

# QUARTERLY PHYSICAL REPORT OF OPERATION

For the Quarter Ending September, 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)
<b>A. PROGRAMS</b>					
<b>MFO 1</b>					
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				
<b>P / A / Ps</b>					
<b>A.III.a.1</b>					
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	8	-	TS Enteng (July 16-17), TD Ferdie (July 20-21), Ty Gener (July 28-August 2), TS Helen (Aug.12-16), Ty Igme (Aug. 19-28), Ty Julian (Aug. 23-26), Ty Karen (Sept. 11-15), Ty Lawin (Sept. 20-29)
- Advisories		10	28	-	
- International Warnings		96	142	> 100	
- Severe Weather Bulletin		110	130	> 100	
- Hourly updates		As need arises	355	-	
▪ Aviation weather forecasts & flight enroute documentations		8,740	4,692	54	Automated use of World Area Forecast System (WAFS)

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<ul style="list-style-type: none"> <li>Gale Warning/Weather Advisories for extreme climate events</li> <li>Forecasts/advisories/warnings/ bulletins disseminated to regular clients and other various clients</li> <li>Special Forecast for Selected provinces (Mt. Pinatubo Lahar affected areas, Mt. Mayon and other selected areas)</li> <li>Special weather forecasts for selected Asian cities/Philippine cities/municipalities</li> <li>Weather maps plotted and analyzed</li> <li>Incorporation of MSL pressure, wind charts, satellite picture in public and shipping weather forecasts</li> <li>Public &amp; shipping weather forecasts and Asian and Philippine cities municipalities incorporated in PAGASA Website</li> <li>Advisory/warning/bulletin incorporated in PAGASA Web page</li> </ul>		As need arises	96	-	
		76,360	180,690	> 100	
		92	92	100	
		92	92	100	
		5,152	5,152	100	
		368	1,671	> 100	
		368	368	100	
		209	396	-	
<b>A.III.a.2</b>					
Number of flood bulletins/advisories/ situationers and hydromet/hydrologic information prepared and issued:					
<ul style="list-style-type: none"> <li>Flood bulletin for the telemetered Pampanga, Agno, Bicol and Cagayan (PABC) river basins</li> <li>General flood advisories for the non-telemetered river basins</li> </ul>		50	111	> 100	
		50	920	> 100	CAR-60; Reg.I-72; Reg.II-51; Reg.III-74; NCR-24.; Reg.IVA-58; Reg.IVB-75; Reg.V-55; Reg.VI-58; Reg.VII-45; Reg.VIII-54; Reg.IX-38; Reg.X-54; Reg.XI-48; Reg.XII-46; Reg.XIII-50; ARMM-41; BRB-4; PRB-7, ARB-6

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<ul style="list-style-type: none"> <li>Tropical Cyclone Warnings and Advisories (TCWA) for Agriculture issued</li> <li>Ten-day Regional Agri-weather Forecasts and Advisories</li> <li>Ten-day Regional Agro-climatic Review and Outlook for Agriculture</li> </ul>		<p>During occurrence of TC</p> <p>9</p> <p>9</p>	<p>31 TCWA issued to 2,106 recipients</p> <p>9 issued and 810 copies disseminated Agri-weather updates aired live daily (except Sun) at DZRM radio.</p> <p>Non-issuance since it is already incorporated in the Ten-Day Agri-Weather Forecast and Advisories</p>	<p>-</p> <p>100</p> <p>100</p>	<p>Agri-weather updates aired live daily (except Sun) at DZRM radio.</p> <p>Emailed to clients upon request.</p>
<p>Number of Special Observations Gathered and Collected:</p> <ul style="list-style-type: none"> <li>Ozone observations</li> </ul>		282	144 ozone observations conducted (cloudy skies) and 12 calibrations made	51	Less observation due to cloudy skies
<p>No. of Special Observation Stations Operated and Maintained:</p> <ul style="list-style-type: none"> <li>Ozone monitoring station</li> <li>VSS Station</li> </ul>		<p>1</p> <p>10</p>	<p>1</p> <p>10</p>	<p>100</p> <p>100</p>	
<p><b>A.II.b</b></p> <p>Number of Technical In-house Training Courses conducted with number of participants</p>		2 In-house Technical Training Courses conducted to 50 participants:	3 / 66	> 100	
<p>Number of Non-Technical In-house Training Courses conducted with number of participants</p>		2 In-house Non-Technical Training Courses conducted to 50 participants:	3 / 68	> 100	

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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		
Number of Local scholarships/fellowships with number of participants:		5 local / 7 participants	20 local / 26 participants	> 100	
Number of Foreign/ fellowships with number of participants		5 foreign / 7 participants	21 foreign / 32 local participants	> 100	
Number of Library users assisted		250	267	> 100	
<b>A.II.d</b> 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		3,588 to WFFC 3,772 to River Centers	3,363 to WFFC 3,788 to River Centers	94 > 100	
<b>A.III.a.5</b> Number of astronomical data/information services provided:					
• 24-hour time check requests via telephone services		2,250	1,972	88	
• Dissemination of time signals to PAGASA Synoptic Stations		50	71	> 100	
• Press releases on different astronomical events and activities		3	3	100	

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<b>A.III.b.1</b> Number of observing stations operated and maintained: <ul style="list-style-type: none"> <li>• Surface synoptic stations</li> <li>• Upper air stations</li> <li>• Agromet Stations</li> <li>• Aeronautical stations</li> <li>• Climat/Rain stations</li> <li>• Automatic Weather Stations (AWS)</li> <li>• MTSDP Relay stations</li> <li>• Marine Buoy</li> <li>• Automatic rain Gauge (ARG)</li> <li>• Water Level Monitoring System (WLMS)</li> <li>• Aero Meteorological Weather Observation System (AWOS)</li> <li>• Wind Profiler</li> </ul> <b>A.III.b.2</b> <ul style="list-style-type: none"> <li>• Satellite data acquired from MTSAT, NOAA/FY-ID, Feng Yun and MODIS</li> <li>• Images processed, pre-process level 1b to HDF &amp; other</li> <li>• Processed set data archived</li> <li>• Weather information (weather forecast, warnings &amp; bulletins) disseminated</li> <li>• Processed hourly satellite data uploaded to PAGASA website and to Weather Information Network for Media presentation</li> <li>• Lectures conducted to students/visitors</li> <li>• Assists researchers in satellite data extraction and interpretation</li> </ul>		58	58	100	
		6	6	100	
		24	24	100	
		16	16	100	
		88	88	100	
		155	155	100	
		2	2	100	
		2	2	100	
		87	87	100	
		47	47	100	
		2	2	100	
		1	1	100	
		5,336	5,336	100	
		5,336	5,336	100	
		5,336	5,336	100	
		3,822	3,822	100	
		2,208	2,208	100	
		As need arises	6	-	
		As need arises	2	-	



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<b>A.III.b.3</b> <ul style="list-style-type: none"> <li>Number of radar observations conducted</li> <li>Number of radar stations operated &amp; maintained</li> </ul>		552	10,653	> 100	Hourly observation during inclement weather. Aparri, Baler, Baguio, Subic, Tagaytay, Cebu, Hinatuan, Tampakan, Virac,
		10	9	90	
<b>A.I.a.2</b> Number of stations with various weather observing instruments/equipment/facilities repaired, maintained and operated, including vehicles		29 stations / 5 vehicles	55 stations / 18 vehicles	> 100	
<b>A.I.a.3</b> 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	Restoration of damaged perimeter fence at WFFC.	-	
<b>MFO 2</b> Hazard Mapping and Risk Assessment Services	1. No. of hazard maps generated/updated 2. No. of clients - scientific data / information requests - income generated				
<b>P / A / Ps</b> <b>A.III.a.2</b> <ul style="list-style-type: none"> <li>Hydromet/hydrologic prediction &amp; frequency analysis &amp; other information provided (Rainfall Intensity Duration Frequency – RIDF)</li> <li>Station-months of PABC &amp; Metro Manila real-time (telemetered) hydro data primary processed)</li> </ul>		30	58 stations/sheets to 29 clients	> 100	Income Generated: ₱ 23,200.00
		100	127	> 100	

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<ul style="list-style-type: none"> <li>Station-months of synoptic, hydromet and PABC short-duration hydro data primary processed</li> </ul> <p><b>A.III.b.1</b> Number of real-time weather observations conducted and reported:</p> <ul style="list-style-type: none"> <li>Synoptic observations</li> <li>Upper-air observations</li> <li>Agromet observations</li> <li>Aeronautical observations</li> </ul> <p><b>A.III.c.1</b> Number of basic and applied research/ studies conducted for application &amp; utilization in improving meteorological, hydrological &amp; space science activities</p> <p><b>A.III.c.3</b> Basic and operational researches/studies on tropical cyclones and other natural disaster-causing phenomena and comprehensive hazard/ vulnerability and risk assessment</p> <p><b>MFO 3</b> <b>Research and Development</b></p>	<p>1. No. of R&amp;D projects implemented</p> <p>2. No. of technical papers prepared vis-à-vis published papers in Int'l. Science Institute (ISI) listed journals</p> <p>3. No. of Intellectual Property applied /</p>	<p>400</p> <p>39,376</p> <p>552</p> <p>4,600</p> <p>20,790</p> <p>4</p> <p>3</p>	<p>459</p> <p>38,147</p> <p>654</p> <p>4,444</p> <p>24,961</p> <p>4</p> <p>3</p>	<p>&gt; 100</p> <p>97</p> <p>&gt; 100</p> <p>97</p> <p>&gt; 100</p> <p>100</p> <p>100</p>	<p>Intermittent signal at Calayan, Basco and Itbayat.</p>



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<p><b>P / A / Ps</b></p> <p><b>A.II.c.1</b> Number of scientific and technical programs/ conferences/meetings/ projects involved in</p> <p><b>A.II.c.2</b> Number of inter-agency/ regional/international/ seminars hosted/conducted/participated in</p> <p><b>A.III.a.2</b> Number of flood bulletins/advisories/ situationers and hydromet/hydrologic information prepared and issued:</p> <ul style="list-style-type: none"> <li>Flood bulletin for the telemetered Pampanga, Agno, Bicol and Cagayan (PABC) river basins</li> <li>General flood advisories for the non-telemetered river basins</li> </ul> <p>• Daily hydrological forecasts for PABC river basins during non-flood watch</p> <p><b>A.III.c.1</b> Number of basic and applied research/ studies conducted for application &amp; utilization in improving meteorological, hydrological &amp; space science activities</p>	<p>approved</p> <p>4. No. of R&amp;D collaborative projects with international scientific organization</p>	<p>5</p> <p>5</p> <p>50</p> <p>50</p> <p>343</p> <p>4</p>	<p>4</p> <p>14</p> <p>111</p> <p>920</p> <p>301</p> <p>4</p>	<p>80</p> <p>&gt; 100</p> <p>&gt; 100</p> <p>&gt; 100</p> <p>88</p> <p>100</p>	<p>CAR-60; Reg.I-72; Reg.II-51; Reg.III-74; NCR-24.; Reg.IVA-58; Reg.IVB-75; Reg.V-55; Reg.VI-58; Reg.VII-45; Reg.VIII-54; Reg.IX-38; Reg.X-54; Reg.XI-48; Reg.XII-46; Reg.XIII-50; ARMM-41; BRB-4; PRB-7, ARB-6</p>

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<b>A.III.c.3</b> Basic and operational researches/studies on tropical cyclones and other natural disaster-causing phenomena and comprehensive hazard/ vulnerability and risk assessment		2	3	> 100	
<b>A.III.c.4</b> 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	
<b>MFO 4</b> Disaster Preparedness, Risk Mitigation and Other Services	1. No. of clients served by of services <ul style="list-style-type: none"> <li>- participants to IEC lectures</li> <li>- drills</li> <li>- visitors to hydromet/ climatological facilities</li> <li>- visitors to space science and planetarium facilities</li> </ul> 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 <ul style="list-style-type: none"> <li>- demand-driven</li> </ul>				

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<p><b>P / A / Ps</b></p> <p><b>A.II.c.3</b> Number of seminars/ workshops and other disaster preparedness activities attended (as resource persons)</p> <p><b>A.III.c.2</b> Number of lectures conducted and participants attending at Weather &amp; Flood Forecasting Center, PAGASA and resource persons provided information on natural hazards</p> <p>Special Tropical Cyclone Reconnaissance Information and Damage Evaluation (STRIDE)</p> <p><b>A.III.a.2</b> Briefings to students/visitors on public information/ education drive on flood disaster and other related topic</p>	<p>5. No. of climatological hydro meteorological data/ astronomical publications info and weather certifications issued/disseminated and no. of met. instrument tested/ calibrated/ repaired</p>	<p>7</p> <p>Demand-driven</p> <ul style="list-style-type: none"> <li>Investigation reports</li> <li>Documented damages</li> <li>On site disaster information in support to Forecasting Link with LGUs</li> <li>Assistance to NDRRMC and other disaster concerned institution.</li> </ul> <p>Demand-driven</p>	<p>9</p> <ul style="list-style-type: none"> <li>Conducted lectures to 9,301 students &amp; teachers at WFFC.</li> <li>Conducted lectures on natural hazards and weather outlook to 1,831 participants at different occasions and venue</li> <li>Rendered duty at OCD at the NRDDMC Camp Aguinaldo during inclement weather.</li> <li>Conducted flood survey due to Southwest Monsoon (Habagat) in Manila, Quezon City, Marikina, Pasig, Navotas, Valenzuela and Malabon.</li> </ul> <p>444</p>	<p>171</p> <p>-</p> <p>-</p> <p>-</p>	



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<b>A.II.a.1</b> No. of Climatological/Agroclimatic Data/ Information prepared, issued and disseminated: <ul style="list-style-type: none"> <li>Weather certifications</li> <li>Monthly Agroclimatic Impact Assessment for Philippine Agriculture</li> <li>Customized weather information and other publications</li> <li>Weather Update/Climate Outlook/Advisories</li> <li>Meteorological/ Climatological/ Agromet data collected and quality controlled</li> <li>Meteorological/Climatological/Agromet data entered, checked and edited</li> </ul> No. of Consultancy Services Extended: <ul style="list-style-type: none"> <li>Interviews granted to tri-media</li> <li>Lectures/workshops conducted/attended</li> <li>Climate forum</li> <li>Researchers assisted</li> <li>Court hearings attended</li> </ul>		As need arises  3  As need arises  4  3,258 pages  199,911 records	205  3 publications and 72 copies disseminated  104 sets of publication sold  3 Weather Situation and Outlook/3 Seasonal Climate Outlook issued and 204 copies disseminated  3,277 pages  316,214 records	-  100  -  75  > 100  > 100	Income Generated: ₱ 221,870.00 A copy is also posted in the internet. Income Generated: ₱ 388,185.00          GMA 7, TV 5, ABS-CBN 2, Solar News, DZMM, and UNTV)          Income Generated: ₱ 1,320.00
<b>A.III.a.5</b> <ul style="list-style-type: none"> <li>Astronomical publications, information / Lunar and Solar certifications</li> </ul>		70	59 publications sold and 126 complimentary copies disseminated	-	

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<ul style="list-style-type: none"> <li>Dissemination of time of 24-hour telephone time checks to the general public</li> <li>Dissemination of time signals to PAGASA Synoptic Stations</li> <li>Viewers to stargazing &amp; telescoping sessions at U.P. Astronomical Observatory using the 45-cm telescope</li> <li>Visitors to planetarium lectures &amp; shows and mobile planetarium shows on tour in Metro Manila and Luzon</li> <li>Astronomical observations conducted: Sunspot, lunar occultation, meteor showers, lunar eclipses and other celestial body/object</li> <li>Sunshine duration &amp; global radiation data</li> <li>Number of assorted meteorological instruments calibrated for various clients</li> </ul> <p><b>A.III.b.1</b> Number of extension services:</p> <ul style="list-style-type: none"> <li>Participants to lectures in DPP-IEC related trainings, seminars and workshops</li> <li>Students/visitors at field stations lectured/ briefed on weather/natural disaster prevention/agency services</li> <li>Local/public weather forecasts &amp; warnings disseminated</li> <li>Weather certifications</li> </ul>		2,250	1,972	88	
		50	71	> 100	
		0 (Rainy Season)	176 viewers from 6 schools accommodated on stargazing/ telescoping sessions (including non-payee)	-	Income Generated: ₱ 2,450.00
		Upon request	5,768 students and visitors including non-payee	-	Income Generated: ₱ 3,000.00
		24	Astronomical observations: ▪ 24 sunspots	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 58 assorted meteorological instruments for various clients and 71 for PAGASA	75	Income Generated: ₱ 35,790.00 Additional 3 instruments of ASTI were calibrated for free.
		Demand-driven	17,475	-	
		Demand-driven	15,548	-	
		3,000	39,307	-	
		As need arises	428	-	Income Generated: ₱ 471,941.00



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<b>P/A/Ps that is common to all MFOs</b>					
<b>A.I.a.1</b> Support services provided to the different organizational units of the agency		100% support services provided	100% support services provided	100	
<b>A.I.a.4</b> Number of personnel receiving Magna Carta		Development of the Agency's Human Resources	Development of the Agency's Human Resources	100	
<b>B. PROJECTS</b>					
<b>I. Locally-funded Projects</b>					
a. Construction of Access Road (Guiuan)			-		
b. Renovation of building (Guiuan)			-		
c. Establishment of Climate Databank Center			-		
<b>II. Foreign-assisted Projects</b>					
a. Strengthening of Flood Forecasting and Warning System for Dam Operation (FFWSDO) (JICA Grant TCP)		Strengthen the capability of PAGASA, NPC and NIA on dam operation thru the conduct of different activities relative the project.	<ul style="list-style-type: none"> <li>Conducted site survey on August 2012 relative to the inundation analysis downstream of Pantabangan and Angat dams due to T. Pedring last October 2011.</li> <li>Conducted meetings with the C/Ps from NPC, NIA and MWSS.</li> </ul>		
b. Improvement of Flood Forecasting and Warning System for Magat Dam and Downstream Communities (FFWSDO) - NoRAD Grant		Address issues and concerns on the issuances of timely and accurate flood forecasts and warnings in the	<ul style="list-style-type: none"> <li>Final draft of technical specifications was completed by the Norwegian Water Resources and Energy Directorate (NVE) as</li> </ul>		



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c. Improvement of Meteorological Radar System - JICA Grant		<p>Cagayan River Basin and the effective operation of the Magat Dam spillway for the safety of the communities in the downstream area.</p> <ol style="list-style-type: none"> <li>1. Renovation of old structure for observer's quarter and construction of new building/tower at Virac (2010-2011), Aparri (2011-2012), and Guiuan (2012-2013).</li> <li>2. Removal and transfer of equipment and acquisition and operation of new Doppler radar at Virac (2010-2011), Aparri (2011-2012), and Guiuan (2012-2013).</li> <li>3. VSAT connectivity at Virac (2011), Guiuan (2012), and Guiuan (2013).</li> </ol>	<p>the consultancy arm of the project. Copies were for forwarded to PAGASA and NIA for review.</p> <p>Procurement &amp; manufacturing of equipment in Aparri is 100% complete while installation of equipment is 92% complete; Handling over is on November 2012</p>		
d. Improvement of Capabilities to Cope with Natural Disasters Caused by Climate Change (JICS)		<p>The project proposal has been submitted to the Department of Finance and forwarded to Embassy of Japan for review.</p>	<ul style="list-style-type: none"> <li>• Draft of Project Preparation Stage was submitted to Crown Agents in Japan for review.</li> <li>• The documents are reviewed by the Ministry of Foreign Affairs (MOFA) in preparation for the bidding.</li> </ul>		
d. Establishment of Early Warning and Response System for Disaster Mitigation in Metro Manila (Pasig-Marikina River Basin) KOICA		<p>KOICA design team has visited the study area for the installation of monitoring equipment and facilities.</p>	<ul style="list-style-type: none"> <li>• Three different siren sounds applied in public address system are available.</li> <li>• PAGASA have restored the PAGASA –MMDA link using</li> </ul>		

**QUARTERLY PHYSICAL REPORT OF OPERATION**

BAR No. 1

For the Quarter Ending September, 2012

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)
			microwave radio & the data from MMDA-EFCOS system are available at HMD Operation Center.		

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Approved by:

  
**NATHANIEL T. SERVANDO**  
Administrator  
 