REPUBLIC OF THE PHILIPPINES
Department of Science and Technology
Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)
Science Garden, Agham Road, Diliman, Quezon City 1100

Status of Implementation of Program / Project Evaluation and/or Assessment Reports for 2016

Project Title	Status
Implementation of the Cloud Seeding Operation (CSO) of the DOST El-Niño Task Force (DELTA)	- Conducted Cloud Seeding Operations over Zamboanga City in collaboration with the Philippine Air Force (PAF), Bureau of Soils and Water Management (BSWM), City Government of Zamboanga through the City of Agriculture Office and the Zamboanga City Water District (ZCWD). - Conducted planning and coordination with partner agencies and collaborators in preparation for Cloud Seeding Operation over Batangas Cloud Seeding Operation, per request from the Batangas Integrated Sugar Planters Multipurpose Cooperative (BISPMPC) through the Sugar Regulatory Commission (SRA) - Distributed nine manual rain gauges to the target area for rainfall validation through the Batangas Integrated Sugar Planters Multipurpose Cooperative (BISPMPC) - Conducted Cloud Seeding Operations over Bohol-Cebu - Conducted Cloud Seeding Operations over Pantabangan Dam - Conducted National Symposium on Cloud Seeding and Mitigation Measures for Climate Variability at the Tagaytay International Convention Center, Tagytay City - Conducted IEC on Post-Cloud Seeding Operation at Pantabangan Dam, Cabanatuan, Nueva Ecija
Severe Weather Forecasting Development Project for Southeast Asia	- PAGASA Technical Working Group was created for the implementation of SWFDP in the Philippines - Developed SWFDP Forecast Verification Tool designed to aid log of observed data for forecast verification during severe weather and ease of data transmission to Central Office. - Presented SWFDP background, SWFDP Forecast Verification Tool and initial assessment of SWFDP products during Typhoon Lando and Typhoon Nona to Visayas PRSD Personnel. - Gathered feedback and suggestions on first hand use of the SWFDP products. - Submitted Progress Report to World Meteorological Organization (WMO) - Conducted SWFDP workshop to selected Southern Luzon-PRSD personnel. - Submitted case studies of PRSDs on severe events (TD Ambo and Mindanao Flooding) to WMO/WD/5

Digital Rain gauge for Community-Based Early Warning System	- Developed an android application to simplify the sending of commands, or mode (correction of system time, and every 15 minutes, hourly or 3-hourly sending of data to the remote digital rain gauge) - Installed one unit of the assembled digital rain gauge at the rooftop of IRDU for testing - Continued the testing of the microcontroller assembled in the PCB from the other two sets of the digital rain gauges - Resumed testing, maintenance and minor revision in the program of the assembled digital rain gauge at the roof top of IRDU and the one installed at Synoptic Station in Science Garden - Resumed the maintenance of the installed Digital Rain Gauge for Community-Based Early Warning System research project at Agromet Station in Science Garden - Prepared the materials to assemble the revised solar charged controller due to intermittent operation of the other digital rain gauge - 98% accomplished activities of the project.
Refinement of the Japan Meteorological Agency Storm Surge Model	- 100% Enhanced the JMA Strom Surge System Application into version 2.0 - Used GEBCO bathymetry in place of the previous ETOPO bathymetry - Issued potential Storm Surge Hazard maps during the passage of Typhoon Ferdie over Batanes Island. - 100% developed the lay-out and the content of the website including information on historical Tropical Cyclones.
Enhancement of the WRF Model *River Basin Rainfall Prediction from PAGASA's Weather Research and Forecasting Numerical Model (PAGASA-WRF) Products*	- Ended on June 2016
GIS-Based Flood Vulnerability Assessment	- 100% surveyed 12 barangays for Flood Hazard Mapping - Archived mapping results - Conducted initial flood hazard mapping
Building Capacity for Weather Forecasts and Warnings to Improve Early Warning of Extreme Weather and Resilience to Climate Extremes following Typhoon Haiyan in the Philippines	- Conducted Climate Change Trainings on selected LGUs - Completed the downscaling of the GCMs of different RCMs - Completed the 25km resolution downscaling of different GCMs for various RCMs - Post-processed both dynamical and statistical climate outputs
Enhancement of Farm Weather Services and Related Products for Agriculture	- Update on Project "Agroclimatic Zoning of the Philippines: **Region 5:** - 100% accomplished data gathering/computation and analysis of the data - 100% - accomplished review of literature - 90% accomplished discussion of results **Region 6:** - 98% accomplished data gathering/computation and analysis of the data - 90% accomplished review of related literature **Regions 2,3, 4B and CAR** - 100% accomplished data gathering/computation of PET and rainfall data using GenStat/Arrangement of data into Excel format - 90% accomplished review of Related Literature

	All remaining regions – Regions 1, NCR, 4B, 7, 8, 9, 10, 11, 12, 13 and ARMM) - 100% accomplished the data gathering/computation of PET and rainfall data using GenStat/Arrangement of data into Excel format **Regions 1,2,3,4A,4B,5,6 and CAR** - 100% accomplished IEC (except 4B), Survey and Validation
Evaluation of different spatial interpolation techniques for operational climate monitoring and prediction in the Philippines	- Analyzed data on different spatial interpolation techniques as applied to climate data in the Philippines