



**REPUBLIC OF THE PHILIPPINES**  
**Department of Science and Technology**  
**Philippine Atmospheric, Geophysical and**  
**Astronomical Services Administration (PAGASA)**  
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## Status of Implementation of Program / Project Evaluation and/or Assessment Reports for 2017

Project Title	Status
Digital Rain gauge for Community-Based Early Warning System	<ul style="list-style-type: none"> <li>- Operation of the three Digital Rain Gauges were resumed at the Instrument Research and Development Unit</li> <li>- Revived the old prototype of the digital rain gauge for testing even without the digital display</li> <li>- Surveyed selected areas and drafted MOA for review of the selected municipalities</li> </ul>
Refinement of the Japan Meteorological Agency Storm Surge Model	<ul style="list-style-type: none"> <li>- Simulated Tropical Storm “<i>Vinta</i>”</li> <li>- The output of the model showed a very minimal storm surge ranging from 0.5 meter to 1.1 meters in the provinces of Leyte, Eastern Samar, Dinagat Island, Surigao Del Norte and Surigao del Sur. Said height will not cause flood inundation to coastal areas of said provinces</li> </ul>
GIS-Based Flood Vulnerability Assessment	<ul style="list-style-type: none"> <li>- Graphed Demographic Indicators for social vulnerability assessment</li> <li>- Determined the percentage of flood susceptibility (high, moderate, low) per barangay (flood prone barangays only)</li> <li>- 100% accomplished the land use, land cover, population and soil mapping and overlaid on the produced flood hazard map</li> <li>- Assessed and modified the vulnerability indicators for 4 components (social, economic, environmental, physical) used in the research project</li> <li>- Flood Vulnerability Map 100% accomplished 50% accomplished, drafting of report</li> </ul>
Enhancement of Farm Weather Services and Related Products for Agriculture	<ul style="list-style-type: none"> <li>- Finished computing the daily solar radiation (needed to compute the PET)</li> <li>- Finished the daily (actual and average) and dekadal (actual and average) values of potential evapotranspiration (Penman-Monteith and Hargreaves Method).</li> <li>- Finished the daily rainfall interpolation for the whole country (1981-2010) using ArcGIS.</li> <li>- Finished computing the average number of months with at least 3 consecutive months of more than 200mm rainfall (needed for the analysis of Length of Wet Months)</li> <li>- On-going write ups for the Results and Discussion</li> </ul>
PAGASA Unified Meteorological Information System Disaster Recovery	<ul style="list-style-type: none"> <li>- Installed, tested and inspected the PUMIS Disaster Recovery Project which was held in Cebu City</li> </ul>

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