõrmation in the analysis of the environmental impacts, he/she made himself necessary the assembly of a numeric and cartographic base of data, of the situation of the several ecosystems that you/they compose its environment (urbanized area and natural)l, with the to implement of a system of information computerized with capacity to monitor and to evaluate its processes of degradations that happen in detriment in the use ways and occupation of the soil. The GIS use supplied information and basic alternatives to subsidize the planning of the maintainable use of the natural resources and it was good to evaluate the degradation levels in the most affected zones, resultants of coming several factors of the human activities. The work was used of the modern geotecnologies techniques, through the GIS tools and remote sensing, in the following way: Automation of the generation of files of basic data. with the creation of all the bases cartographic basic digits (map in the scale 1:100.000, maps geologic, geomorfológico, of declividade, of soils, and of environmental zoning ...), for the attendance of the most several ends; used of GIS and of images of satellites of the type Landsat-ETM7 and Ikonos II- Assembly of a geographical system of information, that modeled and it integrated the data in a common database, with information of the rising of profiles of Beach, visualization of " head offices of Leopold ", with the diagnosis of each impact, that contributed to the activation in the elaboration and expedition of the diagnoses and prognostics about the current and potential use of the natural and socioeconomic resources, in the studied area, what activated this way the identification of the problems caused to the environment and in the indication of measures mitigadoras with the possible solutions.

