



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

Projects 2016

Project Title	Status
Locally-Funded Project	
1. Telemetered Flood Forecasting and Warning System for 18 Major River Basins in the Philippines	<ul style="list-style-type: none"> • Three (3) Flood Forecasting and Warning Centers completed <ul style="list-style-type: none"> - Abra River Basin (Vigan City) - Tagum-Libuganon River Basin (Tagum City) - Davao River Basin (Davao City) • Four (4) on-going construction of Flood Forecasting and Warning Centers <ul style="list-style-type: none"> - Abulog River Basin (Tuguegarao City-99%) - Ilog-Hilabangan River Basin (Kabankalan City-86%) - Agusan River Basin (Prosperidad City-87%) - Buayan-Malungon River Basin (Gen. Santos City-90%) • Three (3) awarded bids <ul style="list-style-type: none"> - Panay River Basin (Roxas Synoptic Station) - Mindanao River Basin (Cotabato City) - Agus River Basin (Iligan City) • One (1) Failed Bidding <ul style="list-style-type: none"> - Cagayan de Oro and Tagoloan River Basins (El Salvador City) • One (1) Co-location <ul style="list-style-type: none"> - Jalaur RBFFWC is collocated with the Iloilo Radar hence building is not required. • Two Completed Projects for Hydro-Meteorological Monitoring Facilities <ul style="list-style-type: none"> - Tagum-Libuganon River Basin - Cagayan de Oro River Basin • Three (3) on-going installation of Hydro-Meteorological Monitoring Facilities <ul style="list-style-type: none"> - Abra River Basin - Ilog Hilabangan River Basin - Panay River Basin • Hydro-Meteorological Monitoring Facilities delivered to one (1) River Basin <ul style="list-style-type: none"> - Iloilo • Hydro-Meteorological Monitoring Facilities of three (3) River Basins for bidding <ul style="list-style-type: none"> - Davao River Basin - Buayan-Malungon River Basin - Tagoloan River Basin • Three (3) sites to be surveyed for Hydro-Meteorological Monitoring Facilities <ul style="list-style-type: none"> - Abulog River Basin - Agusan River Basin - Mindanao River Basin - Agus River Basin

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Foreign Assisted Projects	
1. Establishment of Communications, Ocean and Meteorological Satellite (COMS) Data Analysis System in the Philippines	<ul style="list-style-type: none"> - Completion Report submitted to NEDA through DOST - Project completed on March 2016
2. Establishment of Early Warning System for Flood and Flashflood in Areas of Cagayan de Oro City – Phase 2	<ul style="list-style-type: none"> - Project completed on January 2016
3. JICA-TCP for Enhancing Capacity on Weather, Observation, Forecasting, and Warning	<ul style="list-style-type: none"> - Drafted Meteorological Instruments Maintenance Guideline and Manual - Conducted Satellite Training (HIMAWARI8, SATAID and Dvorak) by JMA experts - Conducted a Training on the Development of Automation System of Generating Temperature Guidance and Verification for 15 stations - Obtain weather-related disaster records at OCD for the years 2006 to 2015. - Finalized development of Mobile Website - Prepared questionnaire to collect feedback from the 1st Awareness Seminar entitled “Bagyo”
4. Rehabilitation of Equipment for the Project to Strengthen Flood Forecasting and Warning System in the Bicol River Basin	<ul style="list-style-type: none"> - Secured the Deed of Donation for the Agdangan Tower Site - Secured the Municipal Resolution related to the transfer and construction of the Ocampo Rainfall Station to the Municipal Abattoir Compound - Prepared the documents for additional permits that needs to be secured - Conducted coordination meeting with the DEO of DPWH 2nd District of Camarines Sur and DEO of 3rd District of Albay relative to the Balongay and Calzada gauging stations respectively
5. Japan's Non-Project Grant Aid for Provision of Japanese SMEs Products	<ul style="list-style-type: none"> - Conducted series of inspection and inventory of the monitoring equipment in Davao City. - Conducted meeting with the LGUs and other project coordinator - Conducted meeting with Mr. Murao, Project Manager of JICS at PMO-HMD, PAGASA
6. Automation of Flood Early Warning System for Disaster Mitigation in Greater Metro Manila	<ul style="list-style-type: none"> - Conducted kick-off meeting and dispatched preliminary survey team - Conducted coordination meeting and site survey for ARG in Mandaluyong City Hall and Tagaytay City Hall - Trouble shoot KOICA FFWS Server (Pasig-Marikina RB) - Discussion meeting and beneficiary survey – facilitate the visit of the KOICA Evaluation Team for EWS 2 Project
7. Development and Implementation of User-Friendly End-to-End Hydrological Forecast Generation and Application System for Disaster Mitigation in the Philippines	<ul style="list-style-type: none"> - Prepared letter for DPWH District Engineering Offices of Iloilo regarding installation of water level monitoring stations - Prepared Technical Report on verification and Bias Correction of WRF Model Rainfall forecasts in Agno and Pasig-Marikina River basins as part of RIMES Training output. - Prepared shipping documents for equipment importation
8. Resilience and Preparedness towards Inclusive Development (RAPID) program under the Project Climate Twin Phoenix (PCTP)	<ul style="list-style-type: none"> - Conducted Site Scoping and Reconnaissance Survey at the River Basins encompassing the Municipalities of Abuyog, Mahaplag, Javier, Palo and Tacloban in the Province of Leyte and River Basins encompassing the Municipalities of Lawaan, Marabut, Balangiga in the Province of Samar for the flood modeling study under the RAPID Project. - Prepared preliminary inundation maps using MIKE FLOOD - Facilitated procurement process for the purchase of various hydro-meteorological and surveying equipment - Installed monitoring equipment - Continued Training MIKE 11 - Prepared proposed budget for the project expansion which was submitted to the CCC RAPID for approval. - RRI models were run in high-powered desktop computers simulating 2 days of rain

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	<p>and flood at 10-minute intervals. Model covers the selected municipalities of Leyte using a 50-meters resolution and a smaller area with 20-meters resolution</p> <ul style="list-style-type: none"> - HEC-RAS models were run in a high powered virtual machine simulating 4 days of rain covering selected municipalities of Leyte using a 50-meters and 10-meters resolution. Analysis of results were made by the team and agreed to run the model in a finer resolution (5m) to improve the results.
9. Strengthening Capacity of Integrated Data Management of Flood Forecasting and Warning	<ul style="list-style-type: none"> - Conducted series of Project Working Group meetings - Conducted Joint Coordination Committee Meetings
10. Philippine Climate Change Adaptation Project	<ul style="list-style-type: none"> - Conducted Training on Basic GIS and successfully trained the participants on how to use the Manifold System. - Provided data as input to the development of the Climate-Responsive Integrated River Basin Master Plan
11. Scaling-up Risk Transfer Mechanisms for Climate Vulnerable Agriculture-based Communities in Mindanao	<ul style="list-style-type: none"> - Conducted coordination meetings - Participated in Writeshop with WIBI Mindanao PMO and PhilRice to Develop Technical Paper and other knowledge products - Collected production data from government agencies and associations of producers of the four high-value crops; - Collected historical daily and monthly data for rainfall, maximum temperature, minimum temperature, relative humidity, wind speed, sunshine duration, number of rainy days and fitted the data into the models for each of the four high value crops - Analyzed correlation between yield of each of the four crops and rainfall, maximum temperature, and minimum temperature - Collected PET and daily rainfall data for all synoptic and agromet stations and forwarded the data to WIBI team
12. Regional Climate Projections Consortium and Data Facility in Asia and the Pacific	<ul style="list-style-type: none"> - Participated on the Capacity Building Workshop and Team Meeting MISSION UNDER Technical Assistance (TA8350) for Regional Climate Projection and Consortium and Data Facility (RCCDF) conducted by the Asian Development Bank (ADB) - Finalized the report on the Guidelines of Climate Information.