



PMO MISAMIS ORIENTAL/CAGAYAN DE ORO
PHILIPPINE PORTS AUTHORITY
PMO Admin Bldg. 2, Gate 5, Agora Road, Puntod, Cagayan de Oro City

PORT ADVISORY/BULLETIN/ANNOUNCEMENT
PABA No. PPD 002-2021

DATE: 07 January 2021	No. of pages including this page: One (1) page
TO: PPA Personnel Terminal Management Offices CHO Personnel Other Port Stakeholders All Others Concerned	Emails:
FROM: The Port Police Division Manager	Email: bagartalia@ppa.com.ph PPD Email: moc_ppd@ppa.com.ph PMO Fax: (088) 856-4667
CC: Division Managers and other concerned units of this PMO	
SUBJECT: CLIMATE ADVISORY NO. 5 (LA NIÑA) ISSUED BY DOST-PAGASA-MPRSD DATED 6 JANUARY 2021	
<i>ATTENTION: If you have received this communication with missing, incomplete, garbled or unreadable pages, please notify us at once through Tel.(088)856-1264; Fax(088) 856-4667; Email Address: ppapmocdo@ppa.com.ph or moc_ppd@ppa.com.ph</i>	
MESSAGE:	
<p>Respectfully disseminating herewith the recent Climate Advisory No. 5 (La Niña) issued by the Weather Services Chief of Mindanao PAGASA Regional Services Division (MPRSD) of Department of Science and Technology – Philippine Atmospheric, Geophysical and Astronomical Services Administration dated 6 January 2021 for guidance of all concerned.</p> <p>All concerned personnel/units are advised to take appropriate actions concerning this current climate conditions and keep monitoring for updates which will be provided by MPRSD as soon as necessary.</p> <p>For guidance and ready reference.</p>	
<p> PPSUPT BERNARDO A GARTALIA</p> <p>Encl: A/S</p> 	
<i>(Note: This communication has also digitally scanned and transmitted to your official email addresses. Please be advise this Office of any changes in said addresses, or of alternative addresses. Email Adresses of port users and stakeholders</i>	



CLIMATE ADVISORY No. 5 (La Niña)
Issued on 06 January 2021

MONTHLY CLIMATE ASSESSMENT AND OUTLOOK FOR MINDANAO

Majority of the climate models suggest a continuation of La Niña conditions until January-February-March 2021 season, with 95% probability. It has an increasing chance of returning to ENSO neutral during April-May-June 2021 season, with 50% probability.ⁱ There is yet an increased likelihood of above normal rainfall during January-February-March 2021 season that can lead to potential adverse impacts including flooding in low-lying areas, rain-induced landslides and overflowing of rivers over vulnerable areas, with varying magnitude. All concerned agencies are still advised to take precautionary measures to mitigate these hydrometeorological hazards.

Climate Assessment for December 2020

During the month, one (1) *tropical cyclone* entered the Philippine Area of Responsibility (PAR). It was named Tropical Depression (TD) “VICKY” {KROVANH}. TD VICKY have caused floodings and rain-induced landslides while traversing the landmass of Mindanao. Consequently, PAGASA River Centers in Mindanao issued *Basin Flood Advisories* during the passage of TD VICKY (Refer to Table 1). The National Disaster Risk Reduction and Management Council (NDRRMC) reported four (4) incidents of floodings and one (1) incident of rain-induced landslide in CARAGA due to TD VICKY (Refer to Table 2); fortunately, no casualties were reported over these areas.ⁱⁱ Information obtained from the NDRRMC indicated damaged houses over Davao de Oro, Agusan del Sur, Dinagat Island and Surigao del Sur; including damaged infrastructures in Region XI and CARAGA; and damaged agriculture in Davao de Oro, Agusan del Norte, Agusan del Sur, Surigao del Norte and Surigao del Sur.ⁱⁱⁱ Other weather systems that affected Mindanao during the month include *Low Pressure Areas (LPAs), trough of LPAs, Easterlies* and *localized thunderstorms*.

Table 1. Flood Advisories issued by PAGASA River Centers in Mindanao during the passage of TD VICKY.

RIVER BASIN FLOOD FORECASTING AND WARNING CENTER	NO. OF ISSUANCES
Davao River Basin	2
Tagum-Libuganon River Basin	3
Cagayan de Oro River Basin	2

Table 2. Monitored Incidents in CARAGA by the NDRRMC.

PROVINCE	CITY / MUNICIPALITY
FLOODING	
Surigao del Sur	Bislig City
Agusan del Sur	Prosperidad
	San Francisco
	Rosario
LANDSLIDE	
Surigao del Sur	Brgy. San Rafael, Bislig City

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Rainfall analysis during the month indicated that majority of the areas in Mindanao received *above normal rainfall* (Refer to Figure 1 and Table 3). Data also show that most areas in Mindanao experienced higher than the average number of wet days in comparison to the 1981-2010 climatological normal, except for CARAGA that has near normal number of wet days (Refer to Figure 2).

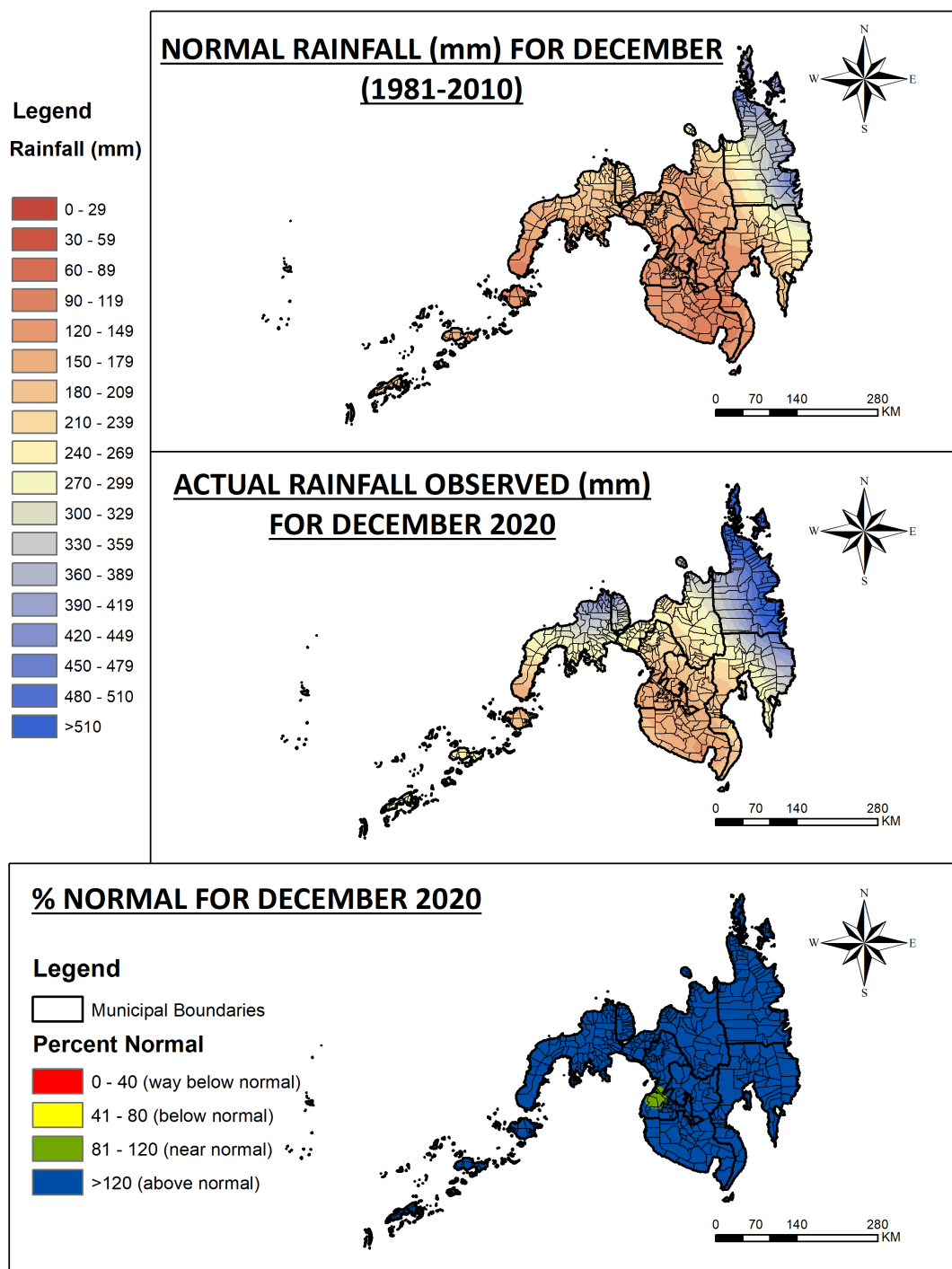


Figure 1. Actual and %Normal Rainfall in Mindanao for December 2020

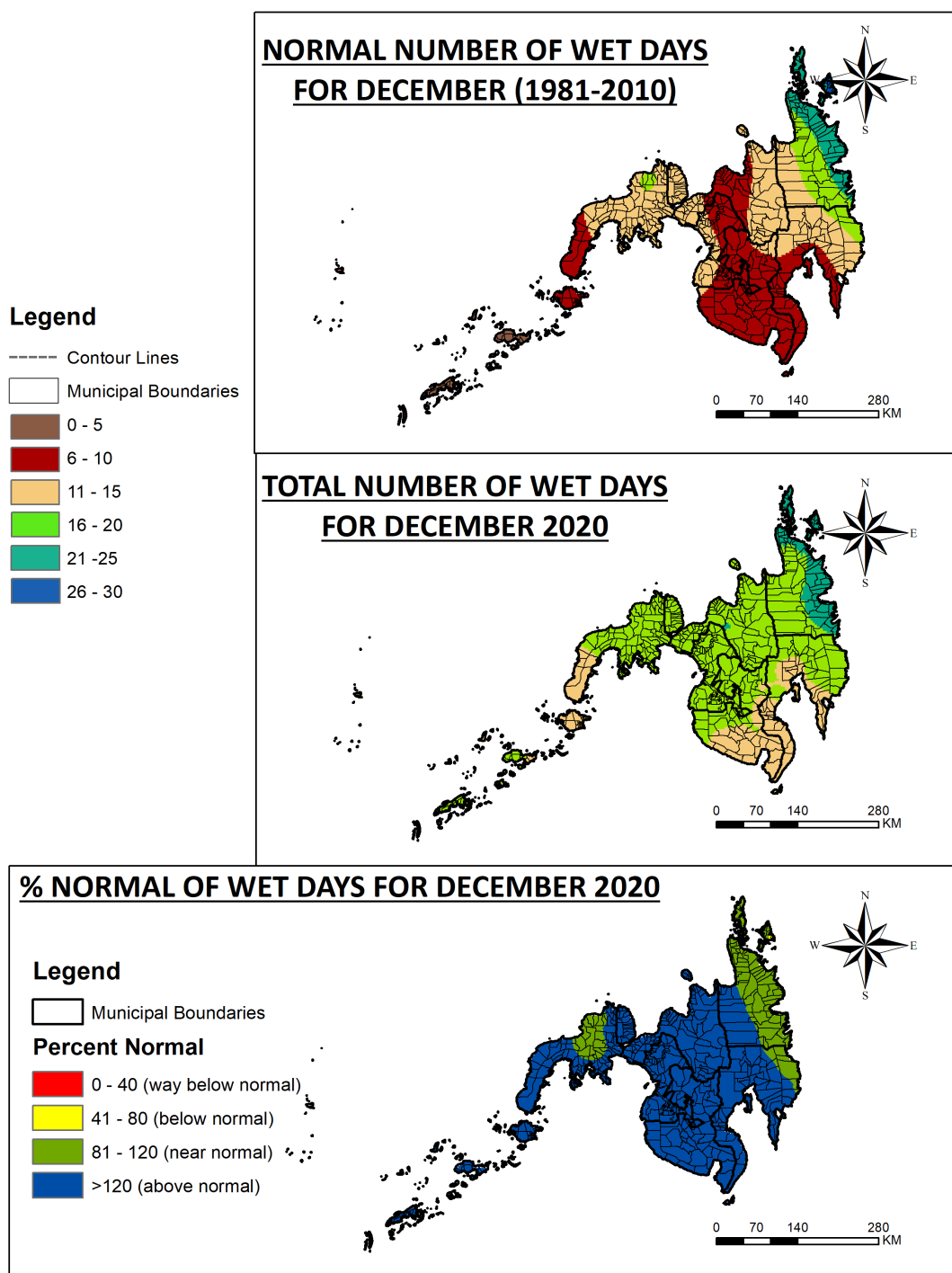


Figure 2. Actual and %Normal Wet Days in Mindanao for December 2020



Table 3. Observed Rainfall for July – December 2020 and Forecast Rainfall for January – June 2021

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

Legend:





Seasonal Climate Outlook for January to June 2021

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 Frontal System (shearline), localized thunderstorms, transition from Northeast Monsoon to Southwest Monsoon (May-June)*.

PAGASA CAD-CLIMPS rainfall forecast suggests that most areas in Mindanao is likely to receive *above normal rainfall* for *January-February-March (JFM) 2021 season*; while *near normal rainfall* is expected for *April-May-June (AMJ) 2021 season*. These rainfall forecasts are notably in agreement with majority of the seasonal climate forecasts from various international climate models^{iv} and multi-model ensembles^{v vi vii}. Meanwhile, Table 2 shows the forecast dry days for the different provinces in Mindanao. Moreover, temperature forecast^{viii} indicates that Mindanao will likely experience near to warmer than average surface temperatures for *January to June 2021*.



Table 2. Forecast Dry Days in Mindanao for January to June 2021^{ix}

PROVINCE	FORECAST					
	JAN 2021	FEB 2021	MAR 2021	APR 2021	MAY 2021	JUN 2021
REGION IX (ZAMBOANGA PENINSULA)						
ZAMBOANGA DEL NORTE	19	19	24	20	21	15
ZAMBOANGA DEL SUR	20	19	24	19	20	14
ZAMBOANGA SIBUGAY	20	20	24	19	20	15
REGION X (NORTHERN MINDANAO)						
BUKIDNON	18	17	23	21	15	11
CAMIGUIN	18	17	25	25	24	20
LANAO DEL NORTE	20	19	24	22	20	14
MISAMIS OCCIDENTAL	19	18	24	21	21	15
MISAMIS ORIENTAL	19	17	25	23	21	16
REGION XI (DAVAO REGION)						
COMPOSTELA VALLEY/ DAVAO DE ORO	15	15	20	19	18	17
DAVAO CITY	20	19	22	20	14	13
DAVAO DEL NORTE	18	17	22	20	16	14
DAVAO DEL SUR	22	20	23	21	17	16
DAVAO OCCIDENTAL	23	19	26	24	23	21
DAVAO ORIENTAL	15	14	20	19	20	19
REGION XII (SOCCSKSARGEN)						
SOUTH COTABATO	22	18	24	23	21	17
NORTH COTABATO	21	19	22	20	14	12
SARANGANI	23	18	26	25	23	20
SULTAN KUDARAT	21	18	22	21	18	15
REGION XIII (CARAGA)						
AGUSAN DEL NORTE	11	12	18	18	20	17
AGUSAN DEL SUR	11	12	18	17	17	15
DINAGAT ISLANDS	5	6	13	15	21	18
SURIGAO DEL NORTE	5	7	12	15	20	18
SURIGAO DEL SUR	6	7	12	13	17	17
BARMM						
BASILAN	26	22	26	22	24	18
MAGUINDANAO	21	18	21	20	16	13
LANAO DEL SUR	21	19	23	22	18	13
SULU	27	23	27	22	25	19
TAWI-TAWI	28	24	27	22	25	20

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With this development, MPRSD will continue to closely monitor the ongoing La Niña, which could influence development of extreme weather conditions that can adversely 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.


ANTHONY JOSEPH R. LUCERO, M.Sc. 
Weather Services Chief
Mindanao PAGASA Regional Services Division

ⁱ El Niño / La Niña Monitoring by PAGASA CAD-CLIMPS, PAGASA Official Website, viewed on 06 January 2021.

ⁱⁱ NDRRMC Update: Sitrep No. 07 re Preparedness Measures and Effects for Tropical Depression “VICKY” (I.N. “KROVANH”), updated 26 December 2020.

ⁱⁱⁱ Ibid.

^{iv} National Weather Service (NWS) Climate Prediction Center (CPC) / National Oceanic and Atmospheric Administration (NOAA). Seasonal climate forecast from CFSv2 for Jan 2021 to Sep 2021, updated 05 January 2021.

^v International Research Institute for Climate and Society. IRI Multi-Model Probability Forecast for Precipitation for JFM 2021 and AMJ 2021, issued December 2020.

^{vi} World Meteorological Organization (WMO) Lead Centre for Long-Range Forecast (LRF) Multi-Model Ensemble (MME) issued on December 2020.

^{vii} APEC Climate Center (APCC) Deterministic and Probabilistic Multi-model Ensemble (MME) Forecasts, issued on 21 December 2020.

^{viii} Forecast Mean Temperature Anomaly relative to 1981-2010 for January to June 2021, issued by PAGASA CAD-CLIMPS.

^{ix} Forecast Dry Days for January - June 2021, issued by PAGASA CAD-CLIMPS.