

QUARTERLY PHYSICAL REPORT OF OPERATION

For the Quarter Ending June, 2013

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	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		182	182	100	
▪ Shipping forecasts		182	182	100	
▪ Tropical Cyclone		Whenever TC enters PAR	4	-	TS Dante (June 7-10), TS Emong (June 16-20), TD Fabian (June 20-21), TS Gorio (June 27-July1)
- Advisories		As need arises	3		
- International Warnings		As need arises	46		
- Severe Weather Bulletin		As need arises	33		
- Hourly updates		As need arises	434		

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<ul style="list-style-type: none"> ▪ 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 		4,641	4,641	100	
		As need arises	48	-	
		As need arises	210,491	-	
		91	91	100	
		91	91	100	
		2,882	2,882	100	
		1,653	1,653	100	
		364	364	100	
		As need arises	79	-	
	<p>A.III.a.2 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 		10	6	60
		20	576	> 100	CAR: 7; Reg.1: 15; Reg.2: 3; Reg.3: 18; NCR: 57;Reg.4A:

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<ul style="list-style-type: none"> ▪ Daily hydrological forecasts for PABC river basins during non-flood watch 		359	352	98	18; Reg.4B: 26; Reg.5: 32; Reg.6: 34; Reg.7: 23; Reg.8: 31; Reg.9: 65; Reg.10: 48; Reg.11: 41; Reg.12: 55; Reg.13: 45; ARMM: 56; PRB-1; ARB-0; BRB-1 & CRB-0
<p>A.III.a.3</p> <p>Number of flood bulletins/warning information for Angat & Pantabangan Dams Operations prepared and issued:</p> <ul style="list-style-type: none"> ▪ Flood bulletins/warning information 		0	0	-	
<ul style="list-style-type: none"> ▪ Station-days of Angat/Pantabangan dam operations real-time (telemetered) hydro data acquired 		300	293	98	
<ul style="list-style-type: none"> ▪ Station-months of Angat/Pantabangan dam operations real-time (telemetered) hydro data primary processed 		15	30	> 100	
<p>A.III.a.4</p> <p>Number of flood bulletins/warning information for Binga/Ambuklao and Magat Dam Operations prepared and issued:</p> <ul style="list-style-type: none"> ▪ Flood bulletins/ warning information 		0	0	-	
<ul style="list-style-type: none"> ▪ Station-days of Binga/ Ambuklao & Magat dam operations real-time (telemetered) hydro data acquired 		300	358	> 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 <p>A.II.a.1 No. of Farm Weather Forecasting and Advisory Services provided:</p> <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 and Advisories ▪ Ten-day Regional Agro-climatic Review and Outlook for Agriculture <p>Number of Special Observations Gathered and Collected:</p> <ul style="list-style-type: none"> ▪ Ozone observations <p>No. of Special Observation Stations Operated and Maintained:</p> <ul style="list-style-type: none"> • Ozone monitoring station • VSS Station <p>A.II.b Number of Technical In-house Training Courses conducted with number of participants</p>		20	57	> 100		
		91	91 issued to 10,647 recipients	100		All issuances were posted in the internet
		During occurrence of TC	5 TCWA issued and 100 copies disseminated	-		
		9	9 issued and 810 copies disseminated	100	Agri-weather updates aired live daily (except Sun) at DZRM radio.	
			9	9 issued and 810 copies disseminated	100	Emailed to clients upon request.
			299	238 Ozone observations conducted and 12 calibrations	80	Less observation due to cloudy skies
			1	1	100	
			10	10	100	
			2 In-house Technical Training Courses conducted to 60 participants:	12 / 305	> 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:	2 / 50	> 100	
Number of scholarships granted/supported:		--	4 Scholars Assisted 3 Full Scholars: M.S. in Meteorology Hendawitharana Gayana (Sri Lanka), John Manalo (Philippines), John Ariel T. Rojas (Philippines) 1 Partial Scholar: M.S. in Agricultural Meteorology Bernadeth Lucillo	-	
Number of Local scholarships/fellowships with number of participants:		5 local / 6 participants	12 local / 42 participants	> 100	
Number of Foreign/ fellowships with number of participants		5 foreign / 6 participants	22 foreign / 32 local participants	> 100	
Number of Library users assisted		250	292	> 100	
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		3,550 to WFFC	5,315 to WFFC	> 100	
		3,825 to River Centers	5,009 to River Centers	> 100	

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A.III.a.5					
Number of astronomical data/information services provided:					
• 24-hour time check requests via telephone services		2,250	2,254	> 100	
• Dissemination of time signals to PAGASA Synoptic Stations		50	109	> 100	
• 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	
• Marine Buoy		2	2	100	
• Automatic Rain Gauge (ARG)		187	187	100	
• Water Level Monitoring System (WLMS)		47	47	100	
• Aero-Meteorological Weather Observation System (AWOS)		2	2	100	
A.III.b.2					
• Satellite data acquired from MTSAT, NOAA/FY-ID, Feng Yun and MODIS		5,278	5,278	100	

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<ul style="list-style-type: none"> • Images processed, pre-process level 1b to HDF & other • Processed set data archived • Weather information (weather forecast, warnings & bulletins) disseminated • Processed hourly satellite data uploaded to PAGASA website and to Weather Information Network for Media presentation • Lectures conducted to students/visitors • Assists researchers in satellite data extraction and interpretation <p>A.III.b.3</p> <ul style="list-style-type: none"> • Number of radar observations conducted • Number of radar stations operated & maintained <p>A.I.a.2</p> <p>Number of stations with various weather observing instruments/equipment/facilities repaired, maintained and operated, including vehicles</p> <p>A.I.a.3</p> <p>Civil works related to the construction/repair and rehabilitation of</p>		5,278	5,278	100	
		5,278	5,278	100	
		3,822	3,822	100	
		2,184	2,184	100	
		As need arises	5	-	
		As need arises	261	-	
		546	6,944	> 100	
		10	10	100	
		34 stations / 5 vehicles	34 stations / 18 vehicles	> 100	
			Civil works related to the construction/ repair and	<ul style="list-style-type: none"> • Conducted ocular inspection for the rehabilitation of station 	-

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MFO 3					
Research and Development	<ol style="list-style-type: none"> 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	20	> 100	
A.II.c.2 Number of inter-agency/ regional/international/ seminars hosted/conducted/participated in		5	5	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 		10	6	60	

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<ul style="list-style-type: none"> • General flood advisories for the non-telemetered river basins • Daily hydrological forecasts for PABC river basins during non-flood watch <p>A.III.c.1 Number of basic and applied research/ studies conducted for application & utilization in improving meteorological, hydrological & space science activities</p> <p>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</p> <p>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</p>		20	576	> 100	CAR: 7; Reg.1: 15; Reg.2: 3; Reg.3: 18; NCR: 57;Reg.4A: 18; Reg.4B: 26; Reg.5: 32; Reg.6: 34; Reg.7: 23; Reg.8: 31; Reg.9: 65; Reg.10: 48; Reg.11: 41; Reg.12: 55; Reg.13: 45; ARMM: 56; PRB-1; ARB-0; BRB-1 & CRB-0
		359	352	98	
		4	4	100	
		3	3	100	
		4	7	> 100	

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<p>A.II.c.3 Number of seminars/ workshops and other disaster preparedness activities attended (as resource persons)</p>		7	11	> 100	
<p>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</p>		Demand-driven	<ul style="list-style-type: none"> ▪ Conducted lectures to 1,309 students & teachers at WFFC. ▪ Conducted lectures on natural hazards and weather outlook to 2,744 participants at different occasions and venue. 	-	
<p>Special Tropical Cyclone Reconnaissance Information and Damage Evaluation (STRIDE)</p>		<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 the first meeting of STRIDE on April 4 re: composition of Team Leaders and its members for ease dispatching when Tropical Disturbance occurs. ▪ Conducted survey on reported Tornado incident at Paniqui, Tarlac on May 6. ▪ Participated in the Antenna Assembly for the portable Meteorological Satellite. 	-	
<p>A.III.a.2 Briefings to students/visitors on public information/ education drive on flood disaster and other related topic</p>		Demand-driven	750	-	

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A.II.a.1					
No. of Climatological/Agroclimatic Data/ Information prepared, issued and disseminated:					
• Weather certifications		As need arises	45	-	Income Generated: ₱ 46,500.00
• Monthly Agroclimatic Impact Assessment for Philippine Agriculture		3	3 publications and 75 copies disseminated	100	
• Customized weather information and other publications		As need arises	105 sets of publications sold	-	Income Generated: ₱ 467,772.00
• Weather Update/Climate Outlook/Advisories		4	3 Weather Situation and Outlook issued and 204 copies disseminated	75	
• Meteorological/ Climatological/ Agromet data collected and quality controlled		3,030 pages	3,214 pages	> 100	
• Meteorological/Climatological/Agromet data entered, checked and edited		192,450 records	311,585 records	> 100	
No. of Consultancy Services Extended:					
• Interviews granted to tri-media		As requested	14	-	Radyo ng Bayan, PTV 4, Solar TV
• Lectures/workshops conducted/attended		As need arises	<ul style="list-style-type: none"> • 21 lectures to 1,492 participants • 30 TWG Meetings attended with 610 participants 	-	
• Climate forum		3	2 climate forum conducted; April 17 (Legazpi City) with 102 participants and April 18 (Irosin) with 95 participants	67	

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<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 • 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 • Accommodation of visitors to planetarium lectures & shows at Central Office (Demand-driven) • Mobile Planetarium lectures/stargazing/telescoping on Tour to 8 schools in Luzon (as per request) • Astronomical observations conducted: Sunspot, lunar occultation, meteor showers, lunar eclipses and other celestial body/object 		As need arises	225	-	
		As requested	No court hearings attended	-	
		As need arises	16 publications sold and 23 complimentary copies disseminated	-	
		2,250	2,254	> 100	
		50	109	> 100	
		Upon request	9 viewers and 182 non-payee accommodated on stargazing/telescoping sessions (including non-payee)	-	Income Generated: ₱ 225.00
		Upon request	100 visitors and 66 non-payee accommodated for planetarium lectures/shows on Astronomy	-	Income Generated: ₱ 2,500.00
	Upon request	None	-		
	30	Astronomical observations: <ul style="list-style-type: none"> ▪ 69 sunspots ▪ 4 lunar occultation ▪ 2 meteor shower observed (Lyrids and Eta Aquarids) ▪ Documented the partial solar eclipse on May 10 at Gen. Santos and Davao City. 	> 100		

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<ul style="list-style-type: none"> • 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 • Local/public weather forecasts & warnings disseminated • Weather certifications <p align="center">P/A/Ps that is common to all MFOs</p> <p>A.I.a.1 Support services provided to the different organizational units of the agency</p>		91	Observed global radiation data 91 days and sunshine duration data 91 days	100	Income Generated: ₱ 83,020.00 Additional 45 instruments of ASTI were calibrated for free.
		Calibration of 40 assorted meteorological instrument for various customers and PAGASA	Repaired and calibrated 118 assorted meteorological instruments for various clients and 35 for PAGASA	> 100	
		Demand-driven	12,095	-	
		Demand-driven	10,054	-	
		As need arises	156,872	-	
	As need arises	425	-	-	Income Generated: ₱ 472,196.00
		100% support services provided	100% support services provided	100	

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<p>A.I.a.4 Number of personnel receiving Magna Carta</p> <p>B. PROJECTS</p> <p>I. Locally-funded Projects</p> <p>a. Telemetered Flood Forecasting and Warning System for 13 of 18 Major River Basins in the Philippines</p> <p>II. Foreign-assisted Projects</p> <p>a. Improvement of Meteorological Radar System (JICA)</p> <p>b. Improvement of Capabilities to Cope with Natural Disasters Caused by Climate Change (JICS)</p>		<p>Development of the Agency's Human Resources</p>	<p>Development of the Agency's Human Resources</p> <ul style="list-style-type: none"> • Surveyed the sites of the Flood Forecasting Centers in Mindanao. • Finalized the TOR of FFWC for 3 sites: Tagum, Davao del Norte, General Santos City and Cotabato City. • Handing over is scheduled on September 2013. • Signing of concurrence by PAGASA on the Tender Documents. • Confirmation of the Right of Ways (ROWs) for new sites. • Submission of the requirement of the Environmental Management Bureau (EMB), Region V on the application of the Certificate of Non-Coverage (CNC). 	100	

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