

# NATIONAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL

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

## NDRRMC UPDATE

Sitrep No. **15** re: Preparedness Initiatives and Effects of Typhoon “CHEDENG” (SONGDA)

Releasing Officer

  
**USEC BENITO T RAMOS**  
 Executive Director, NDRRMC  
 and Administrator, OCD

**DATE : 31 MAY 2011, 5:00 PM**

Sources: PAGASA-DOST, DSWD, DOH-HEM, DSWD-DROMIC, PIA, PCG, PNP, AFP, PIA, PRC, RDRRMCs/OCDRCs I, II, III, IV-A, IV-B, V, VI, VIII, IX, X, NCR, CAR, ARMM

### I. SITUATION OVERVIEW:

**A. CHRONOLOGY OF TYPHOON “CHEDENG” (SONGDA) -(See details [Tab A](#))**

**B. EFFECTS OF TYPHOON “CHEDENG”**

#### 1. INCIDENTS MONITORED

- There were **18** incidents on flooding/flashflood, landslides, cave-in tunnel and **maritime incident** monitored in Regions V, IX, X, XI, ARMM and CAR 11 as a result of continuous heavy rains caused by the southwest monsoon enhanced by Typhoon Chedeng (See details on [Tab B](#))

#### 2. AFFECTED/EVACUATED POPULATION (See details on [Tab C](#))

- A total of **91,767 families / 446,907 persons** were affected in **518** barangays of **53** municipalities and 7 cities in **12** provinces of Regions **II, V, IX, X, XI, ARMM** and **NCR**
- **Of the total number affected, there were 49,349 families/ 225,694 persons evacuated to 231 evacuation centers**
- **As of May 31, 2011, there are still 22 families /90 persons staying in Gawad Kalinga Building in Taguig City because Brgy Bagumbayan is still flooded**

#### 3. CASUALTIES (dead - 4)

##### Region V

- **Jaime Torillos**, 70 years old of Brgy. Biong, Gigmoto, Catanduanes in Region V who died on May 25, 2011 due to drowning
- **Emmanuel Macaro**, 27 years old of Sula, Vinzons, Camarines Norte who died on May 25, 2011 due to drowning

##### CAR

- **Mercedes Jose**, 48 years old of Bokes, Brgy. Sagpat, Kibungan, Benguet died due to landslide
- **Joey Marcos**, 20 years old who was trapped inside the tunnel in Sitio Liwliw, Tuba, Benguet.

#### 4. DAMAGES

##### 4.1 Houses

- **A total of 131 houses were damaged in Regions X, XI and ARMM**
  - 83 Totally (18 in Malaybalay, 37 in Cabanglasan, 1 in Valencia City, all in Bukidnon and 27 in **Sto Tomas**, Davao del Norte)
  - 48 Partially (24 in Malaybalay and 19 in Cabanglasan all in Bukidnon and 5 in **Lanao del Sur**)
- The estimated cost of damage to houses amounted to PhP4,622,000.00

##### 4.2 Agriculture and Infrastructure – PhP 14,311,499.00

###### Agriculture

###### Bukidnon

Malaybalay - PhP1,422,000.00

###### Davao del Norte

Sto. Tomas - PhP5,526,358.00 (983 hectares)

San Isidro 100,000.00

Braulio Dujali 3,197,016.00

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Total PhP8,823,374.00

###### Infrastructure

###### Davao del Norte

*Sto Tomas and Carmen* - PhP5,488,125.00

##### Region X

- Hanging bridge in Brgy Capinonan, Cabanglasan, Bukidnon was totally washed out

##### ARMM

- A steel bridge in Brgy. Delausan, Ditsaan Ramin, Lanao del Sur was partially wrecked

## II. EMERGENCY MANAGEMENT

### A. DISASTER RESPONSES

#### 1. WARNING AND INFORMATION DISSEMINATION

##### NDRRMC–OpCen

- Disseminated Severe Weather Bulletin on Typhoon “CHEDENG” (SONGDA) to all OCD Regional Centers through SMS and facsimile and uploaded same at the NDRRMC website, facebook and twitter accounts for further dissemination to their respective local DRRMCs from the provincial down to the municipal levels
- Disseminated PAGASA’s General Flood Advisories for Ilocos Region, Cagayan Valley, Central Luzon, CALABARZON, MIMAROPA, Bicol Area, Western Visayas, Central Visayas, Eastern Visayas, Zamboanga Peninsula, Northern Mindanao, Davao Region, SOCCSKSARGEN, CARAGA, Cordillera Administrative Region, and ARMM to the local DRRMCs of Region I, Region II, Region III, Region IV-A, Region IV-B, Region V, Region VI, Region VII, Region VIII, Region IX, Region X, Region XI, Region XII, CARAGA, CAR and ARMM thru SMS, fax and uploaded at the NDRRMC website, facebook and twitter account
- Disseminated Weather Advisories and GALE Warnings to All Chairpersons, PDRRMCs, RD, OCDRCs
- Directed RDRRMCs concerned through the OCD Regional Centers to undertake precautionary measures in their area of responsibility (AOR) and subsequently

advised local DRRMCs to initiate pre-emptive evacuation of families in low-lying and mountainous areas if situation warrants

- **USEC Benito issued Memorandum No. 217 directing the Regional Directors of Regions II, III, IV-A, V and VIII to continue monitoring the effects of Typhoon Chedeng in their respective area of responsibility (AOR) in view of the possible Fujiwara effect that may occur in the movement of said weather disturbance**

#### **DOTC**

- Advised Communication Groups to prepare their communication equipment

#### **PIA**

- Central Office and regional offices exchanged and disseminated advisories from PAGASA-DOST, NDRRMCs and PDRRMCs as well as posted situationers from Albay, Samar, NCR, Northern Luzon and Mindanao on Weather Watch (PIA FB account)
- Aside from sharing regional situationers, PIA disseminated advisories and stories from NDRRMC to the provinces as well and posted on-line video interviews of NDRRMC Executive Director USEC Ramos appealing to travelers to defer trips to areas under Public Storm Signals and other activities done by the council and local counterparts
- PIA RO 8 continuously disseminate advisories to all local radio and television stations

#### **NTC**

- NTC Region I alerted its accredited Civic Communication Groups to assist on communication concerns

#### **DENR-MGB**

- Reiterated information and education campaign on areas vulnerable to landslide in CAR and issued advisories on areas vulnerable or susceptible to various types of geohazards due to Typhoon "Chedeng" in Region IV-B

## **2. SEARCH and RESCUE, EVACUATION OPERATIONS**

#### **AFP**

- **TOG-5** & 505 personnel with SAR equipment on board KIA Troop Carrier attended the mustering of Disaster Response Units (DRUs) at Camp Angeles, San Jose, Pili, Camarines Sur, an initial move and planning activity to carry-out assets much closer to the theater of operations, to give more support to the evacuation efforts by LGUs rather than rescue operation; support ongoing disaster response operations in the region spearheaded by both RDRRMC and PDRRMC Albay; attended the joint RDRRMC and PDRRMC Albay emergency meeting re: preparations for potential effects of Typhoon "Chedeng"; hosted and accommodated NFSL Commander, 9ID Deputy Commander, and OCD RD to discuss the deployment of SAR personnel and equipment ; and delivered 11 sacks of assorted relief goods at Brgys Magpanambo, Cotnogan and Matacon all in Polangui, Albay and three (3) sacks of assorted relief goods to the evacuees in Brgy. Kagawad Ramos
- **NAVFORSOL** directed Acting Naval Reserved Command Center - Southern Luzon to activate Reservist/BN to coordinate with LGUs for necessary assistance; coordinated with different LGUs in NFSL AOR and monitored the activities of DRRTs deployed in Camarines Sur and Polangui, Albay; proceeded to Polangui High School evacuation center and distributed meals to 293 families/1,305 persons; conducted relief operations and hauled 50 sacks of rice from APSEMO to Polangui for the evacuees in the area. Its floating assets were placed on stand by for possible SAR and relief operations (PG 112 and DF338 at Burias Pier, Masbate; and PG 378 at Legazpi Pier, Legazpi City); DRRT stationed at Polangui, Albay conducted relief operations and distributed sacks of rice from Polangui Sangguniang Bayan Hall: 18 sacks to Polangui

Campus Evacuation Hall, 20 sacks to Brgy Catnogan, Polangui, and 28 sacks to Brgys Sugcad and Lanugay.

- **2ID, PA DRTUs** deployed one (1) M35 truck with one (1) NFSL DRT aboard to San Fernando and Milaor, Camarines Sur
- **AFP Region I** implemented “OPLAN SARANAY”, a coordination tool in mobilizing AFP assets for emergency response and placed its manpower and resources on alert status
- **AFP CAR** collaborates with local DRRMCs in the pre-emptive evacuation

#### **PCG**

- **PCG Unit Commanders** in Regions V and VIII continuously monitored the status of stranded passengers and vehicles in all ports; rendered assistance to stranded passengers in coordination with local port authorities and shipping companies; and declared Full Alert Status to ensure preparedness and readiness
- **PCG HQ** disseminated PCG Memorandum Circular No. 01-09 to reiterate the following guidelines on the movement of vessels during heavy weather:
  - **PSWS Nr. 1: Vessels of 1,000 gross tons or below shall not sail, except to take shelter**, when PSWS No. 1 is hoisted within the point of origin or route or point of destination. On the other hand, movement of vessels above 1,000 gross tons is left to the discretion and responsibility of the ship owner and master when PSWS 1 is hoisted within its point of origin or route or point of destination
  - **PSWS Nr 2: Vessels of any tonnage shall not sail, except to take shelter**, when PSWS No. 2 or higher is hoisted within its point of origin or route or point of destination
- **PCGA 905<sup>th</sup> Squadron** in Catanduanes assisted in dissemination campaign for pre-emptive measures with PDRMMC and LGUs
- **PCG I** activated all its District Operations Centers and all WASAR Teams in AOR for possible response mobilization and advised fisherfolks and other small sea vessels from venturing if given the situation
- **MARINA and PCG VIII** warned all fishing boats and passenger motor bancas not to venture out to the sea
- **PCG IVB** established coordination with RDRRMC; all PCGSTL Response Teams and LGUs for information dissemination regarding the impending typhoon so that fishermen and all watercrafts will not sail and for the immediate recall to those who are already at sea
- **PCG VIII** issued Advisory on the cancellation of all RORO Vessels plying Allen/San Isidro-Matnog route since 3:00 AM, 25 May 2011.
- **PCG V** announced the resumption of all trips bound for Catanduanes, Masbate, other ports and RORO vessels plying along Matnog route

#### **PNP**

- **PNP-NHQ** activated its National Disaster Operation Center (NDOC) effective 0800H 25 May 2011 manned by PNP Sub-Committee on Disaster Management (PNPSCDM)
- **Directorate for Police Community Relations** sent a directive to all PNP Units to undertake precautionary measures and other disaster response activities to wit: Forward deployment and pre-positioning of SAR assets; inform/warn community leaders on necessary disaster preparations/actions, giving emphasis on pro-active actions (evacuation rather than rescue); coordination with the local DRRMC; activation of respective Disaster Incident Management Task Group (DIMTG); Police assistance in the evacuation of affected residents and deployment of personnel at the evacuation centers; clearing of major thoroughfares and highways in coordination with DPWH and LGUs; and assistance to medical and relief operations
- **COP Ditsaan Ramain MPS** in Lanao del Sur coordinated with the MDRRMC to form a SAR Team to assess and control the prevailing situation in the area
- **PNP 1** pre-positioned its manpower, land transportation and water craft

- **PNP CAR** assisted the LGUs in the dissemination of alert notices and in pre-emptive evacuation
- **PNP Maconacon, Isabela** provided security at the evacuation areas within AOR

#### DPWH

- **DPWH V** deployed DRRM assets to all Engineering Districts in all provinces of Region V such as: 28 Dump Truck, 6 Stake Truck, 13 Payloader, 9 Road Grader, 1 Bulldozer, 1 Backhoe, 1 Forklift, 1 Trailer, 1 Mighty Mite, 1 Boom Truck, 1 Shuttle Bus, 23 Chainsaws and 811 manpower
- **DPWH CAR** pre-positioned 76 (owned by government and private) heavy equipment and manpower at the landslide prone areas and activated their District Disaster Quick Response Team and monitor status of road condition in AOR

#### BFP

- Alerted all its emergency Response Teams, fire trucks and manpower for possible mobilization

### 3. RELIEF AUGMENTATION / OPERATIONS

#### DSWD

- Disaster Response Operations and Monitoring Information Center (DROMIC) closely coordinated with the DSWD-FOs for significant reports
- DSWD-CO **sub-alloted PhP12.5 Million as additional fund to DSWD FO V to purchase 10,000 sacks of NFA rice for the victims of Typhoon Chedeng and pre-positioned PhP3.70 Million standby funds and PhP50.42 Million worth of relief supplies for DSWD-FOs lying along the typhoon path with a total amount of PhP54.12 Million in the event of any type of disaster**

Field Office	Standby Funds	Relief Supplies	Total
II	PhP300,800.00	PhP6,299,430.20	PhP6,600,230.20
III	PhP300,163.37	PhP5,498,625.17	PhP5,798,788.54
IV-A	PhP385,190.50	PhP13,705,097.50	PhP14,090,288.00
V	0	PhP23,713,241.44	PhP23,713,241.44
VIII	PhP2,415,609.28	PhP570,350.00	PhP2,985,959.28
IX	PhP300,156.50	PhP629,811.50	PhP929,967.50
<b>TOTAL</b>	<b>PhP3,701,919.00</b>	<b>PhP50,416,555.81</b>	<b><u>PhP54,118,474.96</u></b>

- **DSWD Field Offices** pre-positioned the following relief commodities to the following LGUs as pro-active stance totally amounting to **PhP485,000.00**:

Region	LGUs/Beneficiary	Particulars	Amount (in Pesos)
Region IV-A	NTSB-Tanay, Rizal	200 family food packs @ PhP250.00/pack	PhP 50,000.00
	Cainta, Rizal		PhP 50,000.00
	Taytay, Rizal		PhP 50,000.00
	Calamba City, Laguna		PhP 50,000.00
	Taytay, Rizal	100 packs of used clothing @PhP250.00/ pack	PhP 10,000.00
	Binangonan, Rizal	100 family food packs @P250.00/pack	PhP 25,000.00
	<b>TOTAL</b>		<b>PhP235,000.00</b>
Region VIII	Eastern and Northern Samar Provinces	1,000 family food packs @ PhP250.00	PhP250,000.00
<b>TOTAL</b>			<b>PhP485,000.00</b>

- **DSWD-FO IV-A** pre-positioned relief commodities worth PhP100,000.00 family food packs and 100 family food packs each in the Home for Girls in Dasmariñas, Cavite, Haven for Women in Rosario, Cavite and SWAD in Quezon Province
- **DSWD V** released PhP7,701,494.06 worth of relief goods to the affected families in Albay, Camarines Sur and Sorsogon; 100 sacks of NFA rice assistance worth PhP135,000.00 to the strandeers in Bulan, Sorsogon; **and provided 100 sacks of rice to the LGU of Lagonoy, Camarines Sur and PhP2,000.00 financial assistance to the immediate family of Jaime Torillos who died due to drowning**

Region	LGUs	Type of Assistance	Cost (Pesos)
V	Albay Province thru Gov. Salceda/PSWDO	5,000 sacks of rice @P1,350.00/sack	6,750,000.00
	OCD-V/DRR Units	251 family food packs	62,416.17
	Tinambac, Camarines Sur	100 sacks of NFA rice	125,000.00
		200 Family food packs	48,498.00
		500 packs used clothing	50,000.00
		Sub-total	223,498.00
	Bula, Camarines Sur	100 sacks of NFA rice	135,000.00
	<b>Lagonoy, Camarines Sur</b>		<b>148,500.00</b>
	Matnog, Sorsogon	200 sacks of NFA rice	270,000.00
		20 boxes of V. Sausage	31,907.80
29 boxes Corned Beef		42,752.09	
15 boxes of Beef Loaf		12,420.00	
	5 pieces of Tent	25,000.00	
	Sub-total	357,079.00	
Sub-total			7,552,994.06
	Strandeers (Sorsogon)	100 sacks of NFA rice	135,000.00
<b>Total</b>			<b>7,701,494.06</b>

- **DSWD V** also provided/lent 5 tents used as community Kitchen for strandeers in Matnog Port in Sorsogon and provided 251 family food packs to the DRR Units who were assigned/posted in the different rescue points and evacuation centers in the province of Albay
- **DSWD-FO VIII** has pre-positioned 1,100 family packs for Eastern and Northern Samar provinces for any eventuality
- **DSWD-FO IX** augmented **PhP275,000.00** worth of 1,100 family food packs and used clothing to the affected LGU- Molave, Zamboanga del Sur
- **DSWD X** provided 59 family food packs and 59 sets of non-food items (NFIs) such as: blankets, mats, cookwares, mosquito nets, basins and pails to CDRRMC Malaybalay and 55 family food packs and NFIs to MDRRMC Casbanglasan for the flood victims
- **DSWD CAR** pre-positioned 1,000 family food packs and PhP300,000.00 as standby fund in coordination with the local social welfare office
- **DSWD I** pre-positioned 500 family food packs for Ilocos Norte and 500 for Ilocos Sur and identified evacuation centers and assessed the locations of possible area for establishment of community kitchen

#### PRC

- **PRC Chapters** in Pangasinan, La Union, Ilocos Sur and Ilocos Norte stockpiled food packs ready for augmentation to the affected LGUs; all First Aiders and trained volunteers were alerted; and WASAR Teams and emergency resources are on standby

#### DTI

- **DTI I** recommended to the DILG to activate the Price Monitoring Committee

#### 4. HEALTH and WASH

##### DOH

- **DOH-HEMS** conducted inventory of pre-positioned medicines and other medical supplies of the Provincial Health Teams to replenish stocks as needed; released weather advisory to CHD Bicol Officials, PHOs, PHT and Provincial HEMS Coordinators of DOH retained Hospitals; declared Alert Code White in all CHDs; pre-positioned drugs, medicines and medical supplies for augmentation; alerted health emergency teams (on call); and released health advisory on water-borne infections, water treatment/ management and emergency preparedness activities of the communities
- **CHD CAR** activated alert code and provided mutual assistance to hospital in need
- **CHD I** pre-positioned stockpile of medicines, medical responders and health assessment teams at the Regional CHD and four (4) provincial CHDs
- All CHD representatives closely coordinated with their respective MDRRMCs

## **REGIONAL INITIATIVES**

### **Region I**

- **RDRRMC I** conducted Regional DRRMC emergency meeting on 24 May 2011 re preparedness measure of the response agencies and pre-positioning of resources that will augment the LGUs resources; advised all PDRRMCs to prepare their Thuraya communication equipment in case of communication breakdown in their AOR; put all local DRRMCs on alert status and advised them to take appropriate actions for possible flashfloods, landslides and storm surges; and prepared all available logistics for emergency response, relief and evacuation; and continuously disseminated weather updates and precautionary measures through the communication facilities of provincial government, PNP and local broadcast media outlets
- **PDRRMCs** Pangasinan, La Union, Ilocos Sur and Ilocos Norte conducted emergency meetings on 26 May 2011 with focus on proactive actions rather than rescue operations

### **Region II (Final report)**

- **RDRRMC/OCDR2-OpCen** coordinated with PDRRMCs Cagayan, Quirino and Isabela on their respective preparedness measures and current situation
- **All PDRRMCs** alerted their DRRMCs and available rescue groups including the 17IB and the 501<sup>st</sup> BDE, PA, PCG, and PNP for possible rescue operations and other **member agencies for possible assistance and prepositioned food, non-food items and rescue assets**
- **PDRRMCs Cagayan, Isabela, Quirino, Nueva Viscaya and Batanes established their respective Advance Command Post manned by respective DRRMCs**
- **PDRRMC Cagayan** conducted disaster preparedness meeting on May 25, 2011 and discussed updates on preparedness, pre-positioning and deployment of rescue assets, communication and rescue teams and pre-positioned Rescue 29 team with provincial dump trucks in strategic areas at Bangag, Lallo Sub-Capitol and Sta. Teresita Municipal Hall
- **PDRRMC Batanes** convened local DRRMCs re preparedness measures on Typhoon "Chedeng"; and secured small vessels in safer areas while larger vessels were alerted against big waves

### **Region III**

- **OCD III** continuously disseminated weather advisory to all PDRRMCs concerned
- RDRRMC Member Agencies, Disaster Action Officers and Provincial/City/Municipal Civil Defense Deputized Coordinators together with RD of NEDA, DSWD and PRO3 were convened on 26 May 2011 wherein members were reminded on the SOPs provided under the Regional Contingency Plan

### **Region IV-A**

- **RDRRMC IV-A** issued Memorandum to Chairpersons of PDRRMCs and C/MDRRMCs Cavite, Laguna, Rizal and Quezon re: Reiteration of Response Preparedness re:

Typhoon “Chedeng” to ensure appropriate response preparedness measures re: TS “Chedeng” such as: Activation of DRRM OpCen; convening of local DRRMCs; Implementation of local Contingency Plans; alerting of response teams; activation of evacuation centers; stockpiling of food, NFIs and medicines; conduct of pre-emptive evacuation in highly vulnerable areas; and pre-positioning of response assets.

- **PDRRMC Quezon** convened its members on 26 May 2011 and discussed the preparedness measures of the province.

#### **Region IV-B**

- **RDRRMC IV-B** disseminated Severe Weather Bulletins, General Flood Bulletins/Advisories, and GALE Warning to the Provincial Disaster Risk Reduction and Management Offices (PDRRMOs) and RDRRMC Core Group Members through facsimile and SMS and monitored the roll-on-roll-off port operations and road conditions

#### **Region V**

- **RDRRMC V** issued the following countermeasures to achieve zero casualty in the area:
  - Suspension of work in both public and private offices except those involved in disaster preparedness and response, to enable them to have enough time to return to their families and prepare for the possible effects of Typhoon “Chedeng”
  - Pre-emptive evacuation of 13,322 families or 63,964 persons in 152 barangays in Albay Province as of 1:00 PM 25 May 2011
  - Early procurement of basic household supplies such as candles, rice, canned goods and others
  - Prepare evacuation kits for those residing in the danger zone
- **PDRRMC Albay** reiterated the following policies: No sailing to sea for small passenger seacrafts and fishing boats especially small fisherfolks; No crossing of all river channels, spillways and other waterways; No work policy except banking institutions and malls as they are essential support to maintain resource capacity generation to mitigate effects of the typhoon; maintained the evacuation of population-at-risk while the rainband and the enhanced Southwest Monsoon pose threat in terms of rainfall that may cause flood and landslide in the vulnerable areas of the province; and declared Albay Province under a State of Calamity through SP Resolution No. 38-2011
- **PDRRMC Sorsogon** disseminated the warning information to all MDRRMCs within the province thru fax and e-mail directing all BDRRMCs to activate and take necessary precautions; placed the province under Yellow Alert urging residents to be prepared for any eventuality to take pre-emptive evacuation if and when unusual rise in water level is observed especially in low-lying areas; conducted emergency meeting on May 24, 2011 wherein all PDRRMC members committed to perform timely disaster response giving top priority to the people’s safety; instructed DepEd to coordinate with the LGUs to make school classrooms available ready for evacuees; and keep all equipment, support vehicles and other assets ready for operations
- **PDRRMC Camarines Sur** pre-positioned food packs for Siruma (1,000); Garchitorena (2,000) and Balatan (500) and mobilized 6 trucks from PA for use in the transport of food packs that were pre-positioned at Siruma, Garchitorena and Balatan. **MDRRMC Balatan** conducted pre-emptive evacuation while **MDRRMC Bula** convened and organized a functional Task Group and pre-positioned transportation for evacuation purposes
- **PDRRMC Masbate** conducted an emergency meeting and the City government of Masbate and PRC extended food assistance to stranded passengers
- **PDRRMC Catanduanes** conducted regular situation check thru all means of communications to pass information to LGUs and provided food assistance to stranded passengers

- **PDRRMCs and NGOs in Bicol Region** provided assistance worth PhP190,000.00 to the affected families

#### **Region VI**

- **OCD VI** alerted all six (6) PDRRMCs and two (2) HUCs-CDRRMCs to continuously monitor the status of major river systems in their respective AORs

#### **Region VIII**

- **RDRRMOC** continuously monitored the critical areas of the region
- **CDRRMC Calbayog City, Samar** activated and warned coastal and mountainous side barangays to take precautionary/pro-active measures
- **MDRRM Catarman, Northern Samar** activated its OpCen and conducted emergency meeting among response group
- **PDRRMC/MDRRMC Allen, Samar** distributed food packs to the strandeers

#### **Region IX**

- **PDRRMC Zamboanga del Sur Action Officer** continuously monitored the situation in the flooded areas
- **PRC Zamboanga Pagadian Chapter** proceeded to the area to provide assistance
- **MDRRMC Molave** convened the council and recommended to the Sangguniang Bayan the declaration of affected barangays under a State of Calamity
- **LGU Molave** provided initial assistance such as: rice, noodles, sardines and other basic services
- **OCD Pagadian City** closely monitored and coordinated with Molave-MDRRMC member agencies and the Civil Defense Deputized Coordinators

#### **Region X**

- **RDRRMC-X** conducted meeting among the Technical Management Group to discuss preparedness measures and possible adverse effect of Typhoon “Chedeng”
- **MMDRRMC Cabanglasan** dispatched PNP, BFP and MSWDO personnel to assist the victims and conducted damage and needs assessment
- **CDRRMC Malaybalay** extended relief goods consisting of rice, sardines, noodles, bottled water and used clothing worth PhP50,000.00
- **Malaybalay City Government** requested OCD X for assistance in terms of food items and used clothing and provided assistance to the affected family in Brgy. Batangan
- **CDRRMC Malaybalay, Bukidnom** assessed the extent of damages and provided assistance worth PhP50,800.00 to the affected families
- **MDRRMC Kapatagan** assisted by the Provincial Engineering Office of PDRRMC Lanao del Norte dispatched personnel and heavy equipment to haul/extract 7 truck loads of landslide debris

#### **Region XI**

- **Municipal Agriculture’s Office (MAO)** and **Municipal Engineer’s Office (MEO)** of Sto Tomas, Davao del Norte conducted damage and needs assessment (DANA)
- **MDRRMCs Sto. Tomas and Baraulio Dujali** recommend to the Sangguniang Bayan the declaration of said municipalities under a State of Calamity
- Respective local DRRMCs conducted clearing operations in the affected roads and also provided food assistance to the affected families

#### **NCR**

- **OCD NCR** continuously monitored the status of La Mesa Dam and Marikina River
- **Marikina City** tested their Early Warning System (EWS) to ensure effectiveness in warning their constituents

- **Outboard Advertising Association of the Philippines (OAAP)** rolled down all billboards/tarpaulins as precautionary measures
- **MMDRRMC** conducted an emergency meeting re: operational readiness of Metropolitan Manila area
- **Taguig City Social Welfare** provided relief assistance to the evacuees in Brgys. New Lower Bicutan and Bagumbayan
- **Taguig City Engineering Office** has pumped out the water as a short term solution of the flooded area in Laura Drive, Brgy Bagumbayan. For the long term solution, the drainage system in the area is being rehabilitated

#### **CAR**

- **Cordillera Regional DRRM Council** was convened to update and enhance network with member agencies
  - **PDRRMC Benguet** conducted an inventory of relief goods, activated rescue teams and pre-positioned equipment and deployed emergency responders with equipment to conduct rescue operations at the cave-in tunnel incident in Tuba
  - **PDRRMC Mt. Province** Governor Mayaan issued a directive to all Mayors re: Activation of Disaster Operations Centers and preparedness measures
  - **CDRRMC Baguio City** formulated OPLAN CHEDENG, alerted all members and volunteers and established constant communication with other line agencies
  - **PDRRMC Kalinga** issued an advisory re: Activation of MDRRMCs OpCens and airing of advisory thru local radio stations and continuously disseminated weather advisory to MDRRMCs concerned
  - **PHILEX Mines SAR Team**, together with Benguet PDRRMC, BBPICAG and Baguio City Emergency Medical Service (BCEMS) and CDRRMC Baguio have responded to the Tunnel incident in Tuba
  - **DENR-MGB-CAR** conducted investigation of the incident to determine if the incident was related to the effects of the enhanced weather disturbance
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**CHRONOLOGY OF TYPHOON “CHEDENG” (SONGDA)****31 May 2011, 5:00 PM****May 20, 2011**

- 2:00 PM: A Tropical Depression (TD) outside the Philippine Area of Responsibility (PAR) was located over the Caroline Islands at 1,500 km east of Mindanao (8.5°N, 141.0°E) with maximum sustained winds of 55 kph near the center and was moving West Northwest at 5 kph

**May 21, 2011**

- 10:00 AM: The TD was located at 1,230 km east of Mindanao (8.6°N, 138.6°E). At 2:00 PM at 1,220 km East of Mindanao (8.9°N, 138.5°E)

**May 22, 2011**

- 2:00 AM: The Tropical Storm (TS) was estimated at 1,160 km East of Northern Mindanao (9.4°N, 137.5°E)
- 10:00 AM: TS SONGDA was estimated at 1,070 km east of Northern Mindanao (9.7°N, 136.8°E) with maximum sustained winds of 75 kph and gustiness of up to 90 kph
- 4:00 PM: Located at 1,050 km east of Northern Mindanao with maximum sustained winds of 85 kph and gustiness of up to 100 kph

**May 23, 2011**

- 4:00 AM: TS East of Northern Mindanao entered the Philippine Area of Responsibility (PAR) and was named “CHEDENG” (SONGDA) located at 880 km east of Guiuan, Eastern Samar (10.5°N, 134.7°E) with maximum sustained winds of 95 kph
- 10:00 AM: Accelerated slightly as it moved in a west northwest direction located at 795 kph east of Guiuan, Eastern Samar (11.2°N, 133.8°E) and maximum sustained winds of 95 kph
- 10:00 PM: Maintained its strength as it moved west northwestward located at 640 kms east of Borongan, Eastern Samar (11.7°N, 131.9°E) with maximum sustained winds of 95 kph and gustiness of up to 120 kph

**May 24, 2011**

- 4:00 AM: Intensified as it moved in a westward direction located at 540 km east of Borongan, Eastern Samar (11.9°N, 130.8°E) with maximum sustained winds of 105 kph and gustiness of 135 kph
- 10:00 AM: Slowed down as it moved in a west northwest direction located at 490 km east of Borongan, Eastern Samar (12.1°N, 130.5°E) with maximum sustained winds of 105 kph and gustiness of 135 kph
- 4:00 PM: Slightly intensified as it moved in a west northwest direction located at 450 km east northeast of Borongan, Eastern Samar or at 510 km east of Catarman, Northern Samar (12.5°N, 129.8°E) with maximum sustained winds of 115 kph and gustiness of 145 kph
- 10:00 PM: Slightly accelerated as it moved west northwestward located at 420 km east of Catarman, Northern Samar (12.5°N, 128.9°E) with maximum sustained winds of 115 kph and gustiness of 145 kph

**25 May 2011**

- 4:00 AM: TS “Chedeng” slowed down and maintained its strength located at 365 kph east of Catarman, Northern Samar (12.2°N, 128.3°E) with maximum sustained winds of 115 kph and gustiness of 145 kph

- 10:00 AM: TS “Chedeng” intensified into a typhoon as it maintained almost stationary located 350 km East of Catarman, Northern Samar (12.2°N, 128.2°E) with maximum center winds of 130 kph and gustiness of 160 kph
- 4:00 PM: Accelerated as it maintained its strength located 310 km east of Catarman, Northern Samar (12.8°N, 127.7°E) with maximum sustained winds of 150 kph and gustiness of 186 kph
- 10:00 PM: Intensified further located 310 km east northeast of Catarman, Northern Samar (13.2°N, 127.6°E) with maximum sustained winds of 150 kph and gustiness of 185 kph

#### **May 26, 2011**

- 4:00 AM: Typhoon “Chedeng” gained more strength as it moved northwestward located at 270 km east northeast of Virac, Catanduanes (13.2°N, 127.6°E) with maximum sustained winds of 160 kph and gustiness of 195 kph
- 10:00 AM: Accelerated and gained more strength as it approached the Eastern Seaboard of Northern Luzon located at 230 km east northeast of Virac, Catanduanes or 400 km southeast of Casiguran, Aurora (14.9°N, 126.2°E) with maximum sustained winds of 170 kph and gustiness of 205 kph
- 4:00 PM: Slightly intensified as it moved northwestward located at 260 km north northeast of Virac, Catanduanes or east southeast of Casiguran, Aurora (15.8°N, 125.4°E) with maximum sustained winds of 175 kph and gustiness of 210 kph
- 10:00 PM: Continuously moved northwestward as it further intensified located at 250 km east of Casiguran, Aurora (16.4°N, 124.9°E) with maximum sustained winds of 185 kph and gustiness of 220 kph

#### **May 27, 2011**

- 4:00 AM: Gained more strength as it moved north northwestward located at 250 km east of Tuguegarao City (17.2°N, 124.3°E) with maximum sustained winds of 195 kph and gustiness of 230 kph
- 10:00 AM: Maintained its strength as it move closer to Batanes area located at 210 km east of Aparri, Cagayan (18.4°N, 123.8°E) with maximum sustained winds of 195 kph and gustiness of 230 kph
- 4:00 PM: Maintained strength as it continued to threaten Batanes area located at 160 km southeast of Basco, Batanes (19.5°N, 123.3°E) with maximum sustained winds of 195 kph and gustiness of 230 kph
- 10:00 PM: Weakened as it started to move away from the country located 100 km northeast of Basco, Batanes (20.6°N, 123.0°E) with maximum sustained winds of 185 kph and gustiness of 220 kph

#### **May 28, 2011**

- 4:00 AM: Continued to weaken as it moved in a north northeast direction located at 200 km east northeast of Basco, Batanes (21.9°N, 123.3°E) with maximum sustained winds of 165 kph and gustiness of 200 kph
- 10:00 AM: Accelerated further as it moved northeastward away from the country (360 km northeast of Basco, Batanes (23.5°N, 124.0°E) with maximum sustained winds of 140 kph and gustiness of 170 kph
- 4:00 PM: Accelerated rapidly as it moved away from the PAR located at 600 km northeast of Basco, Batanes (25.6°N, 125.4°E) with maximum sustained winds of 140 kph and gustiness of 170 kph

#### **May 29, 2011**

- **As Chedeng exited out of the country, the low pressure area (LPA) was spotted at 390 km west of Iba, Zambales (15.0°N, 116.0°E) at 02:00 PM of 29 May, 2011**

**Effects of Southwest Monsoon Enhanced by Typhoon Chedeng Emergency Incidents**  
As of 31 May 2011 5:00PM

Date	Reg	Affected Areas		
		Provinces	Municipalities/Cities	Barangays
<b>Flashfloods /Floodings - 12 incidents</b>				
May 23	IX	Zamboanga del Sur	Molave (1)	Sudlon, Culo, Madasigon, Mabuhay, Maloloy-on and Poblacion
May 25	X	Bukidnon	Cabanglasan (1)	Brgys. Cabuluhan and Capinonan (2 sitios)
			Malaybalay City (2)	1) Sitio Panamukan, Brgy. San Jose & Sitio Paniwaig, Brgy. Linabo 2) Barangay Batangan
May 22	XI	Davao del Norte	Sto Tomas (1)	Brgys. Kinamayan, San Miguel, San Vicente, Balagunan, Bobongon, Casig-ang, Esperanza, Kimamon, La Libertad, Lunga-og, Magwawa, New Visayas, New Katipunan, Pantaron, Salvacion, San Jose, Talomo, Tibal-og and Tulali-an
May 27			Carmen (1)	Brgys Anibongan, Mabaus, Taba, Salvacion, Tuganay, Mangalcal, Asuncion, San Isidro and Alejal
May 25				Braulio Dujale (1)
May 23	XI	COMVAL	Maragusan (1)	Brgy Tupas
May 26	NCR	Metro Manila	Taguig City (1)	Lower Bicutan and Bagong Bayan
May 23	ARMM	Lanao del Sur	Ditsaan Ramain (1)	Brgy. Delausan,
May 24			Bubong and Buadipuso-Buntong(1)	2 brgys
		Maguindanao	Sultan Kudarat (1)	Brgys Bulalo, Salimbao, Limbo, Calsada, Senditan and Mutaog
<b>Landslides - 4 incidents</b>				
May 26	V	Catanduanes	San Andres	Barangays Tibang and Barihay
May 24	XI	Davao del Norte	San isidro	RDR Drive Purok 11, Brgy. Datu Balong
May 23	XI	COMVAL	Maragusan	
May 27	CAR	Benguet	Kibungan	Sitios Nangalsapan and Buwet, in Brgy. Sagpat
<b>Cave-in Tunnel – 1 incident</b>				
May 27	CAR	Benguet	Tuba	Near Manganese Elementary School in Sitio Liliw
<b>Maritime Incident (involving MV Victorita that run aground)</b>				
May 28	II	Batanes		
<b>Total</b>	<b>6 Regions</b>	<b>10 Provinces</b>	<b>14 Mun /2 City</b>	<b>61 Barangays</b>

**Effects of Typhoon "CHEDENG" (SONGDA)  
AFFECTED POPULATION  
As of 31 May 2011, 5:00 PM**

Region/Province/ Mun/City	AFFECTED			No. of Evac Centers	Inside Evacuation Centers		Outside Evacuation Centers		TOTAL SERVED - CURRENT (Inside + Outside)	
	Brgys	Families	Persons		Families	Persons	Families	Persons	Families	Persons
<b>GRAND TOTAL</b>	<b>518</b>	<b>91,767</b>	<b>446,907</b>	<b>2</b>	<b>22</b>	<b>90</b>	<b>-</b>	<b>-</b>	<b>22</b>	<b>90</b>
<b>NCR</b>	<b>2</b>	<b>545</b>	<b>2,725</b>	<b>2</b>	<b>22</b>	<b>90</b>	<b>-</b>	<b>-</b>	<b>22</b>	<b>90</b>
TAGUIG CITY	2	545	2,725	2	22	90	-	-	22	90
<b>REGION II (CAGAYAN VALLE</b>	<b>3</b>	<b>31</b>	<b>126</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
ISABELA	3	31	126	0	-	-	-	-	-	-
MACONACON	3	31	126							
<b>REGION V (BICOL REGION)</b>	<b>449</b>	<b>79,974</b>	<b>387,147</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>ALBAY</b>	<b>262</b>	<b>48,872</b>	<b>223,110</b>							
BACACAY	12	888	3,643							
CAMALIG	23	2,908	14,718							
DARAGA	15	4,877	19,742							
GUINOBATAN	2	109	436							
JOVELLAR	11	1,100	5,726							
LEGAZPI CITY	35	4,282	20,390							
LIBON	14	3,415	17,758							
LIGAO CITY	6	338	1,586							
MALLIPOT	17	1,963	8,492							
MALINAO	29	4,865	14,286							
MANITO	11	3,530	13,244							
OAS	30	6,283	32,672							
PIO DURAN	10	1,142	6,870							
POLANGUI	1	4,721	24,549							
RAPU-RAPU	6	3,619	17,897							
SANTO DOMINGO (LIBOG)	11	2,341	11,186							
TABACO CITY	28	2,460	9,753							
TIWI	1	31	162							
<b>CAMARINES NORTE</b>	<b>13</b>	<b>542</b>	<b>2,710</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
MERCEDES	1	2	10							
PARACALE	2	15	75							
VINZONS	10	525	2,625	0	-	-	-	-	-	-
<b>CAMARINES SUR</b>	<b>147</b>	<b>27,914</b>	<b>146,697</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
BALATAN	11	997	4,984							
BATO	8	1,383	692	0	-	-	-	-	-	-
BOMBON	5	237	118							
BUHI	1	34	160	0	-	-	-	-	-	-
BULA	1	27	128	0	-	-	-	-	-	-
CABUSAO	1	86	517	0	-	-	-	-	-	-
GARCHITORENA	20	6,056	30,279							
GOA	8	3,500	18,025							
LAGONROY	38	5,859	36,953							
MINALABAC	2	167	835	0	-	-	-	-	-	-
OCAMPO	1	121	728	0	-	-	-	-	-	-
PASACAO	4	966	4,348	0	-	-	-	-	-	-
PILI	3	236	1,180							
SAGNAY	2	481	2,886							
SAN JOSE	8	1,326	7,958							
SIRUMA	13	1,726	8,631	0	-	-	-	-	-	-
TIGAON	1	69	416							
TINAMBAC	20	4,643	27,859	0	-	-	-	-	-	-
<b>CATANDUANES</b>	<b>14</b>	<b>2,374</b>	<b>13,349</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
BATO	3	357	1,993	0	-	-	-	-	-	-
GIGMOTO	9	1,319	7,569							
VIRAC	2	698	3,787	0	-	-	-	-	-	-
<b>SORSOGON</b>	<b>13</b>	<b>272</b>	<b>1,281</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
JUBAN	1	22	106	0	-	-	-	-	-	-
MATNOG	10	200	1,000							
SORSOGON	2	50	175	0	-	-	-	-	-	-
<b>REGION IX (ZAMBOANGA PENINSULA)</b>	<b>6</b>	<b>1,491</b>	<b>8,258</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>ZAMBOANGA DEL SUR</b>	<b>6</b>	<b>1,491</b>	<b>8,258</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
IMOLAVE	6	1,491	8,258							
<b>REGION X (NORTHERN MINDANAO)</b>	<b>6</b>	<b>115</b>	<b>596</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>BUKIDNON</b>	<b>6</b>	<b>115</b>	<b>596</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
CABANGLASAN	2	55	282							
MALAYBALAY CITY	3	59	309							
VALENCIA	1	1	5							
<b>REGION XI (DAVAO REGION)</b>	<b>38</b>	<b>9,611</b>	<b>48,055</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>COMPOSTELA VALLEY</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

Region/Province/ Mun/City	AFFECTED			No. of Evac Centers	Inside Evacuation Centers		Outside Evacuation Centers		TOTAL SERVED - CURRENT (Inside + Outside)	
	Brgys	Families	Persons		Families	Persons	Families	Persons	Families	Persons
MARAGUSAN (SAN MARIANO)	2									
<b>DAVAO DEL NORTE</b>	<b>36</b>	<b>9,611</b>	<b>48,055</b>	<b>0</b>	-	-	-	-	-	-
BRAULIO E. DUJALI	5	2,883	14,415							
CARMEN	10	3,190	15,950							
SAN ISIDRO	2	8	40						-	-
SANTO TOMAS	19	3,530	17,650						-	-
<b>ARMM</b>	<b>14</b>	-	-	<b>0</b>	-	-	-	-	-	-
<b>LANAO DEL SUR</b>	<b>8</b>	-	-	<b>0</b>	-	-	-	-	-	-
BUADIPOSO-BUNTONG	1								-	-
BUBONG	1								-	-
DITSAAN-RAMAIN	6								-	-
<b>MAGUINDANAO</b>	<b>6</b>	-	-	<b>0</b>	-	-	-	-	-	-
ISULTAN KUDARAT (NULING)	6								-	-

AFFECTED AREAS	
REGIONS	7
PROVINCES	12
CITIES	7
MUNICIPALITIES	53
BARANGAYS	518