


NDRRMC UPDATE

Final Report re Preparedness Measures and Effects of Tropical Storm "KIKO" (04-06 September 2017)

Releasing Officer:


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Administrator, OCD

Sources: DOST-PAGASA, DSWD-DROMIC, DOH, RDRRMCs/OCDRos I, II, and CAR

I. SITUATION OVERVIEW

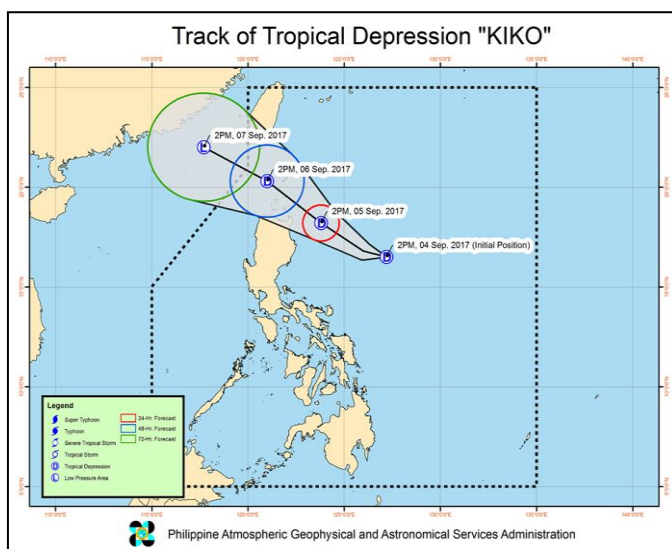
A. Chronology and Typhoon Track

04 September 2017

At 4:00 PM, the Low Pressure Area (LPA) East of Southern Luzon developed into a Tropical Depression (TD) and was named "KIKO".

At 10:00 PM, TD "KIKO" maintained its strength as it moves towards extreme Northern Luzon.

Tropical Cyclone Warning Signal (TCWS) No. 1 was raised over the Cagayan, Ilocos Norte, Apayao, Batanes, and Babuyan Group of Islands.



05 September 2017

At 4:00 AM, "KIKO" maintained its strength as it continued to move towards extreme Northern Luzon. It slightly accelerated and moved in a Northwest direction towards extreme Northern Luzon at 10:00 AM.

TCWS No. 1 was raised over Northern Cagayan including Babuyan Group of Islands and Batanes.

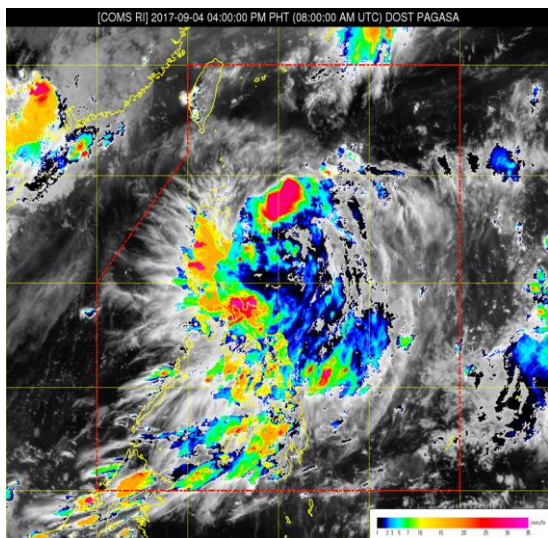
06 September 2017

At 4:00 AM, "KIKO" maintained its strength and traversed the Balintang Channel. TCWS No. 1 was raised over Batanes and Babuyan Group of Islands.

At 11:00 PM, Tropical Storm (TS) "KIKO" exited the Philippine Area of Responsibility (PAR).

All raised TCWS were lifted.

B. Typhoon Analysis



During the stay of TS “KIKO”, the estimated highest maximum sustained wind attained is 65 kph near the center and gustiness of up to 80 kph with a central pressure of 998 hPa. The estimated rain diameter of TS "KIKO" was about 250 km in the categories of moderate to occasionally heavy. 1 Weather Advisory, 10 International Warning for Shipping (IWS), and 9 Severe Weather Bulletin (SWB)-(Alert & Warning) were issued.

Tropical Warning Signal #1 was hoisted over Cagayan, Ilocos Norte, Batanes, and Babuyan Group of Islands.

Tropical Storm “KIKO” stayed in the PAR for three (3) days from 04 (5:00 PM) to 06 (11:00 PM) September 2017.

II. EFFECTS

1. Suspension of Classes and Activities

a. Classes were suspended in the following areas due to TS “KIKO”:

PROVINCE/CITY/MUNICIPALITY	LEVEL	DATE OF SUSPENSION	DATE RESUMED
Province of Cagayan	Preschool-Senior High School	05 September 2017	07 September 2017
Province of Ilocos Norte	Kinder to Elementary		06 September 2017
Laoag City	Kinder to Elementary		
Batac City	Kinder to Elementary		

b. Hiking/Trekking activities in Mt. Purgatory, Bokod, Benguet were suspended effective 04 September 2017 and resumed on 07 September 2017.

III. DISASTER PREPAREDNESS

A. National Disaster Risk Reduction and Management Council

1. NDRRM Operations Center (NDRRMOC)

a. Disseminated Weather Advisories, Severe Weather Bulletins, General Flood Advisories, Gale Warning, Thunderstorms, and 24-hour Public Weather Forecasts to RDRRMCs/OCDROs through SMS, facsimile, and official social media websites for further dissemination to their respective Local Disaster Risk Reduction and Management Councils (LDRRMCs).

2. Department of Social Welfare and Development (DSWD)

a. Placed the Disaster Response Operations Monitoring and Information Center (DROMIC) of DSWD-DReAMB on standby for monitoring reports related to Tropical Depression “KIKO”.

b. The DSWD Central Office (CO), concerned Field Offices (FOs), and National Resource Operations Center (NROC) had stockpiles and standby funds amounting to **₱1,403,005,334.02** (see Table 3) with breakdown as follows:

Stockpiles

A total of **385,570 Family Food Packs (FFPs)** amounting to **₱135,785,512.05** and available **Food and Non-food Items (FNIs)** amounting to **₱446,039,510.19**.

Standby Funds

A total of **₱821,180,311.78** standby funds in the CO and FOs. Of the said amount, **₱768,740,869.05** were the available Quick Response Fund in the CO.

FIELD OFFICE	STANDBY FUNDS	STOCKPILE					TOTAL STANDBY FUNDS AND STOCKPILE
		Family Food Packs		Food	Non-Food	Sub-Total (Food and FNIs)	
		Quantity	Total Cost				
TOTAL	821,180,311.78	385,570	135,785,512.05	141,905,298.80	304,134,211.39	446,039,510.19	1,403,005,334.02
CO*	768,740,869.05	-	-	-	-	-	768,740,869.05
NROC	-	8,665	2,962,910.10	39,426,521.83	47,964,744.40	87,391,266.23	90,354,176.33
NCR	3,021,659.00	10,084	3,967,563.62	2,956,963.57	671,300.00	3,628,263.57	10,617,486.19
CAR	3,249,542.66	26,106	10,418,382.48	307,236.00	10,166,650.16	10,473,886.16	24,141,811.30
I	2,316,400.00	30,596	11,520,757.75	1,682,022.50	5,473,375.67	7,155,398.17	20,992,555.92
II	3,000,000.00	15,464	5,412,400.00	1,297,968.40	5,864,020.02	7,161,988.42	15,574,388.42
III	3,000,000.90	23,842	8,061,457.04	863,671.05	7,906,857.72	8,770,528.77	19,831,986.71
CALABARZON	3,000,000.79	32,110	10,450,416.30	3,358,684.14	7,123,357.93	10,482,042.07	23,932,459.16
MIMAROPA	3,000,000.54	18,861	6,919,098.00	6,678,562.88	960,826.36	7,639,389.24	17,558,487.78
V	3,274,200.00	38,225	15,272,950.00	796,599.60	37,724,783.78	38,521,383.38	57,068,533.38
VI	3,000,000.00	7,103	2,642,173.00	31,661,981.00	2,348,737.45	34,010,718.45	39,652,891.45
NIR	3,000,000.00	25,160	6,841,224.94	618,283.80	6,079,705.79	6,697,989.59	16,539,214.53
VII	3,000,000.00	73,482	26,453,520.00	24,511,859.85	42,459,358.92	66,971,218.77	96,424,738.77
VIII	3,000,000.00	27,935	8,868,038.60	10,016,186.82	114,681,245.28	124,697,432.10	136,565,470.70
IX	3,633,566.34	7,114	2,561,040.00	4,207,797.50	2,037,602.10	6,245,399.60	12,440,005.94
X	3,944,072.50	5,200	1,846,292.00	2,465,431.00	995,406.00	3,460,837.00	9,251,201.50
XI	3,000,000.00	16,280	5,400,209.98	1,391,822.97	4,995,247.40	6,387,070.37	14,787,280.35
XII	3,000,000.00	5,131	1,847,160.00	8,939,983.53	3,821,721.67	12,761,705.20	17,608,865.20
CARAGA	3,000,000.00	14,212	4,339,918.24	723,722.36	2,859,270.74	3,582,993.10	10,922,911.34

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

- a. Disseminated weather forecasts, General Flood Advisories, and Severe Weather Bulletins re Tropical Depression "KIKO".

4. Department of Health (DOH)

- a. Activated Code White Alert and sent weather alert memorandum to all Regional Offices.
- b. Monitored the weather disturbance thru PAGASA website.

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

1. REGION I

Office of Civil Defense (OCD) I

- a. Conducted PDRA Meeting re TD "KIKO" on 05 September 2017.
- b. Disseminated Memorandum to RDRRMC Member-Agencies and PDRRMOs re conduct of PDRA Meeting and raising of Alert Status to Blue Alert for TD "KIKO".
- c. Disseminated weather bulletins/advisories to all concerned LDRRMCs, member agencies, tri-media, and several fishermen associations thru facsimile and SMS.
- d. Requested all PDRRMCs and RDRRMC Member-Agencies to be on standby for possible rescue, relief, and other response operations.

Department of the Interior and Local Government (DILG) I

- a. Alerted Local Government Operations Officers to be on standby.
- b. Disseminated Weather advisory/bulletin, hotdog tracks, and forecasts to all LGOOs.
- c. Advised Provincial Offices to ensure that LDRRMCs within their AORs were carrying out preparedness actions, as suggested in the Operation LISTO.

Department of Social Welfare and Development (DSWD) I

- a. Closely monitored TD “KIKO” while the Social Welfare Action Development Team is currently coordinating with the P/M/CSWDO on the status of their respective areas.
- b. Had available standby quick respond fund amounting to ₱2.9M.
- c. Prepositioned a total of 5,700 Family Food Packs to Ilocos Norte and Ilocos Sur.

Bureau of Fisheries and Agriculture (BFAR)

- a. Activated OpCen and monitored the AOR.
- b. Alerted coordinators to be on standby.

Bureau of Fire Protection (BFP) I

- a. Placed all personnel and equipment on standby for possible deployment.

Department of Education (DepEd) I

- a. Implemented Preparedness Measures per DepEd Order 83, series of 2011.
- b. Coordinated with DILG to ensure facilitation of class suspension as per DO 43, series of 2011.

DENR-MGB

- a. Conducted information campaign, vulnerability and risk assessments (particularly in the municipalities of Banguui and Pasuquin, Ilocos Norte), lectures, and Information, Education and Communication (IEC) Campaign.

Department of Health (DOH) I

- a. Prepositioned drugs and medicines.

PCG District North Western Luzon

- a. Activated CGDNWLZN Deployable Response Group (DRG) within AOR.
- b. Activated District Crisis Management Council.
- c. Conducted Information Drive including “Paalala sa Mangingisda”, MC No. 01-09 Guidelines on Movement of Vessels during Heavy Weather.

Philippine Information Authority (PIA) I

- a. Monitored effects of the weather disturbance from LGUs thru their information officers and partner agencies in all 4 provinces.
- b. Timely disseminated weather reports/alerts via social media, SMS Infoboard, and local radio station.

Philippine National Police Regional Office (PNP-PRO) I

- a. Directed lower units re activation of their respective DIMTG as the situation may require.
- b. Coordinated with LDRRMC and LGUs and conducted preventive measures with the residents in coastal areas.
- c. Reminded all responders to secure/evacuate their family to safe area before disaster strikes.
- d. Strengthened resilience of emergency telecommunications, and reminded MPOs to bring down antennas.
- e. Ensured the readiness of the SRR equipment and supplies to support

operational requirements.

PDRRMC La Union

- a. Placed on Blue Alert Status
- b. Conducted conference with the LDRRMOs.
- c. Placed all personnel and equipment on standby for possible deployment.
- d. Monitored the landslide and flood-prone municipalities.
- e. Prepositioned food and non-food items.

PDRRMC Ilocos Norte

- a. Informed all C/MDRRMCs to be on alert status and monitor weather bulletin from PAGASA re TD "KIKO". Advised them to place equipment, evacuation centers, food packs, medicines, personnel, and other resources on standby for possible deployment.
- b. Prohibited children from swimming and fishing in swollen rivers and creeks.
- c. Advised all residents to limit outside exposure and stay indoors during heavy downpour and thunderstorm with lightning.
- d. Advised farmers to secure their livestock in safe areas and for fishermen not to venture out to sea.
- e. Conducted PDRA Meeting
- f. Informed response agencies to be on alert for possible deployment.
- g. Alerted DPWH to ready equipment, DSWD to preposition relief goods to the 7 Resilient Headquarters and notified City/Municipal Social Welfare and Development Officers to ready evacuation centers, PHO to preposition medicines and advise health emergency management group to be on alert status.
- h. Advised Communications and Media Office (CMO), IT, PIA, KBP, and PNP to disseminate weather advisories.

PDRRMC Ilocos Sur

- a. Rescue vehicles and equipment were placed on standby.
- b. Disseminated weather advisories/bulletins to C/MDRRMOs and public through text blast and social media accounts.

PDRRMC Pangasinan

- a. Monitored water releases of the San Roque Dam and Agno River.
- b. Issued memorandum re pre-evacuation to landslide/flood-prone areas.
- c. Placed assets and rescue teams on standby for possible deployment.
- d. Activated PDRRMC WASAR Teams and WASAR Volunteers.
- e. Advised public to brace/strap houses to protect from strong winds.
- f. Monitored beachgoers by rendering emergency actions in cases of drowning incidents at the Lingayen beach area.
- g. Coordinated with DSWD I regarding preparation of evacuation centers.
- h. Stockpiled relief goods, medicines and other basic housing, and infra materials.

CDRRMC Alaminos City, Pangasinan

- a. Placed on Blue Alert Status effective 05 September 2017, 12:00 NN.
- b. Advised all Punong Barangay to activate BDRRMCs.
- c. Monitored weather updates and disseminated to CDRRMC member agencies and Punong Barangays thru SMS.

2. REGION II

OCD II

- a. Placed on Blue Alert Status effective 5:00 PM, 04 September 2017.
- b. Disseminated weather advisories and general flood advisories to R/P/CDRRMCs, LGUs, Local Radio Stations and line member agencies through SMS, facsimile, and uploaded the same to OCD-RDRRMC II social media accounts to ensure widest dissemination of the advisories.
- c. Coordinated to Cagayan Valley RDRRMC member agencies and P/C/MDRRMCs on the monitoring of weather situation in the AOR.
- d. Disseminated C/RDRRMC Memorandum to P/C/MDRRMCs of Cagayan and Batanes re: Raising of Alert Status.
- e. Established communication link with PDRRM Operations Center thru HF/VHF radio communications.

DOST II

- a. Monitored the Automatic Rain Gauges (ARG), Water Level Monitoring Stations (WLMS), and Automatic Weather Stations (AWS) to ensure that it sends data every 10-15 minutes.
- b. Disseminated the latest weather bulletins to LGUs and concerned institutions and posted the same to DOST II website and Facebook account.

DILG II

- a. Disseminated weather bulletins/advisories to LGUs.
- b. Coordinated with OCD and PAGASA re situation updates.

DSWD II

- a. Social Welfare and Development (SWAD) Teams in the provinces of Batanes, Cagayan, Isabela, Quirino, and Nueva Vizcaya were alerted and advised to closely monitor the effects of TD "KIKO" in their area of responsibility. Likewise, coordinated with their respective Provincial Disaster Risk Reduction and Management Councils (PDRRMCs).
- b. The Disaster Management and Response Teams at the Field Office and SWAD Teams of the provinces were placed on standby. In case TD "KIKO" will accelerate its strength in the region, the DMRT will activate.
- c. The Field Office has available standby funds of ₱10,315,246.43 and 10,764 family food packs for augmentation assistance to LGUs. Likewise, there were available 4,700 prepositioned family food packs in the 4 provinces of the region.
- d. Repacked the available goods (229 sacks of NFA Rice, 232 boxes of corned beef, 222 sardines, 58 boxes of meat loaf, 20 boxes of sausage, and 333 boxes of Blend 45 Coffee 3-in-1).

DOH II

- a. Issued memorandum re Activation of code white alert in DOH RO II, DOH retained hospitals and in the PDOHOs of the 4 provinces in the region.
- b. Prepositioned drugs and medicines and other logistics amounting to ₱250,000.00 per province.
- c. Actively monitored the situation thru tri-media (radio, TV, and internet).
- d. Coordinated with OCD, HEMB, PNP, BFP, and other C/PDRRMC member agencies.

PCG Coast Guard Northern Luzon

- a. Monitored PAGASA weather bulletins and strict implementation of the Guidelines on Movement of Vessels during Heavy Weather forecast and

- other PCG rules and regulations.
- b. Quick Response Teams, OPCON SAR units/vessels, and other responding team/units were placed on standby for immediate dispatch/deployment.

PIA II

- a. Disseminated bulletins/advisories/updates thru SMS re TD “KIKO” to all local media outlets and information officers.
- b. Sent SMS updates to the PIA Central Office and posted at the official website of the Philippine Information Agency Region II.
- c. Posted a press release via PIA’s website.

PNP PRO II

- a. Disseminated latest weather bulletin/advisories to all PPOs and SCPO.
- b. Coordinated with the RDRRMOC and LGUs re TD “KIKO”.
- c. All PDs and CD, SCPO, BC, RPSB II were on standby with their disaster response teams particularly in the disaster prone and low-lying areas in coordination with respective PDRRMC and ensured readiness of the SAR equipment and supplies in coordination with P/MDRRMC to support the operational requirements.
- d. Monitored all overflow bridges and water levels.

PDRRMC Isabela

- a. Monitored the situation and disseminated weather bulletins/advisories in AOR.

CDRRMC Cauayan

- a. Monitored the status of roads, bridges, water level of Magat Dam, and plotting of storm track gathered from PAGASA
- b. Disseminated weather advisories/bulletins thru radio base communication and social media accounts and situation report to all concern member agencies. Ensured all communication/hotlines were open for inquiries regarding TS “KIKO”.

PDRRMC Quirino and Nueva Vizcaya

- a. Monitored and disseminated weather bulletins/advisories to AOR.
- b. Coordinated with MDRRMCs re the situation in their AOR.

PDRRMC Cagayan

- a. Placed on Red Alert Status on 04 September 2017.
- b. Hourly monitored water level in Tuguegarao Gauging Station (Buntun Bridge), Isabela, Quirino province tributaries and upper main Cagayan River including all tributaries in the province of Cagayan.
- c. Coordinated with C/MDRRMOs and other stakeholders on the activities undertaken re TD “KIKO”.
- d. Placed all responders in the province in full alert status
- e. Conducted inventory of resources.
- f. Disseminated weather bulletin/advisories to C/MDRRMCs.

3. REGION CAR

OCD CAR

- a. Issued Cordillera RDRRMC Memorandum No. 17 on 05 September 2017 re Upgrading the Alert Status of the Cordillera Regional DRRM Council Operations Center to BLUE ALERT to all Cordillera Regional DRRM Council members and LDRRMCs.
- b. Issued Cordillera RDRRMC Memorandum No. 18 on 25 August 2017 re

Preparedness Measures for TD “KIKO”.

- c. Alerted P/MDRRMOs regarding possible threats of TD “KIKO” through issuance of Public Advisory.
- d. Disseminated weather advisories and alert status to all stakeholders through all means of communications.
- e. Coordinated with Provincial, City, Municipal LGUs, and LDRRMCs.
- f. Coordinated with PAGASA Baguio Synoptic Station and disseminated weather advisories/bulletins to the public, LDRRMCs, and member agencies of Cordillera RDRRMC.
- g. Coordinated with LDRRMCs in the region on weather status, road conditions, reported incidents, and class suspensions.
- h. Advised all LDRRMCs Operations Centers and member agencies of the regional council to take proactive measures.
- i. Coordinated with the management of tourist spots in the region to control influx of tourists to avoid untoward incidents.
- j. Activated the Early Warning System through SMS for massive information dissemination of weather updates and preparedness advisories.
- k. Placed Thuraya Emergency Communications Kit and single-side band radios on standby.
- l. Issued preparedness tips to prevent any possible eventualities due to the said weather disturbance.

DSWD CAR

- a. Coordinated with the P/M/CSWDOs and P/M/CDRRMOs to monitor the situation.
- b. Prepositioned relief packs for possible distribution.

DILG CAR

- a. Alerted LGUs to ensure preparedness measures were in place.

DPWH CAR

- a. Activated all disaster response teams within the AOR.
- b. Prepositioned equipment and manpower.
- c. Advised contractors to make equipment available, especially those near the affected areas.

PIA CAR

- a. Coordinated and communicated with the OCD CAR in gathering important details for information sharing to the public.
- b. Disseminated warnings to the public through SMS and Social Media.

PDRRMC Apayao

- a. Conducted PDRA Meeting on 05 September 2017 and raised alert status to RED effective 8:00 AM.

PDRRMC Kalinga

- a. Placed on Blue alert status on 05 September 2017, 8:00 AM.
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