

QUARTERLY PHYSICAL REPORT OF OPERATION
For the Quarter Ending December, 2012

BAR No. 1

Department of Science and Technology (DOST)
Philippine Atmospheric, Geophysical and Astronomical Services Administration

Program / Activity / Project (1)	Performance Measures (2)	Physical Target (3)	Accomplishment (4)	Variance (%) (5)	Remarks (6)
A. PROGRAMS					
MFO 1 Forecast and warning services on weather, flood, climate, astronomy and extreme weather events	1. No. of timely and accurate forecasts on weather, flood and climate 2. No. of timely and accurate warnings on weather, flood and climate (as necessary) 3. No. of astronomical services: No of clients served - No. of information of different astronomical events (near earth objects such as asteroids, meteorites, etc) issued				
P / A / Ps					
A.III.a.1 Number of weather information packages prepared and issued:					
▪ Public weather forecasts		184	184	100	
▪ Shipping forecasts		184	184	100	
▪ Tropical Cyclone		Whenever TC enters PAR	5	-	TS Marce (October 2-5), Ty Nina (October 8-17), TS Ofel (October 22-26), Ty Pablo (December 2-9), TS Quinta (December 25-27)
- Advisories		4	14	>100	
- International Warnings		34	108	>100	
- Severe Weather Bulletin		30	82	>100	

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<ul style="list-style-type: none">- Hourly updates▪ Aviation weather forecasts & flight enroute documentations▪ Gale Warning/Weather Advisories for extreme climate events▪ Forecasts/advisories/warnings/ bulletins disseminated to regular clients and other various clients▪ Special Forecast for Selected provinces (Mt. Pinatubo Lahar affected areas, Mt. Mayon and other selected areas)▪ Special weather forecasts for selected Asian cities/Philippine cities/municipalities▪ Weather maps plotted and analyzed▪ Incorporation of MSL pressure, wind charts, satellite picture in public and shipping weather forecasts▪ Public & shipping weather forecasts and Asian and Philippine cities municipalities incorporated in PAGASA Website▪ Advisory/warning/bulletin incorporated in PAGASA Web page		As need arises	304	-	Airlines utilized their own information meteorological system
		8,740	4,692	54	
		As need arises	142	-	
		76,360	136,274	>100	
		92	92	100	
		92	92	100	
		5,152	5,152	100	
		368	1,671	>100	
		368	368	100	
		140	289	>100	
A.III.a.2					
Number of flood bulletins/advisories/ situationers and hydromet/hydrologic information prepared and issued:					
<ul style="list-style-type: none">▪ Flood bulletin for the telemetered Pampanga, Agno, Bicol and Cagayan (PABC) river basins▪ General flood advisories for the non-telemetered river basins		54	19	54	CAR-8 Reg.I-8; Reg.II-6;
		30	497	>100	

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<ul style="list-style-type: none"> Daily hydrological forecasts for PABC river basins during non-flood watch 		368	557	>100	Reg.III-27; NCR-0.; Reg.IVA-20; Reg.IVB-36; Reg.V-29; Reg.VI-26; Reg.VII-32; Reg.VIII-38; Reg.IX-41; Reg.X-41; Reg.XI-50; Reg.XII-32; Reg.XIII-55; ARMM-45; PRB-3
A.III.a.3					
Number of flood bulletins/warning information for Angat & Pantabangan Dams Operations prepared and issued:					
<ul style="list-style-type: none"> Flood bulletins/warning information 		2	1	50	
<ul style="list-style-type: none"> Station-days of Angat/Pantabangan dam operations real-time (telemetered) hydro data acquired 		300	325	>100	
<ul style="list-style-type: none"> Station-months of Angat/Pantabangan dam operations real-time (telemetered) hydro data primary processed 		15	30	>100	
A.III.a.4					
Number of flood bulletins/warning information for Binga/Ambuklao and Magat Dam Operations prepared and issued:					
<ul style="list-style-type: none"> Flood bulletins/ warning information 		3	3	100	
<ul style="list-style-type: none"> Station-days of Binga/ Ambuklao & Magat dam operations real-time (telemetered) hydro data acquired 		300	345	>100	

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<ul style="list-style-type: none"> Station-months of Binga/ Ambuklao & Magat dam operations real-time (telemetered) hydro data primary processed 		15	57	>100	
A.II.a.1					
No. of Farm Weather Forecasting and Advisory Services provided:		92	92 issued and 10,404 copies disseminated	100	<i>All issuances were posted in the internet</i>
<ul style="list-style-type: none"> Daily Farm Weather Forecasts and Advisories (FWFA) issued 		During occurrence of TC	23 TCWA issued to 2,691 recipients	-	
<ul style="list-style-type: none"> Tropical Cyclone Warnings and Advisories (TCWA) for Agriculture issued 		9	9 issued and 810 copies disseminated.	100	<i>Agri-weather updates aired live daily (except Sun) at DZRM radio.</i>
<ul style="list-style-type: none"> Ten-day Regional Agri-weather Forecasts and Advisories 		-	Non-issuance since it is already incorporated in the Ten-Day Agri-Weather Forecast and Advisories	-	
<ul style="list-style-type: none"> Ten-day Regional Agro-climatic Review and Outlook for Agriculture 					
Number of Special Observations Gathered and Collected:					
<ul style="list-style-type: none"> Ozone observations 		282	203 ozone observations conducted (cloudy skies) and 12 calibrations made	72	<i>Less observation due to cloudy skies</i>
No. of Special Observation Stations Operated and Maintained:					
<ul style="list-style-type: none"> Ozone monitoring station 		1	1	100	
<ul style="list-style-type: none"> VSS Station 		10	10	100	
A.II.b					
Number of Technical In-house Training Courses conducted with number of participants		2 In-house Technical Training Courses conducted to 35 participants:	2 / 51	>100	

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Number of Non-Technical In-house Training Courses conducted with number of participants		2 In-house Non-Technical Training Courses conducted to 50 participants:	1 / 32	50	
Number of scholarships granted/supported:		---	1 Full Scholar (MS Meteorology) Prethika Jayakody Partial Scholar (M.S. in Agricultural Meteorology) Bernadeth Lucillo	-	
Number of Local scholarships/fellowships with number of participants:		5 local / 6 participants	33 local / 96 participants	>100	
Number of Foreign/ fellowships with number of participants		5 foreign / 6 participants	32 foreign / 52 local participants	>100	
Number of Library users assisted		250	70	28	
A.II.d Number of hourly and/or 3-hourly Station-day of PABC real-time (telemetered) rainfall and water level data transmitted to Weather and Flood Forecasting Center (WFFC) and at River Centers for hydrologic (flood) forecasting		3,772 to WFFC 3,588 to River Centers	3,094 to WFFC 3,471 to River Centers	82 97	
A.III.a.5 Number of astronomical data/information services provided:					
• 24-hour time check requests via telephone services		2,250	2,057	91	
• Dissemination of time signals to PAGASA Synoptic Stations		50	68	>100	

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<ul style="list-style-type: none"> Press releases on different astronomical events and activities 		3	3	100	
A.III.b.1					
Number of observing stations operated and maintained:					
<ul style="list-style-type: none"> Surface synoptic stations 		58	58	100	
<ul style="list-style-type: none"> Upper air stations 		6	6	100	
<ul style="list-style-type: none"> Wind Profiler 		1	1	100	
<ul style="list-style-type: none"> Agromet Stations 		24	24	100	
<ul style="list-style-type: none"> Aeronautical stations 		17	17	100	
<ul style="list-style-type: none"> Climat/Rain stations 		88	88	100	
<ul style="list-style-type: none"> MTSDP Relay stations 		2	2	100	
<ul style="list-style-type: none"> Marine Buoy stations 		2	2	100	
<ul style="list-style-type: none"> Automatic Weather Station (AWS) 		150	155	>100	
<ul style="list-style-type: none"> Automatic Rain Gauge (ARG) 		87	87	100	
<ul style="list-style-type: none"> Water Level Monitoring System (WLMS) 		47	47	100	
<ul style="list-style-type: none"> Aero-Meteorological Weather Observation System (AWOS) 		2	2	100	
A.III.b.2					
<ul style="list-style-type: none"> Satellite data acquired from MTSAT, NOAA/FY-ID, Feng Yun and MODIS 		5,336	5,336	100	
<ul style="list-style-type: none"> Images processed, pre-process level 1b to HDF & other 		5,336	5,336	100	
<ul style="list-style-type: none"> Processed set data archived 		5,336	5,336	100	
<ul style="list-style-type: none"> Processed hourly satellite data uploaded to PAGASA website and to Weather Information Network for Media presentation 		2,208	2,208	100	
<ul style="list-style-type: none"> Lectures conducted to students/visitors 		As need arises	4	-	
<ul style="list-style-type: none"> Weather information (weather forecast, warnings & bulletins) disseminated 		3,822	3,822	100	

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A.III.b.3 <ul style="list-style-type: none"> Number of radar observations conducted Number of radar stations operated & maintained A.I.a.2 Number of stations with various weather observing instruments/equipment/facilities repaired, maintained and operated, including vehicles A.I.a.3 Civil works related to the construction/repair and rehabilitation of typhoon-damaged weather stations undertaken MFO 2 Hazard Mapping and Risk Assessment Services P / A / Ps		552	6,578	>100	Hourly observation during inclement weather Baler, Baguio, Subic, Tagaytay, Cebu, Hinatuan, Virac, Tampakan, Aparri - Restoration of damage perimeter fence at WFFC compound.
		10	9	90	
		25 stations / 5 vehicles	43 stations / 14 vehicles	>100	
		Civil works related to the construction/ repair and rehabilitation of typhoon damaged weather stations undertaken			

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A.III.a.2 ▪ Hydromet/hydrologic prediction & frequency analysis & other information provided (Rainfall Intensity Duration Frequency – RIDF) ▪ Station-months of PABC & Metro Manila real-time (telemetered) hydro data primary processed ▪ Station-months of synoptic, hydromet and PABC short-duration hydro data primary processed A.III.b.1 Number of real-time weather observations conducted and reported: • Synoptic observations • Upper-air observations • Agromet observations • Aeronautical observations A.III.c.1 Number of basic and applied research/ studies conducted for application & utilization in improving meteorological, hydrological & space science activities A.III.c.3 Basic and operational researches/studies on tropical cyclones and other natural disaster-causing phenomena and comprehensive hazard/ vulnerability and risk assessment		30	39 stations/sheets to 18 clients	>100	Income Generated: ₱ 15,600.00
		100	81	81	
		400	330	83	
		39,376	38,310	97	
		552	763	>100	
		4,600	4,436	96	
		20,790	25,407	>100	
		4	4	100	
		3	3	100	

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MFO 3 Research and Development	1. No. of R&D projects implemented 2. No. of technical papers prepared vis-à-vis published papers in Int'l. Science Institute (ISI) listed journals 3. No. of Intellectual Property applied / approved 4. No. of R&D collaborative projects with international scientific organization				
P / A / Ps					
A.II.c.1 Number of scientific and technical programs/ conferences/meetings/ projects involved in		5	21	>100	
A.II.c.2 Number of inter-agency/ regional/international/ seminars hosted/conducted/participated in		5	8	>100	
A.III.a.2 Number of flood bulletins/advisories/ situationers and hydromet/hydrologic information prepared and issued:					
• Flood bulletin for the telemetered Pampanga, Agno, Bicol and Cagayan (PABC) river basins		54	19	35	
• General flood advisories for the non-telemetered river basins		30	497	>100	CAR-8 Reg.I-8; Reg.II-6; Reg.III-27; NCR-0.; Reg.IVA-20; Reg.IVB-

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<ul style="list-style-type: none"> Daily hydrological forecasts for PABC river basins during non-flood watch 		341	557	>100	36; Reg.V-29; Reg.VI-26; Reg.VII-32; Reg.VIII-38; Reg.IX-41; Reg.X-41; Reg.XI-50; Reg.XII-32; Reg.XIII-55; ARMM-45; PRB-3
A.III.c.1 Number of basic and applied research/ studies conducted for application & utilization in improving meteorological, hydrological & space science activities		4	4	100	
A.III.c.3 Basic and operational researches/studies on tropical cyclones and other natural disaster-causing phenomena and comprehensive hazard/ vulnerability and risk assessment		3	3	100	
A.III.c.4 Researches/studies on climate and allied fields on Philippine Climatology, on the relationship of agricultural and meteorological parameters for the improvement of climatological services, and analysis of weather and climate situations for the formulation and issuance of farm-weather forecasts, advisories and warnings		2	6	>100	

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11

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A.III.c.2 Number of lectures conducted and participants attending at Weather & Flood Forecasting Center, PAGASA and resource persons provided information on natural hazards Special Tropical Cyclone Reconnaissance Information and Damage Evaluation (STRIDE)		Demand-driven <ul style="list-style-type: none"> Investigation reports Documented damages On site disaster information in support to Forecasting Link with LGUs Assistance to NDRRMC and other disaster concerned institution. 	<ul style="list-style-type: none"> Conducted lectures to 29,851 students & teachers at WFFC Conducted lectures on natural hazards and weather outlook to 1,895 participants at different occasions and venue Briefer at NDRRMC OPCEN, Camp Aguinaldo, Quezon City during the passage of Ty Marce, Ty Nina, TS Ofel, Ty Pablo and TS Quinta Conducted damage survey during the passage of TY Pablo at Davao City, Davao Oriental, Agusan del Sur, Butuan, Cagayan de Oro and Bukidnon on December 5-11. 	-	
A.III.a.2 Briefings to students/visitors on public information/ education drive on flood disaster and other related topic		Demand-driven	239	-	
A.II.a.1 No. of Climatological/Agroclimatic Data/ Information prepared, issued and disseminated: <ul style="list-style-type: none"> Weather certifications 		As need arises	127	-	Income Generated:
<ul style="list-style-type: none"> Monthly Agroclimatic Impact Assessment for Philippine Agriculture 		3	3 publications and 71 copies disseminated	100	₱ 135,300.00

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<ul style="list-style-type: none"> Customized weather information and other publications El Nino/La Nina updates/advisories or Weather Update/Climate Outlook Meteorological/ Climatological/ Agromet data collected and quality controlled Meteorological/Climatological/Agro met data entered, checked and edited Records of solar radiation data extracted <p>No. of Consultancy Services Extended:</p> <ul style="list-style-type: none"> Interviews granted to tri-media <ul style="list-style-type: none"> Lectures/workshops conducted/attended <ul style="list-style-type: none"> Climate forum <ul style="list-style-type: none"> Researchers assisted Court hearings attended <p>A.III.a.5</p> <ul style="list-style-type: none"> Astronomical publications, information / Lunar and Solar certifications 		As need arises	85 sets of publications sold	-	Income Generated: ₱ 346,906.00
		4	3 Weather Situation and Outlook issued and 204 copies disseminated	75	
		3,258 pages	3,239 pages	99	
		199,911 records	211,158 records	>100	
		5,580	5,090	91	
		As requested	12	-	GMA 7, Solar News, PTV 4, ABS-CBN, Manila Bulletin, Radyo ng Bayan
		As need arises	<ul style="list-style-type: none"> 12 lectures with 2,336 participants 12 TWG meetings attended with 516 participants 	-	
		1	<ul style="list-style-type: none"> 2 climate forum conducted with 143 participants 2 Regional Climate Forum to 50 participants 	>100	
		As need arises	170 researchers/visitors	-	Income Generated: ₱ 1,600.00
		As requested	None	-	
		70	46 publications sold and 17 complimentary copies	66	

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<ul style="list-style-type: none"> Dissemination of time of 24-hour telephone time checks to the general public Dissemination of time signals to PAGASA Synoptic Stations Viewers to stargazing & telescoping sessions at U.P. Astronomical Observatory using the 45-cm telescope Visitors to planetarium lectures & shows and mobile planetarium shows on tour in Metro Manila and Luzon Astronomical observations conducted: Sunspot, lunar occultation, meteor showers, lunar eclipses and other celestial body/object Sunshine duration & global radiation data Number of assorted meteorological instruments calibrated for various clients <p>A.III.b.1 Number of extension services:</p> <ul style="list-style-type: none"> Participants to lectures in DPP-IEC related trainings, seminars and workshops Students/visitors at field stations lectured/ briefed on weather/natural disaster prevention/agency services 		2,250	2,057	91	
		50	68	>100	
		200	372 including 70 non-payee visitors accommodated on stargazing/telescoping sessions	>100	Including non-payee Income Generated: ₱ 6,900.00
		Upon request	8,718 persons accommodated including 543 non-payee	-	Income Generated: ₱ 7,500.00
		38	Astronomical observations conducted: <ul style="list-style-type: none"> 61 sunspots 11 lunar occultation 2 meteor shower (geminids) 	>100	
		92	Observed global radiation data 92 days and sunshine duration data 92 days	100	
		Calibration of 40 assorted meteorological instrument for various customers and PAGASA	Repaired and calibrated 34 assorted meteorological instruments for various clients and 36 for PAGASA	85	Income Generated: ₱ 24,205.00
		Demand-driven	17,526	-	
		Demand-driven	27,101	-	

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<ul style="list-style-type: none"> Local/public weather forecasts & warnings disseminated Weather certifications 		30,000	38,176	>100	
		As need arises	409	-	Income Generated: ₱ 455,762.00
P/APs that is common to all MFOs					
A.I.a.1 Support services provided to the different organizational units of the agency		100% support services provided	100% support services provided	100	
A.I.a.4 Number of personnel receiving Magna Carta		Development of the Agency's Human Resources	Development of the Agency's Human Resources	100	
B. PROJECTS					
I. Locally-funded Projects					
a. Construction of Access Road (Guiuan)		--	--	-	
b. Renovation of Building (Guiuan)		--	--	-	
c. Establishment of Climate Data Center		--	--	-	
II. Foreign-assisted Projects					
a. Strengthening of Flood Forecasting and Warning System for Dam Operation (FFWSDO) - JICA Grant TCP			<ul style="list-style-type: none"> Project completed. Conducted the Final Seminar for the project on October 16. 		

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<p>b. Improvement of Flood Forecasting and Warning System for Magat Dam and Downstream Communities (FFWSDO) - NoRAD Grant</p> <p>c. Improvement of the Meteorological Radar System - JICA Radar</p> <p>d. Improvement of Capabilities to Cope with Natural Disasters Caused by Climate Change (JICS)</p>			<p>Submitted the final requirements of Technical Specifications for the purchase of equipment</p> <ul style="list-style-type: none"> • Virac Radar <ul style="list-style-type: none"> - Inaugurated on May 4, 2012. - Operational as of April 2012. • Aparri Radar <ul style="list-style-type: none"> - Operational as of November 2012 - Final acceptance and hand-over is scheduled on January 2013. • Guiuan Radar <ul style="list-style-type: none"> - On-going construction of radar building and procurement of equipment. • Conducted site visit by PAGASA, Consultant, EoJ and reviewing budget of the project for bidding. • The documents are reviewed by the Ministry of Foreign Affairs (MOFA) in preparation for the bidding. 		

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e. Establishment of Early Warning and Response System for Disaster Mitigation in Metro Manila (Pasig-Marikina River Basin) KOICA			<ul style="list-style-type: none"> PAGASA have restored the PAGASA-MMDA link using microwave radio & the data from MMDA-EFCOS system are available at HMD Operation Center. The establishment of water level sensor gauge height & warning assessment levels were done on October 1-11, 2012 and was applied to the present KOICA system set-up. Three different siren sounds applied in public address system are available. PAGASA is coming up with integrated monitoring network of existing and newly completed Flood Early Warning System for the Greater Metro Manila Area. Once the system is implemented, PAGASA in coordination with the LGU's and concerned government agencies will conduct intensive public information drive and flood drills. 		

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