

UTILIZATION OF JERS 1 SAR AND LANDSAT TM FOR NATURAL HAZARD MONITORING IN SOUTHERN LUZON AREA, PHILIPPINES - CONTRIBUTIONS FOR ASSESSMENT AND DEVELOPMENT

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Abstract:

This paper discusses the geological and geographical framework analysis of the Southern Luzon Area, Philippines, which is on the fast track development at the turn of the century. The study utilizes the application of satellite data images in monitoring and mapping the environment of the area. Significantly, the JERS-1 SAR and LANDSAT TM serve as the bird's eye views of the region wide scenario. The study also focuses on natural hazard monitoring on the active tectonic and volcanic environment while managing the natural resources such as the presence of geothermal field in assessment of regional development. The approach is to come up a significant balance between conserving the natural environment and its resources together with the development relative to the industrial expansion while fully aware of the existing natural hazards. The data and as well the maps would serve as guidelines for city planners, developers, environmental scientists, bureaucrats, economists and the likes.