



Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
Philippine Atmospheric, Geophysical and Astronomical Services
Administration (PAGASA)
Mindanao PAGASA Regional Services Division (MPRSD)

CLIMATE ADVISORY No. 3 (La Niña)
Issued on 06 November 2020

MONTHLY CLIMATE ASSESSMENT AND OUTLOOK FOR MINDANAO

La Niña condition continues to prevail in the Tropical Pacific and is likely to persist until the first quarter of 2021.¹ Majority of the areas in Mindanao received above normal rainfall during the month of October 2020. Most climate models suggest a continuation of La Niña conditions in the next coming months. Consequently, potential adverse impacts include flooding in low-lying areas, rain-induced landslides and overflowing of rivers over vulnerable areas, with varying magnitude. All concerned agencies are continuously advised to take precautionary measures to mitigate these hydrometeorological hazards.

Climate Assessment for October 2020

During the month, five (5) *tropical cyclones* entered the Philippine Area of Responsibility (PAR), namely Tropical Storm “*Nika*”, Tropical Depression “*Ofel*”, Typhoon “*Pepito*”, Typhoon “*Quinta*”, and Super Typhoon “*Rolly*”. These tropical cyclones caused the enhancement of *Southwest Monsoon* which affected Mindanao bringing heavy rains resulting to flooding, rain-induced landslides and overflowing of rivers and creeks in some areas. Other weather systems that affected Mindanao include *Low Pressure Areas (LPAs)*, *trough of LPAs*, *Tail-end of Frontal System*, and *localized thunderstorms*.

Rainfall analysis during the month indicated that Mindanao experienced *near to above normal rainfall* conditions (See Figure 1 and Table 1). Data also show that most of the weather stations have experienced *sixteen (16) to twenty (20) wet days*ⁱⁱ. It can be noted that *Malaybalay* station recorded twenty-eight (28) *wet days* for the entire month of October 2020. In comparison to the climatological normal, *Malaybalay* station experienced higher than the average number of wet days (See Figure 2). In similar manner, *Surigao* and *Dipolog* stations also experienced above normal number of wet days (See Figure 2).

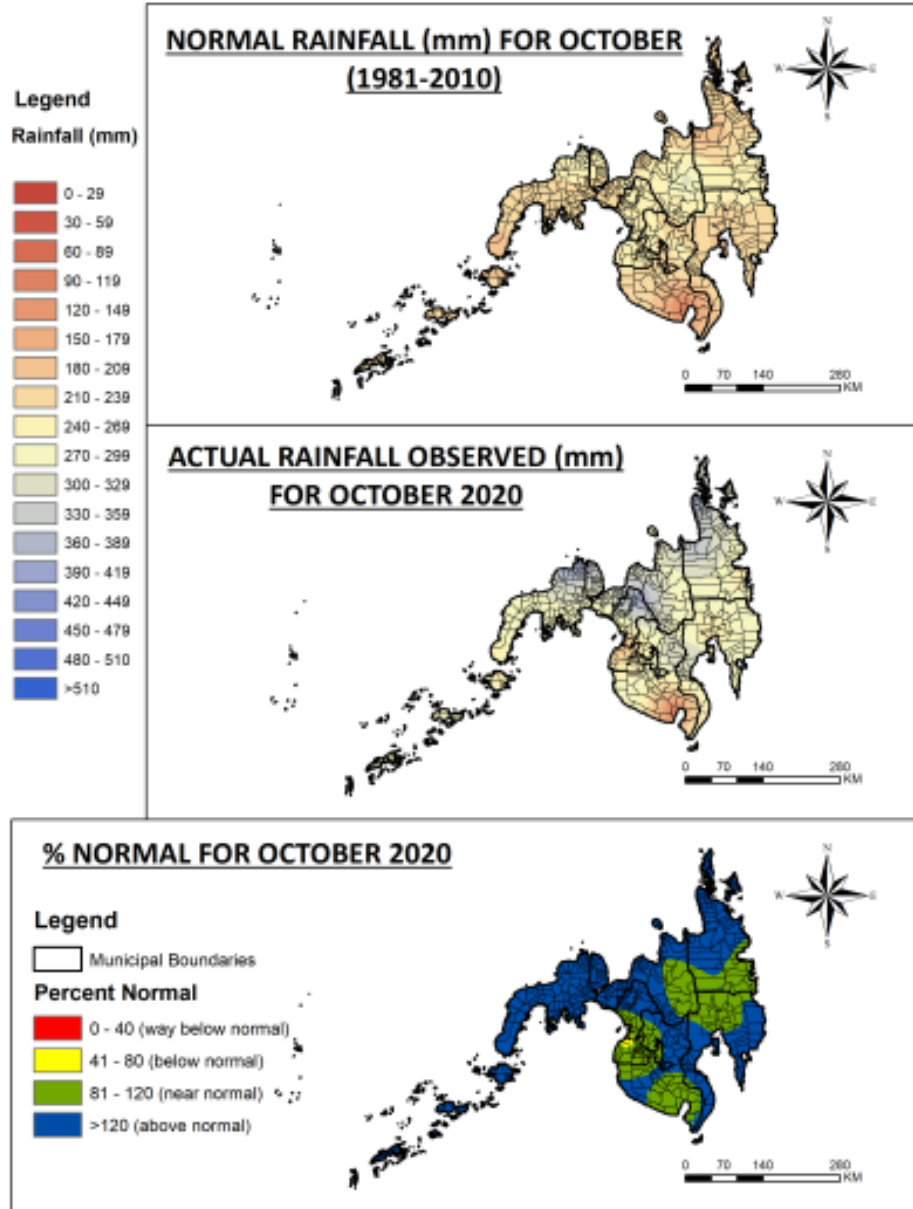


Figure 1. Actual and %Normal Rainfall in Mindanao for October 2020

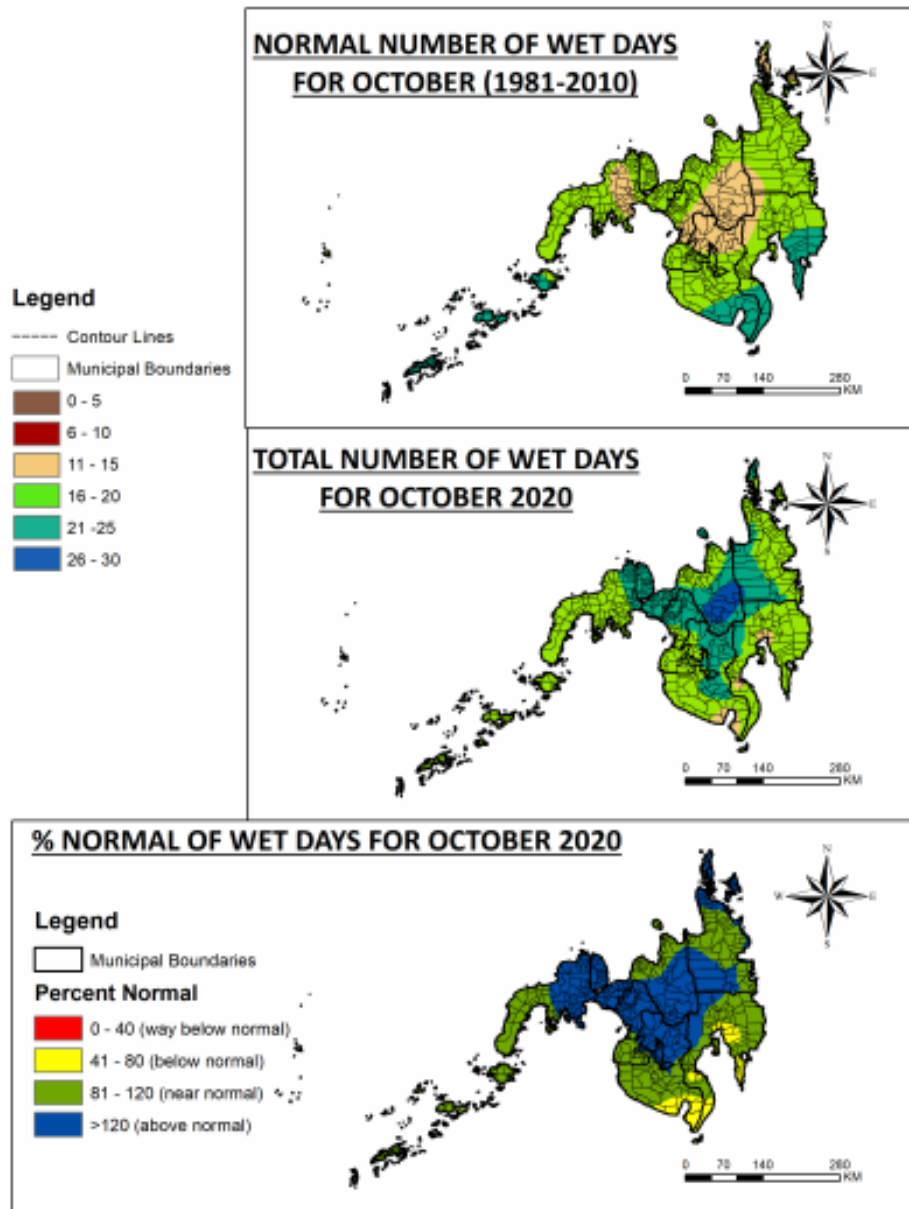


Figure 2. Actual and %Normal Dry Days in Mindanao for October 2020



Table 1. Observed Rainfall for Jan – Oct 2020 and Forecast Rainfall for Nov 2020 – Jan 2021

PROVINCE	OBSERVED RAINFALL										FORECAST RAINFALL		
	JAN '20	FEB '20	MAR '20	APR '20	MAY '20	JUN '20	JUL '20	AUG '20	SEP '20	OCT '20	NOV '20	DEC '20	JAN '21
REGION IX (ZAMBOANGA PENINSULA)													
ZAMBOANGA DEL NORTE	Red	Yellow	Green	Red	Yellow	Green	Green	Blue	Yellow	Blue	Green	Blue	Blue
ZAMBOANGA DEL SUR	Red	Yellow	Green	Yellow	Yellow	Blue	Green	Blue	Yellow	Blue	Green	Blue	Blue
ZAMBOANGA SIBUGAY	Red	Yellow	Blue	Yellow	Green	Green	Green	Blue	Yellow	Blue	Green	Blue	Blue
REGION X (NORTHERN MINDANAO)													
BUKIDNON	Red	Red	Yellow	Red	Yellow	Blue	Green	Blue	Yellow	Green	Blue	Blue	Blue
CAMIGUIN	Red	Green	Yellow	Yellow	Red	Blue	Green	Blue	Yellow	Blue	Green	Blue	Blue
LANAO DEL NORTE	Red	Yellow	Green	Yellow	Blue	Blue	Green	Blue	Yellow	Blue	Green	Blue	Blue
MISAMIS OCCIDENTAL	Red	Yellow	Green	Red	Green	Blue	Green	Blue	Yellow	Blue	Green	Blue	Blue
MISAMIS ORIENTAL	Red	Red	Green	Red	Yellow	Green	Green	Blue	Yellow	Blue	Green	Blue	Blue
REGION XI (DAVAO REGION)													
DAVAO DE ORO	Yellow	Yellow	Yellow	Red	Blue	Blue	Red	Blue	Yellow	Blue	Green	Blue	Blue
DAVAO CITY	Yellow	Red	Red	Yellow	Green	Blue	Green	Blue	Yellow	Blue	Green	Blue	Blue
DAVAO DEL NORTE	Yellow	Red	Yellow	Red	Blue	Blue	Green	Blue	Yellow	Blue	Green	Blue	Blue
DAVAO DEL SUR	Green	Yellow	Yellow	Yellow	Yellow	Blue	Blue	Yellow	Yellow	Blue	Green	Blue	Blue
DAVAO OCCIDENTAL	Green	Yellow	Green	Red	Yellow	Green	Green	Blue	Yellow	Blue	Green	Blue	Blue
DAVAO ORIENTAL	Yellow	Yellow	Yellow	Yellow	Blue	Blue	Red	Blue	Yellow	Blue	Green	Blue	Blue
REGION XII (SOCCSKSARGEN)													
SOUTH COTABATO	Green	Yellow	Green	Red	Yellow	Green	Yellow	Green	Yellow	Green	Green	Blue	Blue
NORTH COTABATO	Yellow	Red	Yellow	Yellow	Green	Blue	Blue	Green	Yellow	Blue	Green	Blue	Blue
SARANGANI	Blue	Yellow	Green	Red	Yellow	Green	Green	Blue	Yellow	Blue	Green	Blue	Blue
SULTAN KUDARAT	Yellow	Yellow	Green	Yellow	Yellow	Blue	Yellow	Blue	Yellow	Blue	Green	Blue	Blue
REGION XIII (CARAGA)													
AGUSAN DEL NORTE	Red	Yellow	Yellow	Yellow	Yellow	Blue	Blue	Blue	Green	Blue	Green	Blue	Blue
AGUSAN DEL SUR	Red	Yellow	Yellow	Yellow	Green	Blue	Blue	Blue	Green	Blue	Green	Blue	Blue
DINAGAT ISLANDS	Yellow	Green	Yellow	Yellow	Yellow	Blue	Green	Blue	Yellow	Blue	Green	Blue	Blue
SURIGAO DEL NORTE	Red	Green	Yellow	Yellow	Yellow	Blue	Green	Blue	Green	Blue	Green	Blue	Blue
SURIGAO DEL SUR	Red	Yellow	Yellow	Yellow	Blue	Blue	Blue	Blue	Yellow	Blue	Green	Blue	Blue
BARMM													
BASILAN	Yellow	Green	Blue	Yellow	Blue	Blue	Green	Green	Green	Blue	Blue	Green	Blue
MAGUINDANAO	Yellow	Yellow	Yellow	Red	Yellow	Blue	Green	Blue	Yellow	Blue	Green	Blue	Blue
LANAO DEL SUR	Red	Red	Yellow	Yellow	Blue	Blue	Green	Blue	Yellow	Blue	Green	Blue	Blue
SULU	Yellow	Yellow	Blue	Yellow	Blue	Blue	Green	Blue	Yellow	Blue	Blue	Blue	Blue
TAWI-TAWI	Yellow	Green	Blue	Yellow	Blue	Blue	Green	Blue	Yellow	Blue	Blue	Blue	Blue

Legend:





Climate Outlook for November-December-January (NDJ) 2020-21

Weather systems that will likely affect Mindanao during the period include *Tropical Cyclones, Low Pressure Areas (LPAs), Intertropical Convergence Zone (ITCZ), Northeast Monsoon, Easterlies, Tail-end of Cold Front* and *localized thunderstorms*.

PAGASA CAD-CLIMPS rainfall forecast suggests that Mindanao is likely to receive *near to above normal rainfall* for November to December 2020, while *above normal* rainfall is expected for January 2021. Seasonal climate forecasts from various modelsⁱⁱⁱ ^{iv} and multi-model ensembles^v ^{vi} indicate that above normal rainfall is likely to be experienced in Mindanao for Nov-Dec-Jan 2020-21. Meanwhile, Table 2 shows the forecast dry days for different provinces in Mindanao. Moreover, temperature forecast^{vii} indicates that Mindanao will likely experience near to warmer than average surface temperatures during Nov-Dec-Jan 2020-21 season.

Table 2. Forecast Dry Days in Mindanao for November-December-January (NDJ) 2020-21^{ix}

PROVINCE	FORECAST		
	NOVEMBER 2020	DECEMBER 2020	JANUARY 2021
REGION IX (ZAMBOANGA PENINSULA)			
ZAMBOANGA DEL NORTE	12	17	16
ZAMBOANGA DEL SUR	12	17	16
ZAMBOANGA SIBUGAY	12	18	17
REGION X (NORTHERN MINDANAO)			
BUKIDNON	15	18	14
CAMIGUIN	19	20	14
LANAO DEL NORTE	15	19	17
MISAMIS OCCIDENTAL	13	16	15
MISAMIS ORIENTAL	19	19	15
REGION XI (DAVAO REGION)			
COMPOSTELA VALLEY/ DAVAO DE ORO	15	18	14
DAVAO CITY	16	21	16
DAVAO DEL NORTE	15	19	15
DAVAO DEL SUR	19	22	18
DAVAO OCCIDENTAL	22	23	20
DAVAO ORIENTAL	16	18	14
REGION XII (SOCCSKSARGEN)			
SOUTH COTABATO	20	22	20
NORTH COTABATO	16	21	17
SARANGANI	22	23	21
SULTAN KUDARAT	17	21	19
REGION XIII (CARAGA)			
AGUSAN DEL NORTE	15	14	9
AGUSAN DEL SUR	14	15	9
DINAGAT ISLANDS	9	7	5
SURIGAO DEL NORTE	10	8	5
SURIGAO DEL SUR	12	10	5
BARMM			
BASILAN	18	25	22
MAGUINDANAO	15	20	18
LANAO DEL SUR	16	20	17
SULU	19	27	24
TAWI-TAWI	17	27	25



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With this development, MPRSD will continue to closely monitor the ongoing La Niña that may affect Mindanao islands. Updates shall be issued as appropriate. All concerned Government Units and institutions including non-government organizations and the general public are advised to take appropriate actions concerning this current climate conditions and keep monitoring for updates. For further information, please contact the Mindanao PAGASA Regional Services Division (MPRSD) at (088) 555-0485 or the Climatology and Agrometeorology Division (CAD) at (02) 8284-0800 local 906.

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¹ Onset of La Niña 2020, issued by PAGASA Climatology and Agrometeorology Division-Climate Monitoring and Prediction Section (CAD-CLIMPS) on 02 Oct 2020.

² Wet day is defined as a day with ≥ 1 mm of rain.

³ National Weather Service (NWS) Climate Prediction Center (CPC) / National Oceanic and Atmospheric Administration (NOAA). Seasonal climate forecast from CFSv2 for Nov 2020 to Jul 2021, updated 03 November 2020.

⁴ UK Met Office. Global long-range model probability maps for NDJ 2020-21, issued October 2020.

⁵ International Research Institute for Climate and Society. IRI Multi-Model Probability Forecast for Precipitation for NDJ 2020-21, issued October 2020.

⁶ World Meteorological Organization (WMO) Lead Centre for Long-Range Forecast (LRF) Multi-Model Ensemble (MME) issued on October 2020.

⁷ APEC Climate Center (APCC) seasonal forecasts issued on 20 October 2020.

⁸ Forecast Mean Temperature Anomaly relative to 1981-2010 for NDJ 2020-21, issued by PAGASA CAD-CLIMPS.

⁹ Forecast Dry Day for November 2020 - April 2021, issued by PAGASA CAD-CLIMPS.