

**QUARTERLY PHYSICAL REPORT OF OPERATION**

For the Quarter Ending March, 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)
<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		180	180	100	
▪ Shipping forecasts		180	180	100	
▪ Tropical Cyclone		Whenever TC enters PAR	3 TC entered PAR	-	
- Advisories		As need arises	15	-	
- International Warnings		As need arises	26	-	
					TS Auring (Jan. 3-4), TD Bising (Jan. 11-13), TD Crising (Feb. 18-22)

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<ul style="list-style-type: none"> <li>- Severe Weather Bulletin</li> <li>- Significant Meteorological Information</li> <li>- Hourly updates</li> <li>▪ Aviation weather forecasts &amp; flight enroute documentations</li> <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> <p><b>A.III.a.2</b> Number of flood bulletins/advisories/situationers and hydromet/hydrologic information prepared and issued:</p>		As need arises	25	-		
			As need arises	3	-	
			As need arises	122	-	
			4,590	4,590	100	
			As need arises	119	-	
			As need arises	209,625	-	
			90	90	100	
			90	90	100	
			1,730	1,730	100	
			360	360	100	
			2,520	2,520	100	
			As need arises	185	-	

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<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>   <li>▪ Daily hydrological forecasts for PABC river basins during non-flood watch</li> </ul> <p><b>A.III.a.3</b> Number of flood bulletins/warning information for Angat &amp; Pantabangan Dams Operations prepared and issued:</p> <ul style="list-style-type: none"> <li>▪ Flood bulletins/warning information</li> <li>▪ Station-days of Angat/Pantabangan dam operations real-time (telemetered) hydro data acquired</li> <li>▪ Station-months of Angat/Pantabangan dam operations real-time (telemetered) hydro data primary processed</li> </ul> <p><b>A.III.a.4</b> Number of flood bulletins/warning information for Binga/Ambuklao and Magat Dam Operations prepared and issued:</p>		6	5	83	CAR: 0; Reg.1: 0; Reg.2: 0; Reg.3: 9; NCR: 0;Reg.4A: 15; Reg.4B: 2; Reg.5: 8; Reg.6: 0; Reg.7: 0; Reg.8: 10; Reg.9: 5; Reg.10: 12; Reg.11: 16; Reg.12: 12; Reg.13: 17; ARMM: 7; PRB - 0; ARB - 0; BRB - 0 & CRB - 0
		20	449	> 100	
		357	353	99	
		0	0	-	
		300	334	> 100	
		15	30	> 100	

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<ul style="list-style-type: none"> <li>▪ Flood bulletins/ warning information</li> <li>▪ Station-days of Binga/ Ambuklao &amp; Magat dam operations real-time (telemetered) hydro data acquired</li> <li>• Station-months of Binga/ Ambuklao &amp; Magat dam operations real-time (telemetered) hydro data primary processed</li> </ul> <p><b>A.II.a.1</b> No. of Farm Weather Forecasting and Advisory Services provided:</p> <ul style="list-style-type: none"> <li>▪ Daily Farm Weather Forecasts and Advisories (FWFA) issued</li> <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>Number of Special Observations Gathered and Collected:</p> <ul style="list-style-type: none"> <li>▪ Ozone observations</li> </ul> <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>		0	0	-		
		300	462	> 100		
		20	57	> 100		
		90	90 issued to 10,530 recipients	100		All issuances were posted in the internet
		Issued whenever TC threatens PAR	6 TCWA issued and 702 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.
		283	253 Ozone observations conducted and 12 calibrations	89		Less observation due to cloudy skies
		1	1	100		
		10	10	100		

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<b>A.II.b</b> Number of Technical In-house Training Courses conducted with number of participants  Number of Non-Technical In-house Training Courses conducted with number of participants  Number of scholarships granted/supported:  Number of Local scholarships/fellowships with number of participants:  Number of Foreign/ fellowships with number of participants		1 In-house Technical Training Courses conducted to 30 participants:	4 In-house Technical Training Courses conducted to 95 participants, 1 Long-Term In-House Technical Training under AGHAM Party-List with 16 participants	> 100	
		2 Non-Technical Training with 50 participants	1 Non-Technical Training with 55 participants	> 100	
		--	3 Scholars Assisted: 2 Full Scholars: M.S. in Meteorology Hendawitharana Gayana (Sri Lanka), Prethika Jayakody (Sri Lanka) 1 Partial Scholar: - M.S. in Agricultural Meteorology Bernadeth Lucillo  DOST-HRDP Scholars Thelma A. Cinco, Ma. Elena V. Tan, Angelina SP. Galang	100	
		5 local / 6 participants	17 local / 14 participants	> 100	
		5 foreign / 6 participants	21 foreign / 14 local participants	> 100	

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Number of Library users assisted		250	189	76	
<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		3,550 to WFFC 3,825 to River Centers	4,604 to WFFC 4,604 to River Centers	> 100	
<b>A.III.a.5</b>					
Number of astronomical data/information services provided:					
• 24-hour time check requests via telephone services		2,250	1,682	75	
• Dissemination of time signals to PAGASA Synoptic Stations		50	73	> 100	
• Press releases on different astronomical events and activities		3	3	100	
<b>A.III.b.1</b>					
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)		40	40	100	
• MTSDP Relay stations		2	2	100	
• Marine Buoy		2	2	100	

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<ul style="list-style-type: none"> <li>• Automatic Rain Gauge (ARG)</li> <li>• Water Level Monitoring System (WLMS)</li> <li>• Aero-Meteorological Weather Observation System (AWOS)</li> </ul> <p><b>A.III.b.2</b></p> <ul style="list-style-type: none"> <li>• Satellite data acquired from MTSAT, NOAA/FY-2D, 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> <p><b>A.III.b.3</b></p> <ul style="list-style-type: none"> <li>• Number of radar observations conducted</li> <li>• Number of radar stations operated &amp; maintained</li> </ul>		187	187	100	
		47	47	100	
		2	2	100	
		5,221	5,220	99	
		5,221	5,220	99	
		5,278	5,278	100	
		As need arises	205		
		2,160	2,160	100	
		As need arises	6	-	
		As need arises	2	-	
		546	7,185	> 100	
		10	9	90	

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<p><b>A.I.a.2</b> Number of stations with various weather observing instruments/equipment/facilities repaired, maintained and operated, including vehicles</p> <p><b>A.I.a.3</b> Civil works related to the construction/repair and rehabilitation of typhoon-damaged weather stations undertaken</p> <p align="center"><b>MFO 2</b> Hazard Mapping and Risk Assessment Services</p> <p align="center"><b>P / A / Ps</b></p>	<p>1. No. of hazard maps generated/updated</p> <p>2. No. of clients</p> <ul style="list-style-type: none"> <li>- scientific data / information requests</li> <li>- income generated</li> </ul>	<p>30 stations / 5 vehicles</p> <p>Civil works related to the construction/ repair and rehabilitation of typhoon damaged weather stations undertaken</p>	<p>29 stations / 8 vehicles</p> <ul style="list-style-type: none"> <li>• Conducted ocular inspection for the rehabilitation of station buildings at Borongan, Maasin, Guiuan, Tacloban, UEP, Aborlan and BSU.</li> <li>• Conducted the Pre-Inspection of Basco radar tower building in preparation for the building repair and installation of new radar system.</li> <li>• Conducted Post-Inspection of Romblon PAGASA station.</li> <li>• Flood Hazard Mapping - Data collection for Cavite and Bulacan are completed.</li> <li>• Storm Surge Hazard Mapping - Data collection for Parañaque and Las Piñas are completed.</li> </ul>	<p>99</p> <p align="center">-</p>	



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<b>A.III.a.2</b> ▪ 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  <b>A.III.b.1</b> Number of real-time weather observations conducted and reported: • Synoptic observations • Upper-air observations • Agromet observations • Aeronautical observations  <b>A.III.c.1</b> Number of basic and applied research/ studies conducted for application & utilization in improving meteorological, hydrological & space science activities  <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		20	69 stations/sheets to 24 clients		Income Generated: ₱ 27,270.00	
		100	98	98		
		300	420	>100		
		38,948	37,679	97		
		546	977	>100		
		4,550	4,293	94		
		20,790	25,729	>100		
		4	4	100		
		3	3	100		

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risk assessment					
<b>MFO 3</b> <b>Research and Development</b>	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				
<b>P / A / Ps</b>					
<b>A.II.c.1</b> Number of scientific and technical programs/ conferences/meetings/ projects involved in		5	10	>100	
<b>A.II.c.2</b> Number of inter-agency/ regional/international/ seminars hosted/conducted/participated in		5	5	>100	
<b>A.III.a.2</b> Number of flood bulletins/advisories/ situationers and hydromet/hydrologic information prepared and issued:					

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<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>   <li>• Daily hydrological forecasts for PABC river basins during non-flood watch</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>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</p>		6	5	>100	CAR: 0; Reg.1: 0; Reg.2: 0; Reg.3: 9; NCR: 0;Reg.4A: 15; Reg.4B: 2; Reg.5: 8; Reg.6: 0; Reg.7: 0; Reg.8: 10; Reg.9: 5; Reg.10: 12; Reg.11: 16; Reg.12: 12; Reg.13: 17; ARMM: 7; PRB - 0; ARB - 0; BRB - 0 & CRB - 0
		20	449	>100	
		357	353	99	
		4	4	100	
		3	3	100	
		4	6	>100	

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improvement of climatological services, and analysis of weather and climate situations for the formulation and issuance of farm-weather forecasts, advisories and warnings  <b>MFO 4</b> Disaster Preparedness, Risk Mitigation and 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		38,979 participants   2 pamphlets and 1 brochure  606  Trainings/Seminars - 4 Fora - 2  Climatological/Met. Data - 109 Astronomical Publications - 254 sold and 914 complimentary copies disseminated Weather Certifications - 628 Met. Instrument Calibrated - 178		

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<b>P / A / Ps</b>					
<p><b>A.II.c.3</b> Number of seminars/ workshops and other disaster preparedness activities attended (as resource persons)</p>		7	4	57	
<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>		As need arises	<ul style="list-style-type: none"> <li>• Conducted lectures to 14,914 students &amp; teachers at WFFC.</li> <li>• Conducted lectures on natural hazards and weather outlook to 8,125 participants at different occasions and venue</li> </ul>	-	
<p>Special Tropical Cyclone Reconnaissance Information and Damage Evaluation (STRIDE)</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>	<ul style="list-style-type: none"> <li>• Briefer at NDRRMC OPCEN during the South Korea Rocket Launch on Jan. 29-30.</li> <li>• Briefer at NDRRMC OPCEN Camp Aguinaldo Quezon City during the inclement weather.</li> <li>• Surveyed Tornado/Hail occurrence at Brgy. Masambong, Roosevelt, Quezon City on March 14.</li> </ul>	-	
<p><b>A.III.a.2</b> Briefings to students/visitors on public information/ education drive on flood disaster and other related topic</p>		As need arises	1,351	-	

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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> </ul>		As need arises	53	-	Income Generated: ₱ 54,400.00	
		3	3 publications and 75 copies disseminated	100		
			As need arises	106 sets of publications sold	-	Income Generated: ₱ 383,292.00
		4	3 Weather Situation and Outlook issued and 204 copies disseminated, 1 Seasonal Climate Outlook issued and 68 copies disseminated	100		
			3,330 pages	3,868 pages	>100	
			192,450 records	301,332 records	>100	
			As need arises	4	-	PTV 4, Independent Media Professor, Radyo ng Bayan
			As need arises	<ul style="list-style-type: none"> <li>• 16 lectures to 1,028 participants</li> <li>• 30 TWG Meetings attended with 1,115 participants</li> </ul>	-	
			3	2 climate fora conducted on Feb. 6 (82 participants) and March 8 (75 participants)	67	

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<ul style="list-style-type: none"> <li>• Researchers assisted</li> <li>• Court hearings attended</li> </ul> <p><b>A.III.a.5</b></p> <ul style="list-style-type: none"> <li>• Astronomical publications, information / Lunar and Solar certifications</li> <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>• Celebration of National Astronomy Week 18-22 February 2013                             <ul style="list-style-type: none"> <li>- Free accommodation of 100 students in stargazing/telescoping sessions</li> <li>- Free planetarium lectures/shows to 1,0000 students</li> <li>- Free planetarium on tour package at different schools at Sothern Luzon-PRSD</li> <li>- First Astrophotography Contest with 25 participants</li> <li>- Seminar/Workshop to 40 Science Teachers on Basic and Observational Astronomy for Public Science Teachers in Metro Manila</li> </ul> </li> <li>• Viewers to stargazing &amp; telescoping sessions at U.P. Astronomical Observatory using the 45-cm</li> </ul>		As need arises	320 researchers/visitors	-		
			As requested	1 court hearing attended at Makati RTC	-	
			As requested	254 publications sold; 914 complimentary copies disseminated	-	Income Generated: ₱ 21,600.00
			2,250	1,682	75	
			50	73	>100	
			-	373 for overnight stargazing at the PAGASA Observatory		
			-	2,235 students and astronomy enthusiasts		
			-	16 different schools at SL-PRSD		
		-	16 students (elementary and secondary level)			
		-	48 Science Teachers from Metro Manila			
		Upon request	666 visitors accommodated on stargazing/telescoping sessions (including non-payee)	-	Income Generated: ₱ 16,650.00	

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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  • Sunshine duration & global radiation data  • Number of assorted meteorological instruments calibrated for various clients  <b>A.III.b.1</b> Number of extension services: • Participants to lectures in DPP-IEC related trainings, seminars and		Upon request	4,162 students and science teachers with 144 non-payee accommodated for planetarium lectures/shows on Astronomy	-	Income Generated: ₱ 104,050.00
		Upon request	Accommodated 9 schools with 2,149 students/science teachers as participants in portable planetarium lecture and shows and stargazing	>100	Income Generated: ₱ 13,000.00
		30 Astronomical observations	Astronomical observations: • 58 sunspots • 2 lunar occultation • 1 Meteor Shower • Photography of the comet Pan-Starrs at the Observatory and at Manila Bay	100	Observed global radiation data 90 days and sunshine duration data 90 days
		90	Repaired and calibrated 69 assorted meteorological instruments for various clients, 6 for ASTI (free) and 108 for PAGASA	158	Income Generated: ₱ 45,510.00
		Calibration of 40 assorted meteorological instrument for various customers and PAGASA			
		Demand-driven	12,687 participants	-	



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workshops • Students/visitors at field stations lectured/ briefed on weather/natural disaster prevention/agency services • Local/public weather forecasts & warnings disseminated • Weather certifications  <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  <b>A.I.a.4</b> Number of personnel receiving Magna Carta  <b>B. PROJECTS</b>  <b>I. Locally-funded Projects</b>  a. Telemetered Flood Forecasting and Warning System for 13 of 18 Major River Basins in the Philippines		Demand-driven  As need arises  As need arises    100% support services provided   Development of the Agency's Human Resources	24,125 students/visitors  8,791 local/public weather forecasts & warnings 575   100% support services provided   Development of the Agency's Human Resources   • Coordinated with CAAP Davao for Davao river basin and for the Buayan-Malungon river basins in Cotabato which are being prioritized by the Mindanao Presidential Task Force.	-  -  -   100   100	Income Generated: ₱ 646,487.00

**QUARTERLY PHYSICAL REPORT OF OPERATION**

BAR No. 1

For the Quarter Ending March, 2013

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>II. Foreign-assisted Projects</b>					
a. Improvement of Meteorological Radar System (JICA)			<ul style="list-style-type: none"> <li>• Virac and Aparri - completed</li> <li>• Guiuan - Handling-over of documents is scheduled on the 2<sup>nd</sup> quarter.</li> </ul>		
b. Improvement of Capabilities to Cope with Natural Disasters Caused by Climate Change (JICS)			<ul style="list-style-type: none"> <li>• After a period of analysis, the Ministry of Foreign Affairs (MoFA) in Tokyo notified PAGASA to proceed with the project.</li> <li>• Nippon Koei, consultant of JICS, will determine the necessary measures to ensure that Invitation to Bid (ITB) process is competitive / open and not in any way limited to only one supplier.</li> <li>• On-going finalization of Project Preparation Stage (PPS).</li> </ul>		

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