

QUARTERLY PHYSICAL REPORT OF OPERATION

For the Quarter Ending December, 2013

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)
<p>A. PROGRAMS</p> <p>MFO 1 Forecast and warning services on weather, flood, climate, astronomy and extreme weather events</p> <p>P / A / Ps</p> <p>A.III.a.1 Number of weather information packages prepared and issued:</p> <ul style="list-style-type: none"> ▪ Public weather forecasts ▪ Shipping forecasts ▪ Tropical Cyclone 	<p>1. No. of timely and accurate forecasts on weather, flood and climate</p> <p>2. No. of timely and accurate warnings on weather, flood and climate (as necessary)</p> <p>3. No. of astronomical services: No of clients served</p> <p>- No. of information of different astronomical events (near earth objects such as asteroids, meteorites, etc) issued</p>	<p>184</p> <p>184</p> <p>Whenever TC enters PAR</p>	<p>184</p> <p>184</p> <p>9</p>		<p><i>Ty Quedan (Sept. 29-Oct.5), Ty Ramil (Oct.6-7), Ty Santi (Oct.8-13), Ty Tino (Oct.14-15), Ty Urduja (Oct.22-24), Ty Vinta (Oct.29-Nov.1), TD Wilma (Nov. 4), Ty Yolanda (Nov. 6-9), TD Zoraida (Nov. 11-12)</i></p>

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- Advisories		4	11		
- International Warnings		54	98		
- Severe Weather Bulletin		30	81		
- Hourly updates		As need arises	335		
▪ Aviation weather forecasts & flight enroute documentations		4,692	4,692		
▪ Gale Warning/Weather Advisories for extreme climate events		As need arises	179		
▪ Forecasts/advisories/warnings/ bulletins disseminated to regular clients and other various clients		76,360	208,130		
▪ Special Forecast for Selected provinces (Mt. Pinatubo Lahar affected areas, Mt. Mayon and other selected areas)		92	92		
▪ Special weather forecasts for selected Asian cities/Philippine cities/municipalities		92	92		
▪ Weather maps plotted and analyzed		5,152	2,067		
▪ Incorporation of MSL pressure, wind charts, satellite picture in public and shipping weather forecasts		1,108	1,671		
▪ Public & shipping weather forecasts and Asian and Philippine cities municipalities incorporated in PAGASA Website		368	368		
▪ Advisory/warning/bulletin incorporated in PAGASA Web page		140	190		
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	35		

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<ul style="list-style-type: none"> ▪ General flood advisories for the non-telemetered river basins 		30	608		CAR: 7; Reg.1: 7; Reg.2: 10; Reg.3: 36; NCR: 7;Reg.4A: 39; Reg.4B: 40; Reg.5: 55; Reg.6: 33; Reg.7: 32; Reg.8: 49; Reg.9: 52; Reg.10: 53; Reg.11: 45; Reg.12: 38; Reg.13: 49; ARMM: 44; PRB-4; ARB-1; BRB-5 & CRB-2
<ul style="list-style-type: none"> ▪ Daily hydrological forecasts for PABC river basins during non-flood watch 		341	333		
<p>A.III.a.3 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 		2	3		
<ul style="list-style-type: none"> ▪ Station-days of Angat/Pantabangan dam operations real-time (telemetered) hydro data acquired 		300	337		
<ul style="list-style-type: none"> ▪ Station-months of Angat/Pantabangan dam operations real-time (telemetered) hydro data primary processed 		15	30		
<p>A.III.a.4 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 		3	5		
<ul style="list-style-type: none"> ▪ Station-days of Binga/ Ambuklao & Magat dam operations real-time (telemetered) hydro data acquired 		300	331		

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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>		<p>20</p> <p>92</p> <p>Whenever TC threatens PAR</p> <p>9</p> <p>9</p> <p>222</p> <p>1</p> <p>10</p> <p>2 In-house Technical Training Courses conducted to 35 participants:</p>	<p>57</p> <p>92 issued and 10,764 copies disseminated</p> <p>22 TCWA issued to 2,574 recipients</p> <p>9 issued and 810 copies disseminated.</p> <p>9 issued and 810 copies disseminated.</p> <p>217 ozone observations conducted (cloudy skies) and 12 calibrations made</p> <p>1</p> <p>10</p> <p>2 / 34</p>		<p><i>All issuances were posted in the internet</i></p> <p><i>Agri-weather updates aired live daily (except Sun) at DZRM radio.</i></p> <p><i>Less observation due to cloudy skies</i></p>

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<p>Number of Non-Technical In-house Training Courses conducted with number of participants</p> <p>Number of scholarships granted/supported:</p> <p>Number of Local scholarships / fellowships with number of participants:</p> <p>Number of Foreign / fellowships with number of participants</p> <p>Number of Library users assisted</p>		<p>2 In-house Non-Technical Training Courses conducted to 50 participants:</p> <p>--</p> <p>5 local / 6 participants</p> <p>5 foreign / 6 participants</p> <p>250</p>	<p>2 / 57</p> <p>3 Full Scholars, MS in Meteorology Hendawitharana Gayana (Sri Lanka), John Manalo (Philippines), John Ariel T. Rojas (Philippines)</p> <p>Partial Scholar (M.S. in Agricultural Meteorology) Bernadeth Lucillo</p> <p>DOST-HRDP PUP Thelma A. Cinco, Ma. Elena V. Tan, Angelina SP. Galang</p> <p>Foreign-Assisted Scholars Adelaida P. Gonzales, Rusy G. Abastillas, Nikos Victor B. Peñaranda, Marcelino Q. Villafuerte II</p> <p>8 local / 17 participants</p> <p>31 foreign / 46 local participants</p> <p>272</p>		

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<p>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</p> <p>A.III.a.5 Number of astronomical data/information services provided:</p> <ul style="list-style-type: none"> • 24-hour time check requests via telephone services • Dissemination of time signals to PAGASA Synoptic Stations • Press releases on different astronomical events and activities <p>A.III.b.1 Number of observing stations operated and maintained:</p> <ul style="list-style-type: none"> • Surface synoptic stations • Upper air stations • Wind Profiler • Agromet Stations • Aeronautical stations • Climat/Rain stations • MTSDP Relay stations • Marine Buoy stations • Automatic Weather Station (AWS) • Automatic Rain Gauge (ARG) • Water Level Monitoring System (WLMS) 		<p>3,550 to WFFC 3,825 to River Centers</p> <p>2,250</p> <p>50</p> <p>3</p> <p>58</p> <p>6</p> <p>1</p> <p>24</p> <p>17</p> <p>88</p> <p>2</p> <p>2</p> <p>150</p> <p>87</p> <p>47</p>	<p>3,576 to WFFC 3,758 to River Centers</p> <p>2,435</p> <p>47</p> <p>3</p> <p>58</p> <p>6</p> <p>1</p> <p>24</p> <p>17</p> <p>88</p> <p>2</p> <p>1</p> <p>158</p> <p>87</p> <p>47</p>		

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<ul style="list-style-type: none"> • Aero-Meteorological Weather Observation System (AWOS) <p>A.III.b.2</p> <ul style="list-style-type: none"> • Satellite data acquired from MTSAT, NOAA/FY-ID, Feng Yun and MODIS • Images processed, pre-process level 1b to HDF & other • Processed set data archived • Processed hourly satellite data uploaded to PAGASA website and to Weather Information Network for Media presentation • Lectures conducted to students/visitors • Weather information (weather forecast, warnings & bulletins) disseminated <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 typhoon-damaged weather stations</p>		<p>2</p> <p>5,336</p> <p>5,336</p> <p>5,336</p> <p>2,208</p> <p>As need arises</p> <p>363</p> <p>13,610</p> <p>10</p> <p>25 stations / 5 vehicles</p> <p>Civil works related to the construction/ repair and rehabilitation of typhoon</p>	<p>2</p> <p>5,336</p> <p>5,336</p> <p>2,208</p> <p>2,208</p> <p>28</p> <p>363</p> <p>32,133</p> <p>9</p> <p>40 stations / 12 vehicles</p> <p>- Conducted emergency repair/restoration of PAGASA facilities affected by</p>		<p>Hourly observation during inclement weather</p> <p>Guiuan Radar Station damaged by Ty Yolanda</p>

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<p>undertaken</p> <p>MFO 2 Hazard Mapping and Risk Assessment Services</p> <p>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>1. No. of hazard maps generated/updated</p> <p>2. No. of clients</p> <ul style="list-style-type: none"> - scientific data / information requests - income generated 	<p>damaged weather stations undertaken</p> <p>25</p> <p>100</p> <p>400</p>	<p>Typhoon Yolanda: Tacloban, Catbalogan, Guiuan, Borongan, VISCA, Maasin, Catarman, Sorsogon, Calapan, San Jose, Roxas, Mambusao & La Granja Station</p> <p>34 stations/sheets to 19 clients</p> <p>102</p> <p>402</p>		<p>Income Generated: ₱ 13,600.00</p>

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BAR No. 1

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A.III.b.1 Number of real-time weather observations conducted and reported: <ul style="list-style-type: none"> • Synoptic observations • Upper-air observations • Agromet observations • Aeronautical observations 		39,376	37,704		
		552	1,083		
		4,600	3,994		
		20,790	22,474		
A.III.c.1 Number of basic and applied research/ studies conducted for application & utilization in improving meteorological, hydrological & space science activities		4	4		
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		
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				

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<p>P / A / Ps</p> <p>A.II.c.1 Number of scientific and technical programs/ conferences/meetings/ projects involved in</p> <p>A.II.c.2 Number of inter-agency/ regional/international/ seminars hosted/conducted/participated in</p> <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 <p>• Daily hydrological forecasts for PABC river basins during non-flood watch</p>		<p>5</p> <p>5</p> <p>54</p> <p>30</p> <p>341</p>	<p>30</p> <p>5</p> <p>35</p> <p>608</p> <p>333</p>		<p>CAR: 7; Reg.1: 7; Reg.2: 10; Reg.3: 36; NCR: 7;Reg.4A: 39; Reg.4B: 40; Reg.5: 55; Reg.6: 33; Reg.7: 32; Reg.8: 49; Reg.9: 52; Reg.10: 53; Reg.11: 45; Reg.12: 38; Reg.13: 49; ARMM: 44; PRB-4; ARB-1; BRB-5 & CRB-2</p>

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<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 issuance of farm-weather forecasts, advisories and warnings</p>		<p>4</p> <p>3</p> <p>4</p>	<p>4</p> <p>3</p> <p>7</p>		
<p>MFO 4 Disaster Preparedness, Risk Mitigation and Other Services</p>	<p>1. No. of clients served by of services</p> <ul style="list-style-type: none"> - participants to IEC lectures - drills - visitors to hydromet/ climatological facilities - visitors to space science and planetarium facilities <p>2. No. of information packages</p>				

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<p>P/A/Ps</p> <p>A.II.c.3 Number of seminars/ workshops and other disaster preparedness activities attended (as resource persons)</p> <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> <p>Special Tropical Cyclone Reconnaissance Information and Damage Evaluation (STRIDE)</p>	<p>developed / reproduced</p> <p>3. No. of information packages disseminated</p> <p>4. No. of training/seminars/ workshops/ conferences/ fora conducted for various stakeholders - demand-driven</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"> • Investigation reports • Documented damages 	<p>4</p> <ul style="list-style-type: none"> • Conducted lectures to 21,689 students & teachers at WFFC • Conducted lectures on natural hazards and weather outlook to 1,079 participants at different occasions and venue • Briefer at NDRRMC OPCEN, Camp Aguinaldo, Quezon City during the inclement 		

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<p>A.III.a.2 Briefings to students/visitors on public information/ education drive on flood disaster and other related topic</p> <p>A.II.a.1 No. of Climatological/Agroclimatic Data/ Information prepared, issued and disseminated:</p> <ul style="list-style-type: none"> • Weather certifications • Monthly Agroclimatic Impact Assessment for Philippine Agriculture • 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/Agromet 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"> • On site disaster information in support to Forecasting Link with LGUs • Assistance to NDRRMC and other disaster concerned institution. <p>Demand-driven</p> <p>As need arises</p> <p>3</p> <p>As need arises</p> <p>4</p> <p>3,030 pages</p> <p>192,450 records</p> <p>4,800</p> <p>As requested</p>	<p>weather.</p> <ul style="list-style-type: none"> • Conducted post survey after the passage of Ty Yolanda. <p>1,050</p> <p>124</p> <p>3 publications and 71 copies disseminated</p> <p>158 sets of publications sold</p> <p>3 Weather Situation and Outlook issued and 204 copies disseminated</p> <p>5,830 pages</p> <p>294,760 records</p> <p>5,228</p> <p>5</p>		<p>Income Generated: ₱ 228,902.00</p> <p>Income Generated: ₱ 428,395.00</p> <p>Radyo ng Bayan, Solar TV</p>

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<ul style="list-style-type: none"> Lectures/workshops conducted/attended 		As need arises	<ul style="list-style-type: none"> 22 lectures with 3,345 participants 		
<ul style="list-style-type: none"> Climate forum 		3	<ul style="list-style-type: none"> 23 TWG meetings attended with 536 participants 1 climate forum conducted with 75 participants 		
<ul style="list-style-type: none"> Researchers assisted Court hearings attended 		As need arises As requested	246 researchers/visitors None		
<p>A.III.a.5</p> <ul style="list-style-type: none"> Astronomical publications, information / Lunar and Solar certifications 		70	60 publications sold and 85 complimentary copies		Income Generated: ₱ 5,760
<ul style="list-style-type: none"> Dissemination of time of 24-hour telephone time checks to the general public 		2,250	2,435		
<ul style="list-style-type: none"> Dissemination of time signals to PAGASA Synoptic Stations 		50	47		
<ul style="list-style-type: none"> Viewers to stargazing & telescoping sessions at U.P. Astronomical Observatory using the 45-cm telescope 		200	208 including non-payee visitors accommodated on stargazing/telescoping sessions		
<ul style="list-style-type: none"> Visitors to planetarium lectures & shows and mobile planetarium shows on tour in Metro Manila and Luzon 		Upon request	8,822 persons accommodated including non-payee		Income Generated: ₱ 162,775.00
<ul style="list-style-type: none"> Astronomical observations conducted: Sunspot, lunar occultation, meteor showers, lunar eclipses and other celestial body/object 		38	Astronomical observations conducted: <ul style="list-style-type: none"> 64 sunspots 35 lunar occultation 3 meteor shower 		
<ul style="list-style-type: none"> Sunshine duration & global radiation data 		92	Observed global radiation data 92 days and sunshine duration data 92 days		
<ul style="list-style-type: none"> Number of assorted meteorological instruments calibrated for various 		Calibration of 40 assorted meteorological instrument for	Repaired and calibrated 47 assorted meteorological		Income Generated: ₱ 29,340.00

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<p>clients</p> <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>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> <p>A.I.a.4 Number of personnel receiving Magna Carta</p> <p>B. PROJECTS 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>various customers and PAGASA</p> <p>Demand-driven</p> <p>Demand-driven</p> <p>30,000</p> <p>As need arises</p> <p>100% support services provided</p> <p>Development of the Agency's Human Resources</p> <p>--</p>	<p>instruments for various clients, 8 for ASTI (free), and 43 assorted and 14 AWS for PAGASA</p> <p>14,806</p> <p>18,358</p> <p>478,223</p> <p>499</p> <p>100% support services provided</p> <p>Development of the Agency's Human Resources</p> <p>• Completed the bidding of the 3 River Centers in Tagum City, General Santos City and</p>		<p>Income Generated: ₱ 547,915.00</p>

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<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>Davao City and will be awarded in January 2014.</p> <ul style="list-style-type: none"> • Project Completed • Finalized the draft tender documents • Finished the survey activities on the proposed sites. • Secured permits for approval on ROW (LGUs and DepEd), drawings on civil works (DPWH), Certificate of Non-Coverage or CNC (EMB), etc. 		<p>Guiuan Doppler Radar was extremely damaged by Ty Yolanda on Nov. 8, 2014.</p>

Prepared by:


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