

QUARTERLY PHYSICAL REPORT OF OPERATION

For the Quarter Ending June, 2012

BAR No. 1

Department of Science and Technology (DOST)

Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)

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 P / A / Ps A.III.a.1 Number of weather information packages prepared and issued: ▪ Public weather forecasts ▪ Shipping forecasts ▪ Tropical Cyclone - Advisories - International Warnings - Severe Weather Bulletin - Hourly updates ▪ Aviation weather forecasts & flight enroute documentations ▪ Gale Warning/Weather Advisories for extreme climate 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				
		182	182	100	
		182	182	100	
		Whenever TC enters PAR	4	-	TD Ambo (May 31-June 5), Ty Butchoy (June 14-18), TS Carina (June 20), TS Dindo (June 26-29)
		As need arises	31	-	
		43	51	119	
		35	44	126	
		As need arises	24	-	
		8,645	4,641	54	Automated use of World Area Forecast System (WAFS)
		As need arises	54	-	

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<ul style="list-style-type: none"> 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 		<p>As need arises</p> <p>91</p> <p>91</p> <p>5,096</p> <p>364</p> <p>1,670</p> <p>97</p>	<p>125,184</p> <p>91</p> <p>91</p> <p>5,096</p> <p>364</p> <p>1,670</p> <p>129</p>	<p>-</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>-</p>	
<p>A.III.a.2</p> <p>Number of flood bulletins/advisories/ situationers and hydromet/hydrologic information prepared and issued:</p> <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 		<p>10</p> <p>20</p>	<p>14</p> <p>722</p>	<p>140</p> <p>3,610</p>	<p>Pampanga-8; Agno-2; Bicol-4; Cagayan-0</p> <p>CAR-52 Reg.I-51; Reg.II-34; Reg.III-47; NCR-14; Reg.IVA-31; Reg.IVB-41; Reg.V-35; Reg.VI-39; Reg.VII-34; Reg.VIII-43; Reg.IX-47; Reg.X-49; Reg.XI-57; Reg.XII-50; Reg.XIII-49; ARMM-47; CRB-5</p>
<ul style="list-style-type: none"> Daily hydrological forecasts for PABC river basins during non-flood watch 		364	590	162	

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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 ▪ Station-days of Angat/Pantabangan dam operations real-time (telemetered) hydro data acquired ▪ Station-months of Angat/Pantabangan dam operations real-time (telemetered) hydro data primary processed 		0	0	-	
		300	330	110	
		15	19.5	130	
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 ▪ Station-days of Binga/ Ambuklao & Magat dam operations real-time (telemetered) hydro data acquired • Station-months of Binga/ Ambuklao & Magat dam operations real-time (telemetered) hydro data primary processed 		0	3	-	
		300	304	101	
		15	51	340	
A.II.a.1 No. of Farm Weather Forecasting and Advisory Services provided: <ul style="list-style-type: none"> ▪ Daily Farm Weather Forecasts and Advisories (FWFA) issued ▪ Tropical Cyclone Warnings and Advisories (TCWA) for Agriculture issued ▪ Ten-day Regional Agri-weather Forecasts 		91	91	100	All issuances were posted in the internet
		During occurrence of TC	9 TCWA issued to 936 recipients	-	
		9	9 issued and 270 copies	100	Agri-weather updates aired live

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and Advisories			disseminated		daily (except Sun) at DZRM radio.
▪ Ten-day Regional Agro-climatic Review and Outlook for Agriculture		9	9	100	Emailed to clients upon request.
Number of Special Observations Gathered and Collected:					
▪ Ozone observations		282	196 observations conducted and 12 calibrations made	70	Less observation due to cloudy skies
No. of Special Observation Stations Operated and Maintained:					
• Ozone monitoring station		1	1	100	
• 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 60 participants:	7 / 205	100	
Number of Non-Technical In-house Training Courses conducted with number of participants		2 In-house Non-Technical Training Courses conducted to 50 participants:	8 / 190		
Number of scholarships granted/supported:		—	2 Full Scholars: M.S. in Meteorology Zin Mie Mie Sein (Myanmar); Kanda Durage Sujeewa (Sri Lanka) 1 Partial Scholar: M.S. in Agricultural Meteorology Bernadeth Lucillo	100	
Number of Local scholarships/fellowships with number of participants:		5 local / 6 participants	20 local / 50 participants	100	
Number of Foreign/ fellowships with number of participants		5 foreign / 6 participants	19 foreign / 28 local participants	100	

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Number of Library users assisted		250	536	214	
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		3,549 to WFFC 3,371 to River Centers	3,529 to WFFC 3,843 to River Centers	99 114	
A.III.a.5					
Number of astronomical data/information services provided:					
• 24-hour time check requests via telephone services		2,250	2,068	92	
• Dissemination of time signals to PAGASA Synoptic Stations		50	56	112	
• Press releases on different astronomical events and activities		3	3	100	
A.III.b.1					
Number of observing stations operated and maintained:					
• Surface synoptic stations		58	58	100	
• Upper air stations		6	6	100	
• Agromet Stations		25	25	100	
• Aeronautical stations		17	17	100	
• Climat/Rain stations		88	88	100	
• Automatic Weather Stations (AWS)		160	153	96	
• MTSDP Relay stations		2	2	100	
A.III.b.2					
• Satellite data acquired from MTSAT,		5,278	5,278	100	

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NOAA/FY-ID, Feng Yun and MODIS					
• Images processed, pre-process level 1b to HDF & other		5,278	5,278	100	
• Processed set data archived		5,278	5,278	100	
• Weather information (weather forecast, warnings & bulletins) disseminated		3,822	3,822	100	
• Processed hourly satellite data uploaded to PAGASA website and to Weather Information Network for Media presentation		2,184	2,208	100	
• Lectures conducted to students/visitors		As need arises	32	-	
• Assists researchers in satellite data extraction and interpretation		As need arises	8	-	
A.III.b.3					
• Number of radar observations conducted		546	13,403	2,455	Hourly observation during inclement weather.
• Number of radar stations operated & maintained		10	7	70	Baler, Baguio, Subic, Tagaytay, Cebu, Hinatuan, Virac
A.I.a.2					
Number of stations with various weather observing instruments/equipment/facilities repaired, maintained and operated, including vehicles		34 stations / 5 vehicles	44 stations / 12 vehicles	129 / 240	
A.I.a.3					
Civil works related to the construction/repair and rehabilitation of typhoon-damaged weather stations undertaken		Civil works related to the construction/ repair and rehabilitation of typhoon damaged weather stations undertaken	Conducted boring test in preparation for the construction of new radar building at Iloilo	-	
MFO 2					
Hazard Mapping and Risk Assessment Services	1. No. of hazard maps generated/updated 2. No. of clients				

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<p align="center">P / A / Ps</p> <p>A.III.a.2</p> <ul style="list-style-type: none"> ▪ 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 <p>A.III.b.1</p> <p>Number of real-time weather observations conducted and reported:</p> <ul style="list-style-type: none"> • Synoptic observations • Upper-air observations • Agromet observations • Aeronautical observations <p>A.III.c.1</p> <p>Number of basic and applied research/ studies conducted for application & utilization in improving meteorological, hydrological & space science activities</p>	<ul style="list-style-type: none"> - scientific data / information requests - income generated 	30	19 stations/sheets to 13 clients	43	Income Generated: ₱ 7,600.00
		100	102	102	
		400	731	183	
		38,948	37,529	96	Intermittent signal at Calayan, Basco and Itbayat. Puerto Princesa Upper-air Station conducted twice a day observation on April.
		546	774	142	
		4,550	4,324	95	
		20,790	25,133	121	
		4	4	100	

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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 MFO 3 Research and Development P / A / Ps	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	3	3	75	
A.II.c.1 Number of scientific and technical programs/ conferences/meetings/ projects involved in		5	7	140	
A.II.c.2 Number of inter-agency/ regional/international/ seminars hosted/conducted/participated in		5	11	220	
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		6	14	233	Pampanga-8; Agno-2; Bicol-4; Cagayan-0

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<p>(PABC) river basins</p> <ul style="list-style-type: none"> General flood advisories for the non-telemetered river basins 		20	722	3,610	CAR-52 Reg.I-51; Reg.II-34; Reg.III-47; NCR-14; Reg.IVA-31; Reg.IVB-41; Reg.V-35; Reg.VI-39; Reg.VII-34; Reg.VIII-43; Reg.IX-47; Reg.X-49; Reg.XI-57; Reg.XII-50; Reg.XIII-49; ARMM-47; CRB-5
<ul style="list-style-type: none"> Daily hydrological forecasts for PABC river basins during non-flood watch 		364	590	162	
<p>A.III.c.1</p> <p>Number of basic and applied research/ studies conducted for application & utilization in improving meteorological, hydrological & space science activities</p>		4	4	100	
<p>A.III.c.3</p> <p>Basic and operational researches/studies on tropical cyclones and other natural disaster-causing phenomena and comprehensive hazard/ vulnerability and risk assessment</p>		3	3	100	
<p>A.III.c.4</p> <p>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</p>		1	1	100	
<p align="center">MFO 4</p> <p>Disaster Preparedness, Risk Mitigation and</p>					

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Other Services	1. No. of clients served by of services - participants to IEC lectures - drills - visitors to hydromet/ climatological facilities - visitors to space science and planetarium facilities 2. No. of information packages developed / reproduced 3. No. of information packages disseminated 4. No. of training/seminars/ workshops/ conferences/ fora conducted for various stakeholders - demand-driven 5. No. of climatological hydro meteorological data/ astronomical publications info and weather certifications issued/disseminated and no. of met. instrument tested/ calibrated/ repaired				
P / A / Ps					
A.II.c.3 Number of seminars/ workshops and other disaster preparedness activities attended (as resource persons)		7	12	171	
A.III.c.2 Number of lectures conducted and participants attending at Weather & Flood Forecasting Center, PAGASA and resource		Demand-driven	<ul style="list-style-type: none"> Conducted lectures to 188 students & teachers at WFFC. Conducted lectures on natural 	-	

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persons provided information on natural hazards			hazards and weather outlook to 1,914 participants at different occasions and venue		
Special Tropical Cyclone Reconnaissance Information and Damage Evaluation (STRIDE)		<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. 	Rendered duty at OCD at the NRDDMC Camp Aguinaldo during the passage of TD Ambo, Ty Butchoy and TS Dindo	-	
A.III.a.2 Briefings to students/visitors on public information/ education drive on flood disaster and other related topic		Demand-driven	214	-	
A.II.a.1 No. of Climatological/Agroclimatic Data/ Information prepared, issued and disseminated:		As need arises	53	60	Income Generated: ₱ 56,600.00
<ul style="list-style-type: none"> Weather certifications 		3	3 publications and 69 copies disseminated	100	
<ul style="list-style-type: none"> Monthly Agroclimatic Impact Assessment for Philippine Agriculture Customized weather information and other publications 		As need arises	115 sets of publications sold	-	Income Generated: ₱ 748,479.00
<ul style="list-style-type: none"> Weather Update/Climate Outlook/Advisories 		4	1 La Niña Advisories, 2 Weather Situation and Outlook, 1 Seasonal Climate Outlook (Jan-June 2012) issued and 244 copies	100	
<ul style="list-style-type: none"> Meteorological/ Climatological/ Agromet 		3,258 pages	3,829 pages	118	

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<ul style="list-style-type: none"> data collected and quality controlled Meteorological/Climatological/Agromet data entered, checked and edited 		199,911 records	199,794 records	99	
No. of Consultancy Services Extended: <ul style="list-style-type: none"> Interviews granted to tri-media 		As requested	8	-	Channel 5, Radyo ng Bayan, PIA, Kapisanan ng mga Brodkaster ng Pilipinas, DZMM, ABS-CBN
<ul style="list-style-type: none"> Lectures/workshops conducted/attended Climate forum Researchers assisted Court hearings attended 		As need arises	68 lectures to 4,770 participants	-	
		1	2 climate forum to 167 participants	200	
		As need arises	195	-	
		As requested	No court hearings attended	-	
A.III.a.5					
<ul style="list-style-type: none"> Astronomical publications, information / Lunar and Solar certifications 		As need arises	19 publications sold and 98 complimentary copies disseminated	-	Income Generated: ₱ 680.00
<ul style="list-style-type: none"> Dissemination of time of 24-hour telephone time checks to the general public 		2,250	2,068	92	
<ul style="list-style-type: none"> Dissemination of time signals to PAGASA Synoptic Stations 		50	51	102	
<ul style="list-style-type: none"> Viewers to stargazing & telescoping sessions at U.P. Astronomical Observatory using the 45-cm telescope 		Upon request	257 viewers from 6 schools accomodated on stargazing/telescoping sessions (including non-payee)	-	Income Generated: ₱ 650.00
<ul style="list-style-type: none"> Visitors to planetarium lectures & shows and mobile planetarium shows on tour in Metro Manila and Luzon 		Upon request	163 students and science teachers in 5 schools Free: 1 group	-	Income Generated: ₱ 3,550.00
<ul style="list-style-type: none"> Astronomical observations conducted: Sunspot, lunar occultation, meteor showers, lunar eclipses and other celestial body/object 		30	Astronomical observations: <ul style="list-style-type: none"> 60 sunspots 8 lunar occultation 1 meteor shower with 8 obsns 	237	

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<ul style="list-style-type: none"> Sunshine duration & global radiation data Number of assorted meteorological instruments calibrated for various clients 		91	<ul style="list-style-type: none"> 1 Partial lunar eclipse Observed the Transit of Venus <p>Observed global radiation data 91 days and sunshine duration data 91 days</p>	100	
		Calibration of 40 assorted meteorological instrument for various customers and PAGASA	Repaired and calibrated 100 assorted meteorological instruments for 35 various clients and 72 for PAGASA	250	Income Generated: ₱ 63,430.00 Additional 31 instruments of ASTI were calibrated for free.
A.III.b.1					
Number of extension services:					
<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 Local/public weather forecasts & warnings disseminated Weather certifications 		Demand-driven	18,538	-	
		Demand-driven	7,975	-	
		As need arises	24,358	-	
		As need arises	321	-	Income Generated: ₱ 334,595.00
P/A/Ps 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	

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B. PROJECTS					
I. Locally-funded Projects					
a. Construction of Access Road (Guiuan)			-		
b. Renovation of building (Guiuan)			-		
c. Establishment of Climate Databank 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"> • Programming work and tuning of parameters are on-going but will be completed by August 2012. • Flood run-off and inundation simulation model in Pampanga river basin were developed. • Inventory system was improved; Comprehensive action plans of equipment O&M (Operation and Maintenance Manual for FFWS Equipment) was formulated and implemented. • Utilization status of water gauges in the six (6) dams is 100% operational as of May 2012. 		
b. Improvement of Flood Forecasting and Warning System for Magat Dam and Downstream Communities (FFWSDO) - NoRAD Grant			<ul style="list-style-type: none"> • Field Survey by NIA, PAGASA, and NVE technical personnel on April 29 to May 6, 2012 to finalize site locations of water level and rainfall 		

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c. Improvement of Meteorological Radar System - JICA Grant			<ul style="list-style-type: none"> stations along the Cagayan River and at the upstream areas of Magat Dam. Preparation of the technical specifications of the appropriate water level and rainfall equipment by NVE representatives for open bidding. 		
d. Improvement of Capabilities to Cope with Natural Disasters Caused by Climate Change (JICS)			<ul style="list-style-type: none"> Virac and WFFC are operational on April 2012. Procurement & manufacturing of equipment in Aparri is 87% complete as of April 2012; Installation of equipment will start on June 2012. In Guiuan, procurement and manufacturing of equipment will start on June 2012 to be installed starting April 2013. 		
d. Establishment of Early Warning and Response System for Disaster Mitigation in Metro Manila (Pasig-			<ul style="list-style-type: none"> Review on Technical Specification is on the first week of June - July 2012. Final report on preparation stage is finished. Assistance to employer in contract negotiation is from mid-August to mid-September 2012. 		
			<ul style="list-style-type: none"> PAGASA will restore the PAGASA -MMDA-OCD link using microwave 		

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Marikina River Basin) KOICA			<p>radio targeted o be completed by the end of August 2012.</p> <ul style="list-style-type: none"> • Measurement of discharge to develop rating curves at water level stations, survey of cross sections, establishment of water level sensor gauge height & warning assessment to utilize early warning system component in coordination with the MMDA to be conducted within the next two months. • Three different siren sounds applied in public address system are available. • PAGASA is coming up with integrated monitoring network of existing and newly completed FEWS for the GMMA to be completed by late August or early September 2012. 		

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