

Research Brief

A LAHAR DATABASE

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A Lahar Database project was completed by the National Hydraulic Research Center (NHRC) in January 1993, made possible through an R & D grant by the U. P. Engineering Research & Development Foundation, Inc. (UPERDFI) and a donation by the Beta Epsilon Alumni, Inc. of a full-blown 486-microcomputer system dedicated to this purpose.

The main activity for the project was the collection and creation of a database of available lahar-related data and information (for Mt. Pinatubo and other volcanoes) from various concerned public and private entities, such as PHIVOLCS, NDCC, PAGASA, NAMRIA, DPWH-BRS, UP-NIGS, NEDA Region III, and GMA-Channel 7. The final report of the project documents all data and information collected, while other items not physically obtained but are available in other offices are nonetheless indexed. The data and information collected are:

1. Literature - 73 books and reports on lahar and related studies.
2. Rainfall data files -
two (2) synoptic and four (4) agromet PAGASA stations
six (6) PHIVOLCS telemetry stations.
3. Lahar flow data files - seven (7) PHIVOLCS flow sensor stations.
4. Topographic/Thematic Maps
1:50,000 NAMRIA topo maps (25 sheets)
1:250,000 NWRB thematic maps (2 sheets)
5. Lahar Hazard/Propagation Maps (1991 & 1992)
lahar propagation maps - nine (9) river systems
lahar hazard maps - three (3) for 1991; five (5) for 1992
6. Video Tapes - two (2) GMA tapes (2 hrs & 45 mins.)
7. Aerial Photographs - three (3) sets for 1990, 1991, 1992
8. Photographic Files -
four (3) sets of slides for ground shots
two (2) sets of prints for aerial shots
9. Digitized Information (available at NEDA Region III)
110 geographic information systems (GIS) files

The report includes a brief narrative on the volcanic activities of Mt. Pinatubo, and a literature review about the characteristics of Pinatubo lahars and aspects of modelling lahar flow.