



REPUBLIC OF THE PHILIPPINES
NATIONAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL

National Disaster Risk Reduction and Management Center, Camp Aguinaldo, Quezon City, Philippines

NDRRMC UPDATE

Final Report re Preparedness Measures and Effects of Weather Disturbances in the Country enhanced by Typhoon “PAOLO” and a Low Pressure Area (LPA) (15-22 October 2017)

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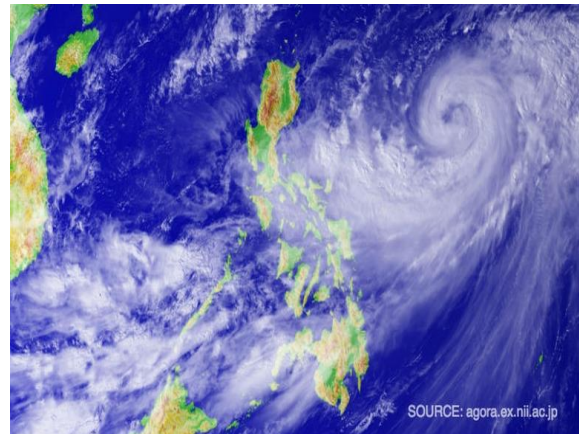
Sources: DOST-PAGASA, DSWD, DILG, DOH, PCG, RDRRMCs/ OCDROs III, MIMAROPA, V, VI, VII, VIII, IX, XII, CARAGA, and ARMM

I. SITUATION OVERVIEW

A. CHRONOLOGY OF WEATHER DISTURBANCES

15 October 2017

Intertropical Convergence Zone (ITCZ) affecting Southern Luzon, Visayas, and Mindanao was monitored in the Philippine Area of Responsibility (PAR).



16 October 2017

At 10:00 PM, the Tropical Storm with international name “LAN” entered the Philippine Area of Responsibility and was named “PAOLO”. It has maximum sustained winds of up to 80 km/h near the center and gustiness of up to 95 km/h.

The center of Tropical Storm “PAOLO” was estimated based on all available data at 940 km East of Guiuan, Eastern Samar (11.0°N, 134.3°E). Estimated rainfall amount was from moderate to heavy within the 425 km diameter of the Tropical Storm.

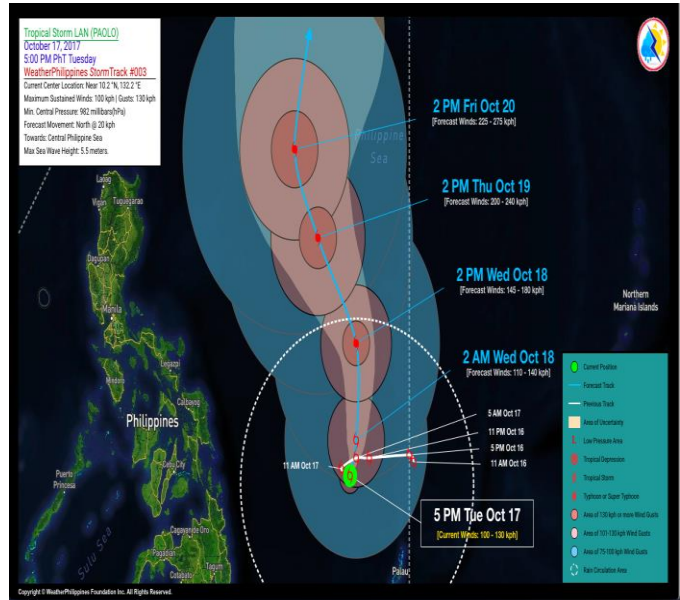
TS “PAOLO” was enhanced further by ITCZ affecting Southern Luzon, Visayas, and Mindanao.

17 October 2017

At 10:00 AM, “PAOLO” was estimated based on all available data at 765 km East of Guiuan, Eastern Samar (11.0°N, 132.7°E) and intensified into a Severe Tropical Storm (STS) as it moved over the Philippine Sea.

At 10:00 PM, STS "PAOLO" slightly intensified as it moved over the Philippine Sea. The center of STS "PAOLO" was estimated based on all available data at 675 km East Northeast of Hinatuan, Surigao del Sur (10.5°N, 132.1°E) with maximum sustained winds of up to 105 km/h near the center and gustiness of up to 130 kph.

The estimated rainfall amount was from moderate to heavy within the 450 km diameter of the STS. The outer rain bands of "PAOLO" brought scattered light to moderate with occasional heavy rains over Bicol Region, Visayas, and Mindanao.



Meanwhile, the Low Pressure Area (LPA) was estimated based on all available data at 200 km West Northwest of Puerto Princesa City, Palawan (10.9°N, 117.1°E). This weather system brought scattered light to moderate with possible occasional heavy rains over Palawan embedded along the ITCZ affecting Southern Luzon, Visayas, and Mindanao.

18 October 2017

At 10:00 AM, "PAOLO" intensified from STS to a typhoon. It was located based on all available data at 735 km East of Guiuan, Eastern Samar (11.8 °N, 132.4 °E). It maintained its strength and continued to move in a North Northwest direction.

Meanwhile, the Low Pressure Area (LPA) was estimated based on all available data at 280km West of Puerto Princesa City, Palawan (9.7°N, 116.2°E). This weather system brought scattered light to moderate with occasional heavy rains over Palawan.

19 October 2017

At 10:00 PM, the eye of Typhoon "PAOLO" was located based on all available data at 930 km East Northeast of Baler, Aurora (17.3°N, 130.1°E). It maintained its strength and moved North Northwest over the Philippine Sea.

Meanwhile, the LPA was estimated based on all available data at 235 km North Northwest of Puerto Princesa City, Palawan (11.6°N, 117.8°E). This weather system, along with the outer rainbands of "PAOLO" and the southwesterly windflow enhanced by this typhoon brought scattered to widespread rains and thunderstorms over Palawan, Bicol Region, Visayas, CARAGA, Northern Mindanao, Zamboanga Peninsula, and ARMM.

20 October 2017

At 10:00 AM, TY "PAOLO" slightly changed course and moved in a North-Northeast direction with a maximum sustained wind of up to 130 kph and gustiness of up to 160 kph. At 10:00 PM, it maintained its direction and slowly moved away from the country. Meanwhile, the LPA near Mindoro had dissipated.

The outer rainbands of TY “PAOLO” and the southwesterly windflow enhanced by this typhoon brought scattered to widespread rains and thunderstorm over Visayas and the regions of MIMAROPA and Bicol.

21 October 2017

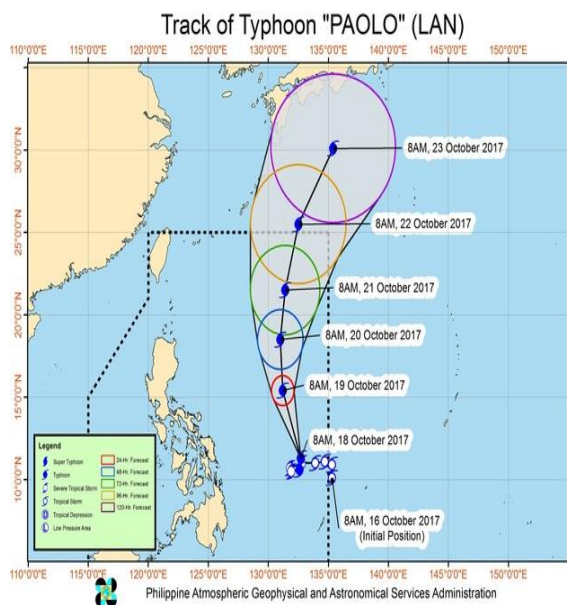
At 10:00 PM, TY “PAOLO” maintained its strength and was about to exit PAR with a maximum sustained wind of up to 185 kph and gustiness of up to 225 kph.

The southwesterly wind flow enhanced by “PAOLO” was forecasted to bring cloudy skies with scattered light to moderate and at times heavy rainshowers during thunderstorms over Mindanao, Western Visayas, and Palawan.

22 October 2017

At 4:00 AM, TY “PAOLO” exited PAR and was located at 1,345 km East Northeast of Basco, Batanes with a maximum sustained wind of 185 kph near the center and gustiness of up to 225 kph.

B. Typhoon Analysis



“PAOLO”, with International Name “LAN” was already a Tropical Storm (TS) when it entered the Philippine Area of Responsibility (PAR) on the evening of 16 October 2017. It initially moved in a West Northwest direction at 11 kph. PAOLO rapidly intensified into a Typhoon with a maximum sustained winds of 120 kph on the early morning of 18 October, moving in a North Northwest direction then it veered North Eastward away from the country early morning of 22 October. PAOLO reached 185 kph maximum winds and gustiness of up to 225kph before exiting the PAR. No TCWS was raised.

Typhoon “PAOLO” stayed in the PAR for seven (7) days from 16 October (10:00

PM) to 22 October (4:00 AM) 2017.

II. EFFECTS

A. AFFECTED POPULATION (TAB A)

1. A total of **33,463 families / 161,975 persons** were affected in Regions VI, VII, IX, XII, CARAGA, and ARMM: Of which, **27,146 families / 130,384 persons** were served inside and outside Evacuation Centers (ECs).

B. INCIDENTS MONITORED (TAB B)

1. A total of **19 incidents** were monitored in Regions MIMAROPA, IX, XII, CARAGA, and ARMM.

Incidents	Quantity	Regions
Landslide (3)		

Incidents	Quantity	Regions
	1	CARAGA
	2	MIMAROPA
Flooding / Flashflood (9)		
	3	MIMAROPA
	3	IX
	1	XII
	1	CARAGA
	1	ARMM
Strong wind / Big Waves (6)		
	1	IX
	3	XII
	2	ARMM
Others (1)		
	1	MIMAROPA
Total	19	

C. SUSPENSION OF CLASSES

- Classes in the following areas of Regions MIMAROPA, VII, VIII, and X were suspended:

AREA	LEVEL	DATE
REGION MIMAROPA		
Busuanga, Palawan	Elementary and High School	20 October 2017
Coron, Palawan	All Levels	20 October 2017
Culion, Palawan	All Levels	20 October 2017
San Jose, Occidental Mindoro	All Levels (Public)	20 October 2017
Magsaysay, Occidental Mindoro	All Levels	20 October 2017
REGION VII		
Province of Siquijor	All levels	19 October 2017
Jagna, Bohol	All levels	18 October 2017
REGION VIII		
Naval, Biliran	Elementary and High School	18 October 2017
REGION X		
Gingoog City, Misamis Oriental	All levels	20 October 2017

D. STATUS OF LIFELINES

ROADS AND BRIDGES

- Daang Maharlika Road in Sogod, Southern Leyte was reported not passable due to landslide on 18 October 2017.
- Dinganen Bridge in Buldon, Maguindanao was damaged due to flashflood on 18 October 2017, 9:00 AM. A pathway beside the bridge was used as an alternate route.

POWER SUPPLY

- On 19 October 2017, 2:00 AM, the mainland area of the Province of Surigao del Norte (excluding Siargao Island) experienced black-out due to the tripping-off of electrical lines of NGCP Surigao-Placer service area brought about by strong

winds. On 19 October 2017, 7:05 A.M, NGCP restored its power lines. However, the Surigao del Norte Electric Cooperative (SURNECO) not able to restored its power system due to damaged electric lines/wires. Power has been restored in mainland Surigao del Norte on 19 October 2017, 9:00 PM.

2. On 19 October 2017, Brgy. Talon, Capitulangan, Alagatan, Maribucan, Mimbabalon, and Tinabalan in Gingoog City experienced power interruption due to toppled electric posts. On 20 October 2017, power was restored by MORESCO II.

E. STATUS OF PORTS

SEAPORTS

1. A total of **123 passengers** were stranded in the Ports of Bulan and Pasacao in Bicol on 21 October 2017 due to rough seas caused by strong to gale force winds associated with TY "PAOLO". Normal port operations resumed on 20 October 2017.

AIRPORTS

1. **13 domestic flights** were cancelled due to bad weather on 17, 18, and 20 October 2017:

FLIGHT NO.	DESTINATION	DATE
2P 2084 / 2085	Manila – Basco – Manila	20 October 2017
M8 715 / 716	Manila – Busuanga – Manila	20 October 2017
T6 110 / 111	Manila – El Nido – Manila	20 October 2017
T6 112	Manila – El Nido	20 October 2017
T6 147	El Nido – Manila	20 October 2017
5J888	Cotabato – Manila	17-18 October 2017
DG 6972	Cotabato – Cebu	18 October 2017
DG 6685	Cotabato – Zamboanga	18 October 2017
PR 2960	Cotabato – Manila	18 October 2017

Note: 2P & PR – PAL Express / M8 – Skyjet / T6 – Air Swift / MJ & DG – Cebu Pacific

F. DAMAGES

1. HOUSES

- a. A total of **1,370 houses were reported damaged (646 partially and 724 totally)** in Regions MIMAROPA, VI, VII, IX, XII, CARAGA, and ARMM, with breakdown as follows:

Region/Province/ Municipality/City/Barangays	Damaged Houses		TOTAL
	Partially	Totally	
GRAND TOTAL	646	724	1,370
Region IV (MIMAROPA)			
Palawan	1	1	2
Araceli	1		1
Dumaran		1	1
Region VI			
Negros Occidental	12	7	19
Ilog	12	7	19
Region VII			
Siquijor	3		3
Siquijor (Capital)	3		3
Negros Oriental	43	40	83
Dumaguete City (Capital)	22	13	35
Siaton	14	24	38
Valencia (Luzurriaga)	7	3	10

Region/Province/ Municipality/City/Barangays	Damaged Houses		TOTAL
	Partially	Totally	
REGION IX			
Zamboanga del Sur	310	142	452
Zamboanga City	310	142	452
REGION XII			
Sultan Kudarat	131	102	233
Kalamansig	123	39	162
Lebak	8	63	71
Sarangani Province	45	40	85
Kiamba	8	12	20
Malapatan	37	28	65
CARAGA			
Agusan del Norte	3		3
Jabonga	3	-	3
ARMM			
Maguindanao	3	6	9
Sultan Mastura	1		1
Sultan Kudarat	2	5	7
Buldon		1	1
Basilan	14		14
Sulu	51	186	237
Tawi-Tawi	30	200	230

Sources: OCD Region IX, XII, MIMAROPA, VI, VII, CARAGA, ARMM and DSWD DROMIC Terminal Report on the Effects of Typhoon Paolo, 18 April 2018, 11:00 AM.

2. OTHER DAMAGES

The following facilities and infrastructures incurred damages in Regions MIMAROPA, XI and ARMM:

REGION	AREA	DAMAGES	REMARKS
MIMAROPA	Magsaysay, Occidental Mindoro	955.5 has. of rice crops	Cost of damages amounting to ₱21,643,648.00
XI	Limpapa, Zamboanga City	Facilities in Limpapa National High School	Due to flashfloods
	Brgy. Patalon, Zamboanga City	Sea Wall	
	Brgy. Vitali, Zamboanga City	Crops and fishponds	
	Zamboanga City	Slope protection	Due to ITCZ
	Siocon, Zamboanga Del Norte	Crops, infrastructure, fishing industry and properties	Due to heavy rainfall
ARMM	Sulu	Small fishing vessels	Due to big waves in Jolo Wharf
	Brgy. Pandami, Sulu	Pump boat	Partially damaged due to big waves

G. DECLARATION OF STATE OF CALAMITY

- Zamboanga City was declared under State of Calamity with Resolution No. 1375 dated 19 October 2017.

III. DISASTER PREPAREDNESS AND RESPONSE

A. National Disaster Risk Reduction and Management Council

1. NDRRM Operations Center (NDRRMOC)

- a. Conducted Pre-Disaster Risk Assessment (PDRA) re Severe Tropical Storm (STS) "PAOLO" on 17 October 2017, 10:00 AM.
- b. Issued NDRRMOC Memorandum No. 128 to all RDRRMCs re Submission of RDRRMOC's Preparedness Actions in relation to TY "PAOLO".
- c. Issued NDRRMOC Memorandum to NDRRMOC Member-Agencies re the continuation of the Alert Status at the NDRRMOC.
- d. Disseminated Severe Weather Bulletins to RDRRMCs/OCDROs concerned through SMS, facsimile, and official social media websites for further dissemination to their respective Local Disaster Risk Reduction and Management Councils (LDRRMCs).
- e. Prepared Emergency Alert and Warning Messages (EAWM) re Heavy rainfall warning due to TY "PAOLO" and forwarded the same to Telecommunications Service Providers for widest dissemination to the public.

2. Philippine Atmospheric, Geophysical and Astronomical Services Administration (DOST-PAGASA)

- a. Provided updates on the said weather disturbance and Status of monitored major dams during the PDRA Meeting on 17 October 2017.
- b. Disseminated Severe Weather Bulletins, General Flood Advisories, Flood Bulletins, and Gale Warnings re Typhoon "PAOLO".

3. Department of the Interior and Local Government (DILG)

- a. Provided information/advisories to all concerned DILG ROs regarding the development of "PAOLO" thru emails and text blasts.
- b. Instructed all concerned DILG ROs to take proactive measures in the impending disaster.
- c. Provided updates on weather alerts/advisories to all ROs and LGUs.
- d. Alerted and advised all concerned DILG Regional Offices and LGUs concerned on the following to:
 - Monitor all PAGASA weather advisories and typhoon bulletins as well as the Project NOAH via website.
 - Establish critical preparedness actions based on the Operation LISTO protocols, and prioritize prepositioning of supplies and equipment for response.
 - Visit the MGB Geo-Hazard Web Portal for additional information.
- e. Monitored all PAGASA weather advisories and typhoon bulletins via <http://www.pagasa.dost.gov.ph/>, as well as the Project NOAH website www.noah.dost.gov.ph.
- f. Coordinated with PAGASA and MGB in monitoring updates.
- g. Monitored all affected LGUs.

4. Department of Social Welfare and Development (DSWD)

- a. Prepositioned stockpiles and standby funds amounting to ₱1,029,778,311.50.
- b. DSWD-DReAMB Operations Center was placed on GREEN alert and standby on BLUE Alert Status.
- c. The Disaster Response Operations Monitoring and Information Center (DROMIC) of the DSWD-DReAMB was placed on standby for monitoring of disaster events and report updates.

B. Regional / Local Disaster Risk Reduction and Management Councils (R/LDRRMCs)

- Disseminated weather advisories/ bulletins to RDRRMC member-agencies, P/C/MDRRMCs, and local media (radio stations) through OCD InfoBoard Text Blast System and upload the same to social accounts to effectively ensure public safety and achieve zero-casualty.

1. REGION III

Office of Civil Defense (OCD) III

- a. Disseminated NDRRMC Advisories on Weather, Flooding, Thunderstorm, and Severe Weather Bulletins to all concerned Local Chief Executives, Local DRRM Officers, and Regional DRRMCs thru SMART Info-board, facsimile, and email for widest dissemination of information and warnings.
- b. Coordinated with the P/M/C DRRM and member agencies regarding Typhoon "PAOLO".

2. MIMAROPA

OCD MIMAROPA

- a. Placed on BLUE Alert Status.
- b. Coordinated with response agency and monitored weather situation within area of responsibility.

DILG MIMAROPA

- a. Sent advisory to all provincial offices re "PAOLO".

DSWD MIMAROPA

- a. Activated all P/C/M Quick Response Teams in 5 provinces of MIMAROPA to regularly monitor the situations in respective areas.
- b. Activated all members of R/P/C/M QRTs together with special projects on a 24/7 basis in case there is any untoward incident report happened due to weather disturbance.
- c. Advised our P/MQRTs to coordinate with concerned LGUs to report any unusual eventualities in their respective areas.
- d. Coordinated with the Office of Civil Defense (OCD) for any warning signal updates for monitoring purposes and response mechanism for areas that were affected.
- e. Stockpiled 34,424 family food packs to all SWADT and Regional Warehouses including prepositioned goods in identified GIDA/critical areas.
- f. Placed standby funds amounting to ₱2,090,608.54.
- g. Prepositioned 23,877 Family Food Packs (FFPs) in DSWD MIMAROPA warehouses:

Warehouse location	No. of available Family Food Packs
Regional Office Manila	6,923
Oriental Mindoro	2,946
Occidental Mindoro	3,650
Marinduque	3,136
Romblon	4,462
Palawan	2,760
Total	23,877

Department of Health (DOH) MIMAROPA

- a. Prepositioned water disinfectant and collapsible Jerry Cans in flood-prone areas of MIMAROPA and Provincial Department of Health Office (PDOHO).
- b. Advised Quad-Cluster Teams (Health, NIE, MHPSS, WASH) to be on standby for deployment and augmentation of services.
- c. Advised Human Resource Management for Health to be available on their catchment areas to augment health services and establish health assistance desk once evacuation starts.
- d. Coordinated and activated monitoring with all PDOHO and HEMS Point Persons for any untoward incident.
- e. Coordinated with DOH retained hospitals and other attached agencies including entry and exit points.
- f. Coordinated with other Regional agencies including, PCG, PPA, RDRRMC, OCD, LGUs, PNP station, and other stakeholders.
- g. Advised PDOHO to render duty at the PDRRMO Operations Center and to ensure seamless and effective multi-agency coordination for the potential effects brought by STS “PAOLO” in their respective catchment areas.
- h. Also, coordinated with HEMS-PHO, Ports Authority, Philippine National Police, P/MDRRMOs, DOH Retained Hospital and Human Resource Management for the period of “PAOLO”.
- i. Coordinated with General Services Unit for the inventory of transportation assets in the Regional Office; Provincial DOH Offices and DOH retained hospitals; Logistics Management Unit in relation to the availability of essential drugs/medicines and medical supplies; HEMS Coordinators in the Provinces of MIMAROPA and advised to proactively coordinate with RO HERO OpCen for the daily situation updates, and Philippine Air force 505 Search and Rescue for the utilization of Air Medical Services in the Provinces of MIMAROPA as contingency for Air Medevac; Regional Epidemiology Surveillance Unit (RESU) MIMAROPA and advised to send Event-Based Surveillance and Response (ESR) updates and notifiable diseases; and Health Promotion Unit MIMAROPA to disseminate and establish health information kiosk to areas of gathering.
- j. Advised PAMAS Air Ambulance Services through the Provincial DOH-Palawan for possible utilization of air evacuation.
- k. Prepositioned drugs, medicines and medical supplies in strategic areas and areas of concern amounting to ₱2,505,930.96
- l. Prepositioned water disinfectants for the onset of rainy season amounting to ₱ 425,000.00.
- m. Prepositioned collapsible jerry cans for the onset of rainy season amounting to ₱1,111,880.00.

DOST MIMAROPA

- a. Provided updates to LGUs and uploaded reports on Facebook page thru DOST Provincial Science and Technology Center (PSTC).
- b. Monitored Automatic Rain Gauges and Water Level Monitoring Station in MIMAROPA as source of data thru "Project NOAH" and "PREDICT" website.

Department of Public Works and Highways (DPWH) MIMAROPA

- a. Alerted all maintenance crew of the District Disaster Risk Reduction and Management Teams to monitor condition of national roads and bridges and other infrastructure facilities.
- b. Placed all equipment on standby status for easier mobilization as situation warrants.

COAST GUARD DISTRICT SOUTHERN TAGALOG

- a. Advised all CG stations and substations to ensure strict implementation of Guidelines on the movement of vessels during heavy weather (HPCG Memo Circular 01-09) and in the absence of weather bulletin in the locality (HPCG Memo Circular 03-01).
- b. Placed all assets on standby status ready for deployment on flood-prone and coastal areas.
- c. Coordinated with LGUs, and other government agencies.
- d. Monitored the situation in respective AORs.
- e. Ensured the operational status of HF and VHF radio communications in support to the province operational concern in case of power black-out.

COAST GUARD DISTRICT PALAWAN

- a. Advised all CG station and substation to ensure strict implementation of Guidelines on the Movement of Vessels during heavy weather (HPCG Memo Circular 01-09) and in the absence of weather bulletin in the locality (HPCG Memo Circular 03-01).
- b. Prepared PCG boarding teams, SAR assets and Deployable Response Group (CDRG) Teams and closely monitored maritime traffic and weather condition for prompt, sustained, and effective implementation of existing command policies, rules and regulations, and doctrines.
- c. Placed assets on standby status ready for deployment on flood-prone and coastal areas.
- d. Placed Deployable Response Groups (DRGs) on standby status 24/7.

Police Regional Office MIMAROPA

- a. Ensured the availability of search and rescue assets and personnel.
- b. Alerted all Police Provincial Office down to lower units to monitor the situation in respective AORs.
- c. Coordinated with PAGASA, PDRRMC, and other agencies.
- d. Directed all lower units to undertake precautionary measures and other disaster preparedness activities such as the following:
 - Strengthen resilience of emergency communications.
 - Ensure readiness of the SRR equipment and supplies to support operational requirements (e.g. rubber boat, utility rope, floating device, multi-tool items, 30L of FOL for generator, flashlights with extra battery, communications equipment, first aid kit, and MRE).
 - Forward deployment and pre-positioning of Search and Rescue (SAR) assets.
 - Coordinated with Local DRRM.

- Activate Disaster Incident Management Task Groups (DIMTG) as the situation may require.

Bureau of Fire Protection (BFP) MIMAROPA

- Coordinated with LGUs, NGOs, and other government agencies to support the operational activities.
- Coordinated with Police Forces, Barangay Officials, Tanods, and Citizen Crime Watch to provide security to the evacuation centers.
- Alerted all BFP personnel for any disaster related response.
- Prepared all trucks and response asset for easier mobilization.

CDRRMC PUERTO PRINCESA CITY, PALAWAN

- Distributed 125 food packs to the affected families of Brgy. Maoyon, Puerto Princesa City regarding the flooding incident.

MDRRMCs RIZAL and SAN JOSE, OCCIDENTAL MINDORO and MDRRMC BUSUANGA, PALAWAN

- Activated the Emergency Operations Center.

MDRRMC BULALACAO, ORIENTAL MINDORO

- Provided hot meals to evacuees of Sitio Tabuk, Brgy. Poblacion, Bulalacao, Oriental Mindoro.

3. REGION V

OCD V

- Attended NDRRMC PDRA Meeting thru Skype on 17 October 2017 at Handyong Hall, OCD V, Camp Ola, Legazpi City.
- OCD V OPCEN was placed on BLUE alert status on 17 October 2017 for Typhoon "PAOLO" and Low Pressure Area.
- Disseminated Weather Advisory thru SMS.
- Monitored and coordinated with Local DRRMCs and Response Agencies.

DOST PAGASA

- Provided weather updates/advisories including localized updates and continuously monitored the weather.

DSWD V

- Prepared 6,408 family food packs at DSWD Warehouse ready for prepositioning to LGUs if the need arises.
- Placed on standby funds amounting to ₱3,517,710.34.
- Prepared food items were NFA Rice (227 sacks), corned beef (107 boxes and 20 tins), sardines (43 boxes and 4 tins), and coffee (32 boxes and 186 pieces) and non-food items were malongs (46,942 pieces), laminated sacks (394 rolls), blankets (54,832 pieces), and dignity kits (7,327 pieces).
- Provincial Action Team (PAT) and Municipal Action Team (MAT) members were placed on standby and were instructed to coordinate with the P/MDRRMOs for status reports and updates.

PDRRMC Sorsogon

- Monitored and updated the weather disturbance thru InfoBoard and InfoSys.
- Coordinated with different Council Members for possible implementation of appropriate contingency plans.
- Dispatched relative information and updates obtained from PAGASA.
- Plotted the coordinates provided by PAGASA to view the path of the typhoon.

- e. Ensured clear lines of communication with all DRRMOs for updates and coordination processes.
- f. Monitored further developments in the AOR.

Albay, Camarines Norte, Camarines Sur, Masbate, and Catanduanes

- a. Monitored the situation within respective AORs.
- b. Disseminated weather advisories.

CDRRMC Naga City

- a. Monitored the situation in respective AOR.
- b. Disseminated the weather advisories.

4. REGION VI

OCD VI

- a. Disseminated the Weather Updates to key members of RDRRMCs and LDRRMCs.
- b. Monitored the AOR.

DSWD VI

- a. Distributed 806 food packs as augmentation on 21 October 2017 for the evacuees in the Municipality of Ilog, Negros Occidental.

DPWH VI

- a. Monitored all national roads and bridges within AOR.
- b. Prepared all equipment and crew for deployment in case of emergency.

PDRRMC Antique

- a. Monitored the water level and area of responsibility.
- b. Facilitated the distribution of food packs for the evacuees in the evacuation centers.

PDRRMC Capiz

- a. Operations Center monitored the weather situation in the whole province.
- b. All CDRRMOs and MDRRMOs monitored its AOR.
- c. Coordinated with Provincial DILG for incident/update or actions taken by PDRRMC OpCen.

MDRRMC Oton, Iloilo

- a. Monitored area of responsibility.

MDRRMC of Ilog, Negros Occidental

- a. Evacuated affected families to evacuation centers on 19 October 2017.
- b. Rescuers were placed on alert and standby.
- c. Received 147 food packs from LGUs on 19 October 2017.

5. REGION VII

OCD VII

- a. Coordinated with Local DRRM Officers regarding the status of its AOR.
- b. Coordinated with the Philippine Coast Guard in relation to the cancelled incoming and outgoing trips in Central Visayas.

PCG

- a. Monitored and cancelled the incoming and outgoing trips in Central Visayas.
- b. Prepositioned Special Operations Group for deployment.

PDRRMC Bohol

- a. Alerted all City/ Municipality and monitored any untoward incident.
- b. Placed all SRR Team on standby status.

PDRRMO Cebu

- a. Placed all SRR Team on standby status due to heavy rains.

MDRRMC Tudela

- a. Notified all Brgy. Captains re Typhoon "PAOLO".
- b. Placed all SRR Team on standby status.
- c. Conducted clearing operation in all river/water passage way.

CDRRMC Cebu City

- a. Conducted regular broadcast thru 2-way radio to all Brgy. Responders for constant monitoring and appropriate action in case of flood and landslide.
- b. Conducted periodic check by C-3 with partner agencies.

6. REGION VIII**OCD VIII**

- a. Placed on BLUE Alert Status.
- b. Disseminated Weather Advisories and General Flood Advisories to RDRRMCs, PDRRMCs, CDRRMCs, LGUs, Local Radio Station, and line member agencies through SMS, infoBoard, facsimile, and uploaded the same to OCD RDRRMC MIMAROPA Facebook and Skype accounts to ensure widest dissemination of these advisories.
- c. Coordinated with response agency and monitored weather situation within AOR.

DSWD VIII

- a. DSWD was placed in skeletal force even with the suspension of classes and government work.
- b. Alerted SWAD Teams in all provinces for possible deployment.
- c. Prepositioned 20,000 stocks of relief items ready for augmentation in addition to the previously prepositioned goods in the Local Government Units

DOH VIII

- a. Prepositioned medicines and medical supplies on standby amounting to ₱ 8.2 Million aside from the budget to DOH regular programs.
- b. Monitored the vector disease and leptospirosis cases.
- c. Coordinated with Eastern Samar District Engineering Office in relation to the effects of TY "PAOLO" in the province.

DPWH VIII

- a. Coordinated with Eastern Samar District Engineering Office in relation to the effects of Typhoon "PAOLO" in the province.
- b. Coordinated with contractors for augmentation in response operations if the need arises.

DepEd VIII

- a. Coordinated with all Division DRRM Coordinators to monitor the prevailing weather condition.
- b. Instructed all schools for the safekeeping of pertinent document/vital records of all students.

- c. Disseminated alerts and advisories through Social Media Accounts.

PCG VIII

- a. Issued the Policy in view of the weather disturbance.
- b. Advised fishing boats and vessels not to venture-out to sea.
- c. Coordinated with coastal barangays to not allow fishermen to venture-out to sea.
- d. Placed 2 ERTs on standby and ready for deployment and likewise 2 Aluminum Boats on standby ready for dispatch.
- e. All CGDEV Station Units were advised to ensure strict implementation of HPCG Memorandum Circular Number 02-13 (Guidelines on Movement of Vessels during Heavy Weather) and HPCG Memorandum Number 03-02 (Guidelines on Vessels/Motorboats in the Absence of Weather Bulletin in the Locality).

BFP VIII

- a. Disseminated the information on the present weather condition to all BFP Stations.
- b. Conducted inventory of all BFP equipment and vehicles for possible deployment.

Philippine Army

- a. Activated TASK FORCE AYUDA.
- b. Instructed all brigades and battalions to consolidate and organize its respective DRTs.
- c. Alerted all DRTs in the Brigades and Battalions for possible deployment.

PNP-PRO VIII

- a. Alerted all Police Provincial Offices in the region in view of the present weather disturbance.
- b. All DRTs in all municipalities were available and ready for deployment.

PN (Naval Station Dioscorro Papa)

- a. Monitored the weather condition in the Region.
- b. Placed the vehicles on standby.
- c. Coordinated with HQS for augmentation of Navy Vessel to the region.

TOG VIII, PAF

- a. Placed on standby and readily available for deployment.
- b. Facilitated the aircraft request for deployment in the affected area, if the need arises.

LGU of Palapag, Northern Samar

- a. Raised alert status to BLUE.
- b. Monitored the weather situation through updates and advisories from PAGASA and OCD VIII.
- c. Disseminated the weather information to MDRRMC member agencies and BDRRMCs particularly in the coastal barangays and the general public.
- d. Prohibited the fishing activities through the issuance of MDRRMC Order.

7. REGION IX

OCD IX

- a. Monitored the situation and closely coordinated with Zamboanga DRRMO and DSWD IX for updates.

- b. RDRRMC IX member-agencies were placed on standby.
- c. Conducted ocular inspection in Brgys. Labuan and Vitali.
- d. Attended the emergency meeting in CDRRMC Zamboanga City.

Regional Disaster Management Center in Pagadian City and Regional Satellite Office in Zamboanga City

- a. Manned for 24/7 monitoring, reporting, and dissemination of advisories and updates.

DSWD IX

- a. Provided Family Food Packs to the affected families and in close coordination with the concerned Field Office for updates on the status of the affected families and possible assistances needed.
- b. Conducted assessment within the AOR.
- c. Coordinated with municipalities affected in Zamboanga del Norte on the status of displaced families.

DOH IX

- a. Distributed 200 jerry cans and 5 tents in Brgy. Labuan.
- b. Medicines were available and ready for distribution once requested.
- c. Continuously monitored the situation.

Coast Guard Western Command

- a. Implemented No Sail Policy within the AOR.

MGB

- a. Sent inventory of flood and landslide-prone areas.

E-Media

- a. Distributed food packs, water, and used clothing to the affected families in Brgy. Labuan.

PDRRMC Zamboanga del Norte

- a. Conducted relief operations in the Municipalities of Siocon and Sibuco.

LGU Zamboanga City

- a. Distributed food packs and activated the community kitchen in the affected barangays.

CDRRMC Zamboanga City

- a. Distributed hot meals in Barangays Vitali and Mangusu.
- b. Distributed slippers in Brgy. Labuan.
- c. Conducted emergency meeting discussing the possible declaration of State of Calamity within the City.

MDRRMCs Sibuco and Tungawan

- a. Distributed food packs to affected families.

BDRRMC Labuan

- a. Distributed non-food items, relief goods, water, and food packs to the evacuees in Labuan Central School.

BDRRMC Talisayan

- a. Provided food and non-food items to the evacuees in Talisayan National High School.

8. REGION XII

OCD XII

- a. Monitored the incidents.

MDRRMCs Malapatan and Kiamba, Sarangani

- a. LDRRMCs affected conducted assessment and validation of the extent of damages and distributed food items to the affected families.

MDRRMC Lebak, Sultan Kudarat

- a. All affected BDRRMCs conducted assessment and validation in respective AORs.
- b. Deployed SAR groups and volunteers with BFP and PNP to conduct evacuation of the affected families.
- c. Conducted RDANA on the affected areas.
- d. Provided food packs to IDPs.
- e. MDRRMC convened on Monday, 23 October 2017 and discussed the alternative livelihood programs and relocation of affected families.
- f. PDRRMO Sultan Kudarat conducted medical mission and distributed rice assistance to affected families on 26 October 2017.
- g. DSWD Sultan Kudarat sent 1,590 Food Packs to affected families.

9. CARAGA

OCD CARAGA

- a. RDRRMC Chair advised all LDRRMCs to take precautionary measures for possible occurrence of flooding and landslide within respective AOR and for its local responders to be on standby alert status.
- b. Local DRRMCs were requested to submit situation updates within respective AOR to RDRRMC Operations Center thru SMS, fax, or email.
- c. RDRRMC–OpCen sent weather advisories and bulletins to the Local DRRMCs and other stakeholders in the Region and maintain 24/7 monitoring for situation updates.
- d. RDRRMC Operations Center placed on BLUE Alert Status to continuously monitor the situation for updates and reports on areas affected by the weather disturbances.
- e. Maintained 24/7 monitoring and coordination of incidents with RDRRMC member-agencies and LDRRMCs in the region for situational updates.

DOST-PAGASA CARAGA

- a. PAGASA disseminated General Flood Advisory (GFA) and advised the LDRRMCs to be alert for possible flashfloods and landslides especially those residents in the low-lying areas and mountain slopes.

DSWD CARAGA

- a. DSWD CARAGA prepositioned relief goods strategically in the different parts of the Region and on standby alert status.
- b. Field Offices (FO) through the DReAMU, Social Welfare and Development (SWAD) Teams, and Provincial/City/Municipal Action Teams were instructed to monitor the situation in close coordination with the LSWDOs and LDRRMOs and ensure provision of continuous and timely updates.

DILG CARAGA

- a. DILG Regional Office advised all DILG Provincial Offices on a 24/7 monitoring.

DOH CARAGA

- a. MHO provided medical consultation and pre-emptive evacuation.
- b. Provincial DOH of Agusan del Norte Operations Center was activated.
- c. Provincial and Regional DOH offices were coordinated and monitored the event with the PDRRMO.

PCG CARAGA

- a. Philippine Coast Guard suspended boat trips in all ports of Surigao del Norte including Dinagat Islands on 18 October 2017, 7:00 AM due to strong winds and rough seas brought about by Typhoon "PAOLO".
- b. Lifted the cancellation/suspension of boat trips in all ports of Surigao del Norte and Dinagat Islands on 19 October 2017, 6:00 AM as sea conditions was improved.

PNP, PA, PCG, AND BFP CARAGA

- a. All were placed on 24/7 monitoring and standby status.

LGU – Jabonga

- a. LGU - Jabonga extended ₱2,778.00 each to the families whose houses were totally damaged.

10. ARMM**OCD ARMM**

- a. Coordinated with PDRRMC Sulu and with LDRRMO Jolo, Tapul and Pata re the Strong Wind incident.
- b. Coordinated with PSWDO Sulu re number of affected families/persons.
- c. Coordinated with MDRRMC Sultan Mastura re flooding incident.
- d. LDRRMCs affected conducted assessment and validation of the extent of damages.
- e. Deployed OCD ARMM personnel in Bongao, Tawi-Tawi to lead and assist the RDANA Team during assessment period.
- f. Monitored the situation.

PDRRMC Tawi-Tawi

- a. Conducted Rapid Damage Assessment and Needs Analysis (RDANA) in the affected barangays.

PDRRMC Sultan Kudarat

- a. Provided relief assistance of 1 sack of rice per affected families.

MDRRMC Bongao

- a. Convened an emergency meeting.
- b. Deployed the Bongao Emergency Response Team (BERT) and provided immediate aide to the affected families.

C. COST OF ASSISTANCE

1. A total of **₱4,422,867.30** worth of assistance was provided to the affected families in **Regions VI, VII, IX, XII, and CARAGA**.

Region/Province/ Municipality	Cost of Assistance		TOTAL
	DSWD	LGU	
GRAND TOTAL	3,049,443.30	1,373,424.00	4,422,867.30
REGION VI			
Negros Occidental	290,160.00	322,126.00	612,286.00
Ilog	290,160.00	322,126.00	612,286.00
REGION VII			
Siquijor	8,640.00		8,640.00
Siquijor (Capital)	8,640.00		8,640.00
Negros Oriental	888,883.30		888,883.30
Dumaguete City (Capital)	59,888.00		59,888.00
Siaton	537,219.00		537,219.00
Valencia (Luzurriaga)	291,776.30		291,776.00
REGION IX			
Zamboanga del Norte	735,320.00	245,000.00	980,320.00
Sibuco	565,400.00	245,000.00	810,400.00
Siocon	169,920.00		169,920.00
Zamboanga del Sur	1,126,440.00		1,126,440.00
Zamboanga City	1,126,440.00		1,126,440.00
REGION XII			
Sultan Kudarat	-	803,520.00	803,520.00
Kalamansig	-	231,120.00	231,120.00
Lebak		572,400.00	572,400.00
CARAGA			
Agusan del Norte		2,778.00	2,778.00
Jabonga		2,778.00	2,778.00

Source: DSWD-FO Region VI, IX, XII and DSWD DROMIC Terminal Report on the Effects of Typhoon Paolo, 18 April 2018, 11:00 AM.

**Preparedness Measures and Effects of Weather Disturbances in the Country enhanced by Typhoon "PAOLO"
and a Low Pressure Area (LPA)
15 - 22 October 2017
AFFECTED POPULATION**

Province/Municipality/City/Barangays	AFFECTED			No. of Evacuation Centers	Inside Evacuation Centers		Outside Evacuation Center		TOTAL SERVED-CURRENT (Inside + Outside)	
	Brgys	Families	Persons		Families	Persons	Families	Persons	Families	Persons
GRAND TOTAL	159	33,463	161,975	28	2,697	13,159	24,449	117,225	27,146	130,384
REGION VI	4	3,367	16,835	3	160	800	0	0	160	800
Negros Occidental	4	3,367	16,835	3	160	800	0	0	160	800
<i>Ilog</i>	4	3,367	16,835	3	160	800	-	-	160	800
Region VII	41	1,534	5,857	15	653	3,199	899	2,723	1,552	5,922
Negros Oriental	35	1,495	5,662	14	627	3,069	886	2,658	1,513	18,415
<i>Dumaguete City</i>	14	305	1,504	9	260	1,275	45	229	305	17,085
<i>Siaton</i>	11	259	1,254	2	259	1,254	19	76	278	1,330
<i>Valencia (Luzurriaga)</i>	10	931	2,904	3	108	540	822	2,353	930	2,893
Siquijor	6	39	195	1	26	130	13	65		
<i>Larena</i>	1	26	130	1						
<i>San Juan</i>	4	10	50				10	50		
<i>Siquijor</i>	1	3	15		26	130	3	15		
Region IX	36	6,316	28,574	2	1,520	7,540	3,287	13,405	4,807	12,862
Zamboanga del Norte	21	2,558	10,437	-	0	0	2,114	8,158	2,114	8,158
<i>Sibuco</i>	10	650	2,646	-			650	2,646	650	2,646
<i>Siocon</i>	11	1,908	7,791	-			1,464	5,512	1,464	5,512
Zamboanga del Sur	13	3,170	15,785	2	1,520	7,540	585	2,895	2,105	2,352
<i>Zamboanga City</i>	13	3,170	15,785	2	1,520	7,540	585	2,895	2,105	2,352
Zamboanga del Sibugay	2	588	2,352	-			588	2,352	588	2,352
<i>Tungawan</i>	2	588	2,352				588	2,352	588	2,352
Region XII	6	2,389	11,460	6	344	1,551	426	1,917	770	3,468
Sultan Kudarat	6	2,389	11,460	6	344	1,551	426	1,917	770	3,468
<i>Kalamansig</i>	4	799	3,510	4	336	1,511	426	1,917	762	3,428
<i>Lebak</i>	2	1,590	7,950	2	8	40	-	-	8	40
CARAGA	2	23	79	2	20	69	3	10	23	79
Agusan del Norte	2	23	79	2	20	69	3	10	23	79
<i>Jabonga</i>	1	8	23	1	5	13	3	10	8	23
<i>Santiago</i>	-	-	-	-	-	-	-	-	0	0
<i>Remedios T. Romualdez</i>	1	15	56	1	15	56	-	-	15	56
ARMM	70	19,834	99,170	0	0	0	19,834	99,170	19,834	99,170
Maguindanao	70	19,834	99,170	0	0	0	19,834	99,170	19,834	99,170
<i>Ampatuan</i>	3	646	3,230	-	-	-	646	3,230	646	3,230
<i>Kabuntalan (Tumbao)</i>	17	3,868	19,340	-	-	-	3,868	19,340	3,868	19,340
<i>Mangudadatu</i>	8	3,417	17,085	-	-	-	3,417	17,085	3,417	17,085
<i>Northern Kabuntalan</i>	11	2,960	14,800	-	-	-	2,960	14,800	2,960	14,800
<i>Shariff Saydona Mustapha</i>	5	1,812	9,060	-	-	-	1,812	9,060	1,812	9,060
<i>Sultan Kudarat (Nuling)</i>	16	4,980	24,900	-	-	-	4,980	24,900	4,980	24,900
<i>Sultan Mastura</i>	5	539	2,695	-	-	-	539	2,695	539	2,695
<i>Sultan Sa Borongis (Lambayong)</i>	5	1,612	8,060	-	-	-	1,612	8,060	1,612	8,060

Source: DSWD DROMIC Terminal Report on the Effects of Typhoon Paolo as of 18 April 2017, 11:00 AM
OCD Regions VI, VII, IX, XII, CARAGA, and ARMM

**Preparedness Measures and Effects of Weather Disturbances in the Country enhanced by Typhoon "PAOLO"
and a Low Pressure Area (LPA)**

15 - 22 October 2017

INCIDENTS MONITORED

AREA	DATE/TIME	REMARKS
LANDSLIDE - 3		
CARAGA - 1		
Agusan del Norte		
<i>Brgy. Bangonay, Jabonga</i>	16 October 2017, 8:00 PM	Heavy rains caused landslide along National Highway in P-4, Brgy. Bangonay. 3 houses were totally damaged. The area was cleared of debris on 18 October 2017, 6:00 PM.
MIMAROPA - 2		
Palawan		
<i>Brgy. Napsan, Puerto Princesa City</i>	17 October 2017, 7:00 AM	A landslide incident occurred along the national road due to continuous heavy rains. DPWH District Office conducted clearing operations to clear the road of debris. On 17 October 2017, 10:00 AM, the road passable to all types of vehicles. No reported casualties/damages.
<i>Brgy. Buenavista, Puerto Princesa City</i>	17 October 2017, 7:00 AM	A landslide incident occurred along the city road due to continuous heavy rains. Clearing operations was conducted by City Engineering Office. On 17 October 2017, 1:00 PM the road was already passable to all types of vehicles. No reported casualties/damages.
FLOODING/FLASHFLOOD - 9		
MIMAROPA - 3		
Palawan		
<i>Purok Reynakan and Purok Damayan, Brgy. Maoyon, Puerto Princesa City</i>	17 October 2017, 6:00 AM	Heavy rains caused 1.8 m flooding in Brgy. Maoyon. A total of 45 individuals were affected and were evacuated to Brgy. Hall of Maoyon. On 17 October 2017, 9:00 PM, flood waters have subsided and evacuees have returned to their homes.
Oriental Mindoro		
<i>Brgys. Cambunang, Campaasan, and Nasukob in Bulalacao</i>	20 October 2017, 1:00 PM	A flooding incident was reported in the intersection of Barangays Cambunang, Campaasan, and Nasukob. Flood waters were approximately 0.5 meters deep. There were no reported evacuees. On 21 October 2017, flood waters already subsided.
Occidental Mindoro		
<i>Brgy. Poblacion, Magsaysay</i>	20 October 2017, 11:00 AM	Flood waters were approximately 0.2 meters deep. On 21 October 2017, flood waters already subsided.
REGION IX - 3		
Zamboanga City		
<i>Eighteen (18) Barangays</i>		A total of 18 barangays in Zamboanga City were affected by flashflood brought about by heavy rainfall due to ITCZ.
Zamboanga del Norte		
<i>Siocon and Liloy</i>	16 October 2017,	Flooding incidents occurred due to overflowed rivers (Mucas River in Liloy, and Siocon and Pisawak Rivers in Siocon).

AREA	DATE/TIME	REMARKS
<i>Sibuco</i>	15 October 2017, 12:00 AM	Rivers swelled due to moderate to heavy rainfall. River beds can no longer contain the water which caused the flooding in nearby houses in Brgys. Malayal, Lintangan, Cusipan, Poblacion, and Puliran.
REGION XII - 1		
Sultan Kudarat		
<i>Brgy. Kalamongog, Lebak</i>	18 October 2017,	Brgy. Kalamongog was flooded due to heavy rains.
CARAGA - 1		
Agusan del Norte		
<i>Brgys. Bangonay in Jabonga, Brgy Poblacion 1 (Agay) in Remedios T. Romualdez, and Brgys. Poblacion 2, Pangaytan, Kasagatan</i>	16 October 2017, 8:00 PM	Barangays in Santiago, Agusan del Norte were flooded after a heavy downpour. On 18 October 2017, 6:00 PM water have already subsided.
ARMM - 1		
Maguindanao		
<i>Sultan Mastura</i>	21 October 2017	Water level in Simuay River has gradually increased due to continuous rains which caused flooding in low-lying barangays in Sultan Mastura, Maguindanao. On 24 October 2017, flood water is below knee-level and has affected 5 barangays near Simuay River.
STRONG WINDS / BIG WAVES - 6		
REGION IX - 1		
Zamboanga City		
<i>Brgys. Lingayon, Limpapa, Lambaguan, Mantivoh, Anongan, and Cawit-Cawit</i>	15 October 2017,	Coastal barangays Zamboanga City were hit by big waves.
REGION XII - 3		
Sultan Kudarat		
<i>Coastal Brgys. of Kalamansig</i>	19 October 2017, 6:00 AM	Big waves brought about by strong winds and heavy rainfall was experienced in 3 coastal barangays of Kalamansig. As a result, pre-emptive evacuation was conducted. Affected families are currently staying at 3 evacuation centers.
<i>Lebak</i>	18 October 2017, 5:00 PM	6 coastal barangays in Lebak were affected by big waves due to strong winds. The incident resulted to damaged houses and evacuation of affected families.
Sarangani Province		
<i>Coastal Brgys. of Kiamba and Malapatan</i>	18 October 2017, 6:00 PM	Big waves brought about by strong winds and heavy rainfall was experienced in the coastal barangays of Kiamba and Malapatan in Sarangani Province. A total of 87 families / 434 persons were affected and 54 families were evacuated in Barangay Evacuation Centers while some opted to stay with their relatives.

AREA	DATE/TIME	REMARKS
ARMM - 2		
Sulu		
<i>Tapul, Jolo, Kalingalang Caluang, and Pata</i>	16 October 2017	Houses were reported damaged in the municipalities of Sulu due to strong winds and big waves brought about by ITCZ.
Sultan Kudarat		
<i>Brgy. Crossing Simuay</i>	27 October 2017	Houses were reported damaged in Barangay Crossing Simuay due to strong winds. Affected families stayed at Barangay Simuay Crossing Day Care Center.
OTHERS - 1		
MIMAROPA - 1		
<i>Occidental Mindoro</i>	18 October 2017	Lightning incident transpired in Brgy. Adela, Rizal, Occidental Mindoro which cause the death of 1 resident. He was immediately brought to Rizal Health Unit but declared dead on arrival by the attending physician.

Source: OCD Region MIMAROPA, IX, XII, CARAGA, and ARMM