

A GEOMORPHOLOGICAL APPROACH
TO AN INTEGRATED SURVEY OF PART OF CALABRIA

By

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ABSTRACT

The object of this integrated survey was to apply geomorphological techniques, to investigate and evaluate the natural resources of a developing area. Therefore quite appropriately Northern Calabria in Southern Italy was selected for such a survey to be carried out.

This project was completed in three stages. First the aerial photographs were examined to obtain preliminary information of the terrain. In the second stage, the field information on form, soil, lithology, hydrological conditions and vegetation of the terrain was collected on a team basis. The final stage of the project was to present a thesis based on the information collected both in the field and in the laboratory.

This thesis is divided into two parts. Part one is composed of, chapters on geomorphology, lithology, soil and land use of the general area of survey, which includes the whole of Northern Calabria. It also includes a chapter on the techniques used in this project. In the last chapter of this part the use of geomorphology in an integrated survey is discussed.

The second part of this thesis is concerned with a small area in Calabria, namely San Marco Argentano East. Here too the chapters on geomorphology, lithology, soil and land use of this area are included. Apart from this general information, a specific problem of this area was tackled: Mass movements and slopes. The last chapter deals with the use of geomorphological approach to a specific problem. Therefore the use of geomorphological techniques in a general survey and a specific purpose survey is evaluated in this thesis.