



NDRRMC UPDATE

Final Report re Magnitude 5.5 Earthquake in Carrascal, Surigao Del Sur (13-22 July 2019)

Releasing Officer:

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Sources: DOST- PHIVOLCS, DSWD, and OCDRO CARAGA

I. SITUATION OVERVIEW

On **13 July 2019, 4:42 AM**, an earthquake with magnitude of **5.5** and depth of **004 km** hit **Carrascal, Surigao del Sur**, with details as follows:

Reported Intensities

- **Intensity VI** - Carrascal, Cantilan, Carmen, Lanuza, and Madrid, Surigao Del Sur
- **Intensity V** - Bayabas, and Cortes, Surigao Del Sur; Butuan City
- **Intensity IV** - Surigao City; Tandag City; Gingoog City; Claver, Surigao Del Norte; Magsaysay, Misamis Oriental; and Talacogon, Agusan Del Sur
- **Intensity III** - Cagwait, Surigao Del Sur; Socorro, Surigao Del Norte; Balingasag, Balingoan, Jasaan, Salay, and Villanueva, Misamis Oriental; Pintuyan, San Francisco, and San Ricardo, Southern Leyte; and Cagayan De Oro City
- **Intensity II** - Mambajao, Camiguin

Instrumental Intensities

- **Intensity IV** - Gingoog City
- **Intensity II** - Cebu City; Borongan City
- **Intensity I** - Bislig City; Cagayan de Oro City; and Palo, Leyte



A. Affected Population

A total of **2,215 families / 10,473 persons** were affected in **41 Barangays** in Surigao del Sur.

REGION / PROVINCE / MUNICIPALITY	NUMBER OF AFFECTED		
	Barangays	Families	Persons
GRAND TOTAL	41	2,215	10,473
Surigao del Sur	41	2,215	10,473
<i>Cantilan</i>	14	1,184	5,318
<i>Carmen</i>	8	400	2,000
<i>Carrascal</i>	4	147	735
<i>Lanuza</i>	1	8	40
<i>Madrid</i>	14	476	2,380

Source: DSWD DROMIC Terminal Report issued on 03 September 2019

B. Casualties (TAB A)

A total of **46 injured persons** were reported in the Province of Surigao del Sur.

Health Facility	Managed as Out-Patient	Admitted	Total
GRAND TOTAL	38	8	46
1. Adela Serra Ty Memorial Medical Center (DOH- Retained Hospital)	0	3	3
2. Madrid District Hospital (MDS)	35	4	39
3. Carrascal Primary Health Care Facility	2	0	2
4. Isidro M. Olan Sr. Memorial Clinic and Hospital Inc.	0	1	1
5. Caraga Regional Hospital	1	0	1

Source: DOH-HEMB

C. Status of Lifelines

Roads and Bridges

Surigao-Davao coastal road K1229 + 950, Sitio Nocot, Brgy. Saca, Carrascal, Surigao del Sur was initially reported passable only to light vehicles due to the fallen/leaning electrical posts and hanging live wires. As of 15 July 2019, aforementioned road was passable to all types of vehicles.

D. Damages

COST OF DAMAGES (TAB B)

An estimated of **₱47,721,536.50 worth of damages to infrastructure** was incurred in the Province of Surigao del Sur:

Note: Includes damages incurred in government, private, roads/bridges, school and health facilities, houses, and places of worship.

Damaged Houses

A total of **2,215 houses** were reported damaged (**53–totally / 2,162–partially**) due to the earthquake in Surigao del Sur (CARAGA).

REGION / PROVINCE / MUNICIPALITY	NO. OF DAMAGED HOUSES		
	TOTALLY	PARTIALLY	TOTAL
GRAND TOTAL	53	2,162	2,215
CARAGA	53	2,162	2,215

REGION / PROVINCE / MUNICIPALITY	NO. OF DAMAGED HOUSES		
	TOTALLY	PARTIALLY	TOTAL
Surigao del Sur	53	2,162	2,215
<i>Cantilan</i>	40	1,144	1,184
<i>Carmen</i>	4	396	400
<i>Carrascal</i>	1	146	147
<i>Lanuza</i>	1	7	8
<i>Madrid</i>	7	469	476

Source: DSWD DROMIC Terminal Report issued on 03 September 2019

Other Damaged Infrastructures

PARTICULARS	QUANTITY
TOTAL	77
Roads / Bridges	8
Government Facilities	29
School Facilities	20
Health Facilities	1
Private Facilities	9
Place of Worship	10

Source: OCDRO CARAGA

E. Declaration of State of Calamity

The following municipalities were declared under State of Calamity:

LGUs	RESOLUTION NO.	DATE
Cantilan, Surigao del Sur	Sangguniang Bayan Resolution No. 24-2019	15 July 2019
Carmen, Surigao del Sur	Sangguniang Bayan Resolution No. 20, s. 2019	16 July 2019

II. ACTIONS TAKEN

A. NATIONAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL

1. National Disaster Risk Reduction and Management Operations Center (NDRRMOC)

- a. Disseminated Earthquake Information Nos. 1, 2, and 3 to OCD Regional Offices (OCDROs) concerned and other stakeholders through facsimile, SMS, website, and twitter account for further dissemination to its respective local DRRMCs. Moreover, advised ROs to undertake precautionary measures and to monitor the situation for any possible effects of said earthquake particularly in areas with reported intensities.
- b. Prepared the Emergency Alert and Warning Message (EAWM) for dissemination by Telecommunications Companies (TELCOs) to the affected areas.

2. DSWD

The Disaster Response Operations Monitoring and Information Center (DROMIC) of the DSWD-DRMB coordinated with DSWD-FO CARAGA for significant reports on the status of affected families, assistance, and relief efforts.

3. PHIVOLCS

- a. Disseminated Earthquake Information.
- b. Monitored significant earthquake activity/development.

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

- a. Disseminated NDRRMC Earthquake Advisories in AOR and advised to closely monitoring situation within the AOR.
- b. Coordinated with PHIVOLCS and LDRRMOs on the situation updates.

1. RDRRMC CARAGA

- a. RDRRMC-OCD Operations Center raised its alert status to BLUE.
- b. OCD CARAGA disseminated the Earthquake Bulletins to all LDRRMCs through SMS, Messenger, Social Media, and Email.
- c. Advised Provincial, City, and Municipal Health Offices regarding SOP on Health Emergency and Disaster Response.
- d. Coordinated with LDRRMCs on actions to be undertaken within its respective Areas of Responsibility (AORs).
- e. Coordinated with RDRRMC member agencies for possible deployment of resources.
- f. Prepared 300 pieces of Tarp to be used as emergency shelter for distribution to affected families as requested by PDRRMO Surigao del Sur.

2. DSWD CARAGA

- a. Conducted an assessment and validation to the affected areas in Surigao del Sur for possible intervention of the injured individuals in the form of medical assistance and food subsidy.
- b. Facilitated the distribution of 448 Family Food Packs (FFPs) to the affected families in Carmen, Surigao del Sur amounting to ₱163,296.00.
- c. Coordinated and monitored the LSWDOs and LDRRMOs regarding the situation.
- d. Provided a total of **₱2,503,203.00** worth of assistance to the affected families. Of which, **₱1,551,203.00** was provided by DSWD and **₱952,000.00** was provided by the LGU.
- e. Distributed non-food items specifically, 4 Mosquito Nets, 4 pieces of Malong, 4 Blankets, 4 Plastic Mats, 4 Kitchen Kits and 4 Family Kits to the 4 families with totally damaged houses in Carmen, Surigao del Sur.

3. DOH CARAGA

- a. Activated the DOH-CHD CARAGA OpCen.
- b. Conducted rapid assessment, further verification, and monitoring on the extent of impact.
- c. Coordinated with PDRRMO-SDS and activated the Provincial DOH Office personnel and HRH to conduct RHA.
- d. Deployed 5-man RHA/Hospital Medical team from Adela Sera Ty Memorial and Medical Center to the Municipality of Madrid.
- e. Placed DOH-CHD CARAGA RHA and logistics team on standby and ready for deployment.
- f. Coordinated with all hospitals in CARAGA Region for any referral of patients.

- g. Conducted ocular inspection in Madrid District Hospital and RHUs in the affected area.
- h. Coordinated with Carmen Municipal Health Office for monitoring and active surveillance of possible diarrhea cases in the affected barangays.
- i. Provided assistance to Madrid District Hospital and Carmen RHU.'
- j. Provided / delivered 20 pcs. of jerry cans to Brgy. Hinapoyan and Esperanza, Carmen, Surigao del Sur.

Assistance Provided

Recipient	Items	Quantity	Amount
Madrid District Hospital	Medicines	-	23,658.00
	Medical Supplies	-	17,244.84
	Tents	2	25,800.00
	Jerry Cans	20	3,900.00
	Tetanus Toxoid (20amps)	-	2,044.00
	Anti-Tetanus Serum – 1,500 iu 12amps	-	877.80
Carmen RHU	Jerry Cans	20	3,900.00
GRAND TOTAL			77,424.64

Source: OCD Caraga Final Report re Magnitude 5.5 EQ

4. DPWH CARAGA

- a. Activated the Operations Center to monitor, receive, and submit updates to RDRMC EOC on status of national roads and bridges within CARAGA region.
- b. Completed clearing operations on affected roadway with the assistance of concerned electric cooperative and maintenance personnel in the area.

5. PDRRMO Surigao del Sur

- a. PDRRMC through PDRRMO deployed RDANA teams.
- b. Placed the Operations Center on 24/7 alert status.
- c. Placed transport vehicles on standby ready for deployment.
- d. Mobilized Response teams.
- e. Extended immediate financial assistance amounting to ₱2,000.00 per family in the Municipalities of Carmen, Carrascal, and Madrid.
- f. LGU Carrascal provided a total of ₱64,900.00 worth of Food and Non-food assistance to the affected families.

6. Private Sector

Association of Structural Engineers of the Philippines (ASEP)

Conducted infrastructure audit in areas affected by the incident.

C. Cost of Assistance

A total of **₱3,978,083.00** worth of assistance from DSWD and LGUs were provided for the Province of Surigao del Sur.

REGION / PROVINCE / MUNICIPALITY	COST OF ASSISTANCE (₱)		
	DSWD	LGU	GRAND TOTAL
GRAND TOTAL	2,003,183.00	1,974,900.00	3,978,083.00
CARAGA	2,003,183.00	1,974,900.00	3,978,083.00
Surigao del Sur	2,003,183.00	1,974,900.00	3,978,083.00

<i>Surigao Del Sur</i>	-	<i>1,910,000.00</i>	<i>1,910,000.00</i>
<i>Cantilan</i>	<i>1,008,676.20</i>		<i>1,008,676.20</i>
<i>Carmen</i>	<i>286,115.20</i>	-	<i>286,115.20</i>
<i>Carrascal</i>	<i>91,125.00</i>	<i>64,900.00</i>	<i>156,025.00</i>
<i>Lanuzá</i>	<i>5,189.80</i>	-	<i>5,189.80</i>
<i>Madrid</i>	<i>612,076.80</i>		<i>612,076.80</i>

Source: DSWD DROMIC Terminal Report on the Earthquake in Carrascal, Surigao del Sur, 03 September 2019

**Final Report re Magnitude 5.5 Earthquake in Carrascal, Surigao del Sur
CASUALTIES
13 July 2019**

AREA		LAST NAME	FIRST NAME	MIDDLE NAME	AGE	GENDER	ADDRESS	REMARKS
INJURED	46							
REGION XIII	46							
Surigao del Sur	46							
Lanuza	1	Adobo	Jannilyn		29	F	Bunga, Lanuza	Wounds, left body caused by broken glass
	1	Mira	Antonio		62	M	Bocawe, Lanuza	LW10-cm supra-orbital area
Carmen	1	Calolop	Razel		9	M	Esperanza, Carmen	LW 10cm (R) foot
	1	Birador	Melanie		15	F	Cancavan, Carmen	Abrasion (R) nasal area
	1	Lopio	Ysabell		4	F	Esperanza, Carmen	KW 2cm Parieto-temporal area (R)
	1	Cocola	Maylen		38	F	Sta. Cruz, Carmen	Soft tissue swelling and Soft tissue contusion secondary to falling debris
Madrid	1	Justitodo	Isidra		59	F	San Juan, Madrid	Blunt chest trauma secondary to crushing injury from falling debris
	1	Orgiles	Felicitas		89	F	Quirino, Madrid	Cerebral Concussion secondary to falling debris
	1	Falcon	Virgilia		58	F	Panayogon, Madrid	Lacerated wound (LW) Temporal Area (R) 2cm
	1	Lubrio	Jovie		40	M	Patong-patong Madrid	LW parietal area 3cm
	1	Lubrio	Mary Ann		8	F	Patong-patong Madrid	LW Frontal Area 2cm LW Femur (L) 8 cm
	1	Tumilap	Rolebert		30	M	Magsaysay, Madrid	LW 1 cm Palmar Area
	1	Lumayno	John Elvin		6	M	Patong-patong Madrid	LW 2cm Frontal Area (R)
	1	Orgiles	Jovelyn		19	F	Quirino, Madrid	Abrasion Forearm (R)
	1	Derigay	Remegio		59	M	Quirino, Madrid	LW 2cm (L) Palm
	1	Mollaneda	Ronilo		74	M	Linibunan, Madrid	LW (L) lateral leg 12cm
	1	Iral	Bernard		25	M	M Union, Madrid	Multiple abrasions at knee (L) and (R) leg
	1	Arpilleda	Ma. Venus		44	F	Quirino, Madrid	Abrasion wound (L) leg
	1	Rufin	Matt Geirade		21	M	San Juan, Madrid	Punctured wound (L) foot
	1	Corones	Kristel Casandra		18	F	Magsaysay, Madrid	Lacerated wound (R) knee
	1	Patis	Rodrigo		53	M	Mangga, Madrid	HPN Emergency
	1	Doloriel	Renato		38	M	Bayogo, Madrid	Contusion Hematoma back secondary to falling debris
	1	Wilfred	Pane		37	M	Bagsak, Madrid	Injured; incurred injuries still for verification
	1	Torial	Rodrigo		53	M	Cabas-an, Cantilan	LW 3cm frontal area
	1	Duena	Zyra		12	M	Buntalid, Cantilan	LW 2cm Frontal Area (R)
	1	Rubi	Rosefe		29	F	Buntalid, Cantilan	Multiple abrasion frontal area
	1	Ortigas	Marianne		44	F	Linintian, Cantilan	LW 3rd digit (R) hand LW forearm (R)
	1	Cubelo	Erwin		22	M	Linintian, Cantilan	LW 2cm, Chin
	1	Azarcon	Rutchelyn		37	F	Pag-antayan, Cantilan	LW 3cm frontal area (R)
	1	Raganas	Lourdes		66	F	Palasao, Cantilan	LW 3cm frontal area (R)
	1	Arpilleda	Anaclita		80	F	Tapi, Cantilan	Cerebral contusion secondary to falling debris
	1	Jamora	Kyle Abegail		6	F	Magosilom, Cantilan	Fracture of femur left, proximal 3rd close, complete
	1	Ambray	John Paul		15	M	Buntalid, Cantilan	Abrasion (R) forearm LW 1cm
	1	Buenafior	Jay		5 mos	M	Buntalid, Cantilan	Cerebral Concussion secondary to falling debris
	1	Aspillaga	Leonora		77	F	Parang, Cantilan	0.5 cm LW @ Frontal aspect of head secondary to falling debris
	1	Ellazo	Janette		38	F	Tigabong, Cantilan	Contusion Hematoma back secondary to falling debris
	1	Asilom	Elena		35	F	Parang, Cantilan	Abrasion and Swelling (L) foot secondary to falling object secondary to earthquake
	1	Ruaza	Celenia		55	F	Parang, Cantilan	Abrasion Frontal Aspect of the Head, (R) arm secondary to falling object (hollow block)
	1	Ruayana	Merlyn		55	F	Parang, Cantilan	Swelling (R) ankle and contusion (R) leg secondary to falling object (hollow block), HPN Urgency
	1	Palco	Evelyn		2	F	TBD	Punctured wound (R) temporal area secondary to falling debris
	1	Costuya	Elyn		63	F	Panikian, Carrascal	Physical injuries secondary to falling object
	1	Costuya	Jino		5	F	Panikian, Carrascal	Physical injuries secondary to falling object
	1	Alimboyong	Rudy		67	M	Linintian, Cantilan	Injured; incurred injuries still for verification
	1	Quintas	Tita	A	57	F	Linintian, Cantilan	Injured; incurred injuries still for verification
	1	Dumay	Teofilo	Lustira	66	M	P4-Union, Madrid	Punctured wound (R) ankle and sprain (R) elbow secondary to fall
	1	Dumay	Lina	Lamela	59	F	P4-Union, Madrid	avulsed wound lower lip and lower gingiva secondary to falling debris

Source: DOH-HEMB as of 14 July 2019

Final Report re Magnitude 5.5 Earthquake in Carrascal, Surigao del Sur
DAMAGE TO INFRASTRUCTURE
 13 July 2019

REGION / PROVINCE	NAME OF INFRASTRUCUTRE	DESCRIPTION OF DAMAGE	AMOUNT (P)
GRAND TOTAL			47,721,536.50
ROADS / BRIDGES	8		1,130,000.00
CARAGA			1,130,000.00
Surigao del Sur			1,130,000.00
	Magsilom Casa Bridge	Cracks on bridge approach but still passable	-
	Bugsukan Tapi Bridge	2 span damaged	400,000.00
	Hanadjay Bridge	7 span and 2 post damage	500,000.00
	Calagdaan Purok 3 Bridge	-	10,000.00
	Antao National Highway	Cracked shoulder (20 Meters estimate)	-
	Antao Bridge	-	20,000.00
	Municipal Road along Brgy. Linibunan	with cracks	200,000.00
	Sitio Baybay Road at Brgy. Bunga	cracked	-
GOVERNMENT FACILITIES	29		4,726,344.72
CARAGA			4,726,344.72
Surigao del Sur			4,726,344.72
	Bugsukan Brgy. Social Hall		105,000.00
	Bugsukan Foot Bridge		200,000.00
	Tapi Hanadjay Social Hall	slightly damaged	5,000.00
	Tapi Purok 2 Waiting Shed	slightly damaged	5,000.00
	Buntalid Social Hall		10,000.00
	Buntalid Farmers Center		3,150.00
	Calagdaan Purok 4 Foot Bridge		10,000.00
	Calagdaan Rice Processing		20,000.00
	Brgy. Cabas-an Covered Court		1,277,487.20
	Brgy. Cabas-an Hall	cracked Walls	45,707.52
	Electric Post		-
	Panikian Gymnasium	wall cracked	50,000.00
	Sito Banban, Panikian Brgy. Hall	wall and flooring cracked	200,000.00
	Panikian CVO Outpost	wall cracked	100,000.00
	Tag-anito Brgy. Hall	wall and beams cracked	300,000.00
	Public Market	slightly damaged (1 stall wall collapsed, 3 columns with cracks)	-
	Municipal Hall	slightly damaged (wall collapsed and cracked)	-
	Brgy. Cancavan	damaged street lights	20,000.00
	Madrid Fire Station	1 Fire Truck, 2 private vehicles, and 3 Triskads damaged due to the collapsed roof	135,000.00
	Old Public Market	collapsed	-
	Madrid Public Plaza	floor tiles cracked	100,000.00
	Madrid Social Hall	floor tiles and wall cracked	200,000.00
	Brgy. Patong-Patong Multi-Purpose Hall	wall collapsed	500,000.00
	Brgy. Quirino Multi-Purpose Hall	roofing collapsed and wall separated from the post	1,000,000.00
	Brgy. Linubanan Multi-Purpose Hall	roofing partially damaged and fence collapsed	200,000.00
	Brgy. Patong-Patong Rice Processing Complex	roofing dislocated, machine misaligned and cracked wall	200,000.00
	Brgy. Agsam Gym	cracked walls	20,000.00
	Sitio Capdian Social Hall	ceiling collapsed concrete bench with crack	-
	Brgy. Agsam Evacuation Center	walls and ceiling damaged	20,000.00
SCHOOL FACILITIES	20		5,887,000.00
CARAGA			5,887,000.00
Surigao del Sur			5,887,000.00
	Bugsukan Elementary School	Feeding center and grade IV room for demolition	-
	Buntalid Day Care Center		2,000.00
	Buntalid Elementary School	Principal's Office, Canteen Building Damaged	400,000.00
	Calagdaan Mindanao Bible School	Damaged covered court	40,000.00
	Calagdaan Elementary School		5,000.00
	Magasang National High School	Damaged covered court	200,000.00
	Magasang New Building	Ceiling in a Senior High classroom totally damaged	100,000.00
	Pan-Antayan SDSSU Main Campus		-
	Parang Senior High School Building	Ceiling damaged / crack on walls and floors	50,000.00
	Palasao Integrated School	Ceiling and Roofing damaged	100,000.00
	Consuelo Elementary School	Wall Cracks on H.E. Building	50,000.00
	Cabasan Elementary School	Totally damaged	3,030,000.00
	Panikian Elementary School	Damaged concrete fence	100,000.00
	Carrascal National High School	wall cracked	250,000.00
	Brgy. Esperanza Integrated School	Damaged walls and ceiling	500,000.00
	Brgy. Puyat Antonio Borda Mem. Elem. School	damaged walls and ceiling	60,000.00
	Madrid National High School	Perimeter Fence Collapsed	500,000.00
	Madrid Central Elementary School	5 classroom floors cracked, oval damaged, 10 span school fence collapsed and covered court roofing partially damaged	350,000.00
	Brgy. Magsaysay Elementary School	Collapsed Fence	100,000.00
	Brgy. Union National High School	Cracked Walls	50,000.00
HEALTH FACILITIES	1		500,000.00
CARAGA			500,000.00
Surigao del Sur			500,000.00
	Madrid District Hospital	concrete signage and flag pole collapsed	500,000.00

REGION / PROVINCE	NAME OF INFRASTRUCUTRE	DESCRIPTION OF DAMAGE	AMOUNT (P)
PRIVATE FACILITIES	9		34,393,661.60
CARAGA			34,393,661.60
Surigao del Sur			34,393,661.60
	Sunrise Inn	with structural damage	-
<i>Cantilan</i>	Chanlac Restaurant	collapsed	-
	Houses		11,667,581.60
<i>Carrascal</i>	Houses	14 totally and 103 partially damaged	6,790,000.00
<i>Carmen</i>	Houses	4 totally and 308 partially damaged	15,586,080.00
	Brgy. Cancavan Water System and Social Hall	damaged	-
<i>Madrid</i>	Water pump machine		200,000.00
	Houses	2 totally and 1 partially damaged	150,000.00
<i>Lanuza</i>	Private Building at Brgy. Gamuton	collapsed wall	-
PLACES OF WORSHIP	10		1,084,530.18
			1,084,530.18
	Bugsukan Chapel	3 sides walling totally damaged	85,000.00
	Tapi Hanadjay Chapel	Slightly damaged	10,000.00
<i>Cantilan</i>	Buntalid Chapel		14,700.00
	Calagdaan Our Lady of Lourdes Chapel		5,000.00
	Cabas-an Catholic Church	Collapsed wall	119,830.18
<i>Carrascal</i>	Panikian Catholic Church	wall cracjed	50,000.00
<i>Carmen</i>	Catholic Parish Church	ceiling collapsed, roof partially damaged and	-
<i>Madrid</i>	St. Isidore Parish Church/SMS building	wall and marble tile cracked	300,000.00
	Brgy. Aqsam Catholic Church	suffered major damages	500,000.00
<i>Lanuza</i>	Sitio Capdian Chapel at Brgy. Bunga	wall collapsed, entrance door with cracks	-

Source: OCD CARAGA SitRep No. 11 5.5 EQ in CARAGA, 22 July 2019, 5:00PM