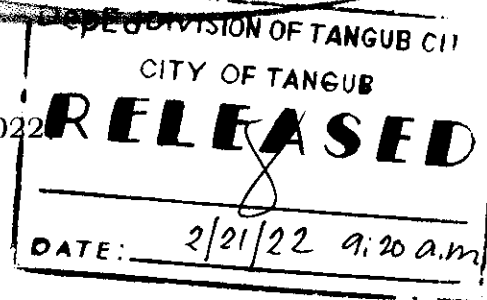




February 21, 2022




DIVISION MEMORANDUM

No. 44, s. 2022

DISSEMINATION OF REGIONAL ADVISORY NO. 34, S. 2022
(LA NIÑA ADVISORY NO. 4 FOR MINDANAO)

To: Chief Education Supervisors (CID and SGOD)
District In-Charge
Elementary and Secondary School Heads
Elementary and Secondary School DRRRM Coordinators
This Division

1. Mindanao PAGASA Regional Services Division (MPRSD) has been continuously monitoring the weather systems that affect Mindanao. Accordingly, La Niña continues to prevail over the tropical pacific. Most climate models combined with expert judgment suggest the likely persistence of La Niña until March-April-May (MAM) 2022 season and the return to El Niño-Southern Oscillation (ENSO)-Neutral during April-May-June (AMJ) 2022 Season.
2. See attached **REGIONAL ADVISORY NO. 34, S. 2022** for your reference.
3. Wide dissemination of this Memorandum is desired.


AGUSTINES E. CEPE, CESO V
Schools Division Superintendent





Republic of the Philippines
Department of Education
REGION X - NORTHERN MINDANAO

0770
Cmag
2/17/22

Office of the Regional Director

Regional Advisory No. 34, s. 2022

February 16, 2022

This Advisory is issued for the information of DepEd Officials,
personnel/staff, learners, and the concerned public.
(Visit deped10.com)

LA NIÑA ADVISORY NO. 4 FOR MINDANAO

Mindanao PAGASA Regional Services Division (MPRSD) has been continuously monitoring the weather systems that affect Mindanao. Accordingly, La Niña continues to prevail over the tropical pacific. Most climate models combined with expert judgment suggest the likely persistence of La Niña until March-April-May (MAM) 2022 season (~60% chance), and the return to El Niño-Southern Oscillation (ENSO)-Neutral during April-May-June (AMJ) 2022 season.

In addition, weather systems that will likely affect Mindanao during the period of February to July 2022 include Tropical Cyclones, Low Pressure Areas (LPAs), Intertropical Convergence Zone (ICTZ), Easterlies, Northeast Monsoon (in transition up to mid-way). Yet, monthly deterministic forecasts from computer models suggest that most areas in the Region will likely receive **near-to-above-normal rainfall** from February until March 2022 and **mostly-near-normal rainfall** from April to July 2022.

Hence, with the development of these above normal rainfall conditions to be expected over some parts of the country in the coming several months, potential adverse impacts of the developing La Niña will include floods and landslides over vulnerable areas with varying magnitude. All DRRM coordinators, school heads, teachers, and other concerned personnel shall take precautionary measures to mitigate the potential adverse impacts of La Niña.

Please be aware of the regular updates and advisories to be issued, as appropriate, in monitoring these weather conditions. For more information, please coordinate with the regional disaster risk reduction and management coordinator at 0926-568-0095 or e-mail at drmrsto.drgonza@deped.gov.ph. You may also contact Mindanao PAGASA Regional Services Division (MPRSD) at (088) 555-0485 or Climatology and Agrometeorology Division (CAD) at 8284-0800 or e-mail at pagasaa10@deped.gov.ph.

This Office directs the immediate and wide dissemination of this Advisory.


DR. ARTURO B. BAYOCOT, CESO III
Regional Director

ESSD/chard



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Issued on 08 February 2022

LA NIÑA ADVISORY NO. 4 FOR MINDANAO

La Niña continues to prevail over the Tropical Pacific. Most climate models combined with expert judgement suggest the likely persistence of La Niña until March-April-May (MAM) 2022 season (~60% chance), and the return to ENSO-neutral during April-May-June (AMJ) 2022 season.¹

Climate Assessment for January 2022

The weather systems that affected Mindanao during the month include *Intertropical Convergence Zone (ITCZ)*, *Low Pressure Area (LPA)*, *Trough of LPA*, *Shear Line*, *Northeast Monsoon*, *Easterlies* and *localized thunderstorms*. No tropical cyclone (TC) entered the Philippine Area of Responsibility (PAR) during the month. In total, MPRSD issued twenty (20) Heavy Rainfall Warnings due to the aforementioned weather systems (Table 1). Reported incidents due to heavy rains are shown in Figure 1.

Table 1. Heavy Rainfall Warnings issued by MPRSD Local Weather Forecasting Section for January 2022.

WEATHER SYSTEM	HEAVY RAINFALL WARNINGS		
	Yellow	Orange	Red
Shear Line	4	0	0
Northeast Monsoon	3	2	0
Trough of Low Pressure Area / Wind Convergence	4	0	0
Low Pressure Area	5	2	0
TOTAL	16	4	0

In comparison to the forecasted *near normal with patches of above normal rainfall* in Mindanao for January 2022, actual rainfall analysis showed that *below to near normal rainfall* were received in the region (Figure 2 and Table 2).

Based on the weather observations in Mindanao (Table 2), **Surigao** station recorded the **highest total monthly rainfall**. It documented an actual rainfall amount (i.e. **557.9mm**) near its climatological normal value (i.e. **609.4mm**) for January. Furthermore, **Surigao** also recorded the **greatest 24-hour rainfall** for the month, and the **highest number of wet days**. Meanwhile, **Zamboanga** station recorded the **lowest total monthly rainfall** and the **lowest number of wet days**. More analysis showed that mostly near normal with patches of below and above normal number of wet days were observed in Mindanao for the month of January (Figure 3).

Meanwhile, **Malaybalay** and **Zamboanga** stations exceeded their previous climatological extremes in terms of maximum temperature (Table 3).

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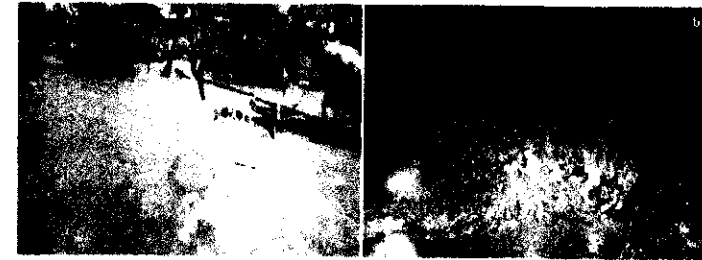


Figure 1. (a) Flooded community in Mawab, Davao de Oro on 16 January 2022 due to the Shear Line. (b) Fallen trees in Santo Tomas, Davao del Norte on 17 January 2022 caused by heavy rains brought by the Shear Line.

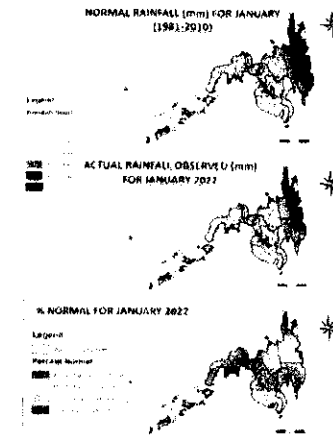


Figure 2. Actual Rainfall Observed (mm and %Normal) in Mindanao for January 2022.

News: Jasmin Joy Evangelista of BULGAR Online / Photo: MDRRMO Mawab, Davao de Oro
 News/Photo: Official Facebook Account of the Municipal Government of Santo Tomas, Davao del Norte.

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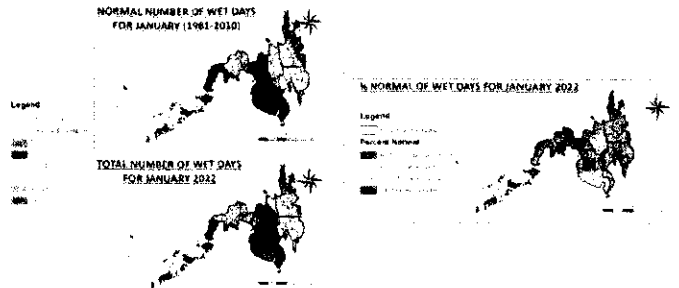


Figure 3. Actual Number of Wet Days (mm and %Normal) in Mindanao for January 2022.

Table 2. Monthly Rainfall Assessment in Mindanao for January 2022.

STATION	RAINFALL								
	Total Monthly RR, mm	NORMAL Monthly RR, mm	QUANTITATIVE CLASSIFICATION	QUALITATIVE CLASSIFICATION	Greatest Daily RR, mm	Date of Greatest Daily RR	EXTREME Greatest Daily RR, mm	EXTREME Date of Greatest Daily RR	No. of wet days
Mataydeley	60.3	142.5	42.3	BELOW NORMAL	24.6	16-Jan-2022	142.5	14-Jan-2014	8
Bulan	227.7	318.9	71.6	BELOW NORMAL	80.4	24-Jan-2022	277.5	4-Jan-1985	19
Sungay	577.5	655.4	91.5	BELOW NORMAL	140.8	1-Jan-2022	351.5	24-Jan-1963	21
Colabayo	59.7	88.4	67.5	BELOW NORMAL	38.2	27-Jan-2022	62.4	31-Jan-2004	8
Dapog	56.8	129.2	74.9	BELOW NORMAL	35.2	13-Jan-2022	226.5	23-Jan-1961	16
Davao	50.7	140.9	64.8	BELOW NORMAL	41.0	13-Jan-2022	122.4	28-Jan-2003	8
Malabon	341.1	776.3	69.7	BELOW NORMAL	102.6	24-Jan-2022	374.0	29-Jan-1995	20
Zamboanga	57.1	49.7	114.9	BELOW NORMAL	12.4	25-Jan-2022	128.0	23-Jan-1918	5
Laguangigan	124.7	36.3	176.6	BELOW NORMAL	29.5	15-Jan-2022	194.4	13-Jan-2002	7
Tugayon	285.8	238.4	137.1	BELOW NORMAL	85.1	13-Jan-2022			15
Bago City	171.3	137.4	124.8	BELOW NORMAL	47.7	29-Jan-2022			11
Mariak	134.4	125.6	167.0	BELOW NORMAL	29.7	27-Jan-2022			13
Compostela	324.4	333.1	97.2	BELOW NORMAL	73.9	1-Jan-2022			14
CVJ Andron	61.0	141.9	58.5	BELOW NORMAL	37.6	15-Jan-2022			6

Red box in Table 2 indicates derived normal values.
 (no data for sky - helping the country)

Table 3. Monthly Temperature Assessment in Mindanao for January 2022.

STATION	MAXIMUM TEMPERATURE					MINIMUM TEMPERATURE				
	Highest Tmax, deg C	Date of Highest Tmax	EXTREME Highest Tmax, deg C	EXTREME Date of Highest Tmax	CLIMATOLOGICAL NORMALS, deg C (CY 1981-2010)	Lowest Tmin, deg C	Date Lowest Tmin	EXTREME Lowest Tmin, deg C	EXTREME Date Lowest Tmin	CLIMATOLOGICAL NORMALS, deg C (CY 1981-2010)
Malabon	34.0	8-Jan-2022	34.0	23-Jan-1985	29.0	15.8	20-Jan-2022	11.2	16-Jan-1938	17.9
Bulan	34.7	29-Jan-2022	35.4	16-Jan-1998	30.2	21.2	29-Jan-2022	18.3	4-Jan-1991	22.5
Sungay	32.2	26-Jan-2022	33.7	15-Jan-1916	29.4	22.1	13-Jan-2022	16.5	2-Jan-1972	23.2
Colabayo	36.6	12-Jan-2022	36.6	31-Jan-2003	32.7	23.1	3-Jan-2022	18.9	25-Jan-2014	22.9
Dapog	33.2	1-Jan-2022	35.2	28-Jan-2002	30.1	22.4	1-Jan-2022	16.4	12-Jan-1971	22.8
Davao	34.6	12-Jan-2022	35.0	15-Jan-1973 27-Jan-2016	30.8	22.4	13-Jan-2022	17.6	10-Jan-1912	23.1
Malabon	34.2	25-Jan-2022	35.2	3-Jan-2019	29.7	21.1	7-Jan-2022	17.2	2-Jan-1965	23.0
Compostela	34.6	12-Jan-2022	37.5	24-Jan-1988	32.8	23.8	15-Jan-2022	17.2	24-Jan-1963	22.5
Zamboanga	36.0	3-Jan-2022	35.8	29-Jan-2016	32.1	21.2	21-Jan-2022	15.8	22-Jan-1959	23.5
Laguangigan	32.2	30-Jan-2022	36.2	8-Jan-2016	29.1	23.0	27-Jan-2022	15.1	3-Jan-1981	22.6
Tugayon	33.4	30-Jan-2022				21.3	16-Jan-2022			
Bago City	34.2	11-Jan-2022				20.3	29-Jan-2022			
Mariak	29.2	9-Jan-2022				12.8	17-Jan-2022			
Compostela						22.4	5-Jan-2022			
CVJ Andron	33.8	30-Jan-2022				19.1	26-Jan-2022			

(no data for sky - helping the country)

Seasonal Climate Outlook for February to July 2022

Weather systems that will likely affect Mindanao during the period include *Tropical Cyclones, Low Pressure Areas (LPAs), Intertropical Convergence Zone (ITCZ), Easterlies, Northeast Monsoon, Tail-End of the Frontal System (TEFS), localized thunderstorms, and Southwest Monsoon (in transition up to mid-May).*

PAGASA monthly deterministic forecasts from computer models suggest that most areas in the region will likely to receive *near to above normal rainfall from February until March 2022 (Figure 4a), and mostly near normal rainfall from April to July 2022 (Figure 4b).* In comparison to selected international climate forecasts ^{1,2}, majority of the models suggest the likelihood of *near to above normal rainfall conditions from February to April 2022, and near normal rainfall conditions in most areas from May to July 2022, with patches of below normal rainfall during the last month of the forecast period.* These international climate forecasts also show that *near to above normal rainfall is likely for FMA and MAM seasons and near normal rainfall for AMJ and MJJ seasons.* On the other hand, official rainfall probabilistic forecasts show that there is approximately 40% to 55% chance of *above normal rainfall conditions in most areas of the region from February to April 2022, and higher probability for near normal rainfall conditions from May to July 2022.* Comparatively, most of the international climate models ³ and multi-model ensembles (MMEs) ^{4,5,6,7} show 40% to 60% probability of *above normal rainfall conditions in most areas of the region from February to April 2022.* Meanwhile, the likelihood of *near normal rainfall* is highly likely in most areas in Mindanao from *May to July 2022.* Model outputs also illustrate 40% to 50% likelihood of *below normal rainfall conditions in the Zamboanga Peninsula during the months of June and July 2022, as well as the MJJ season.*

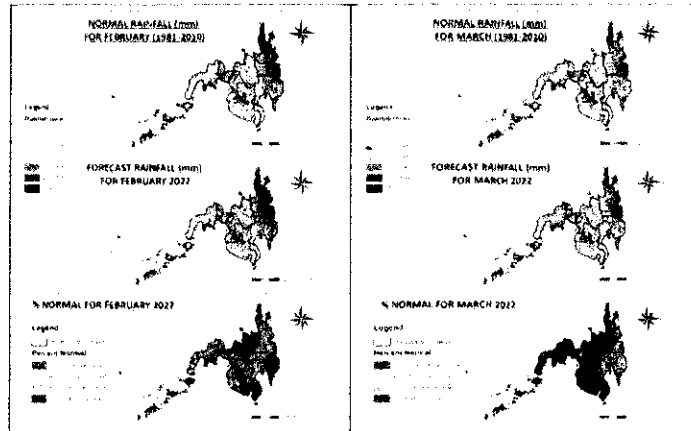


Figure 4a. Forecast Rainfall (mm and %Normal) in Mindanao for February to March 2022.

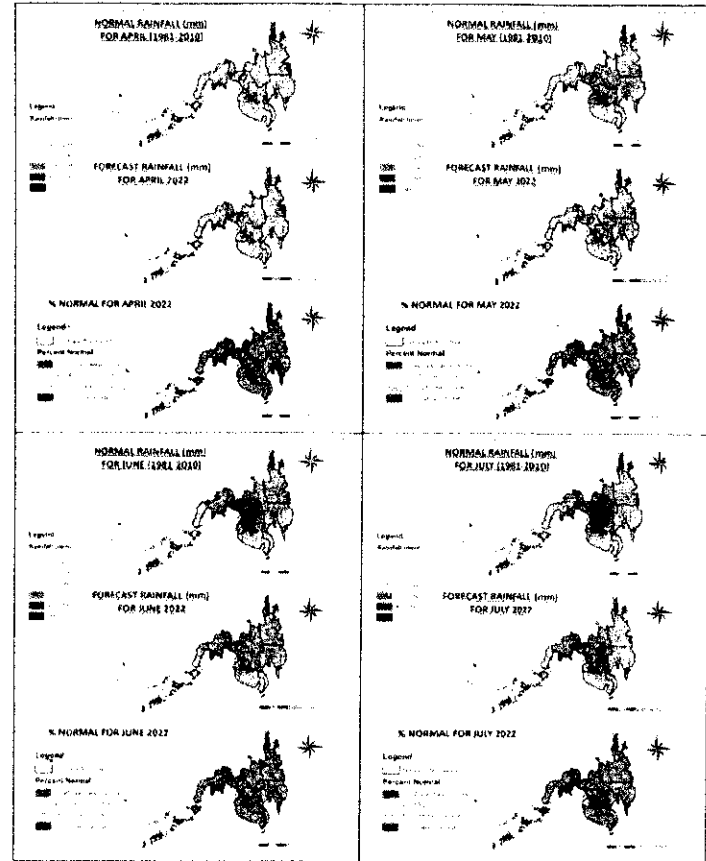
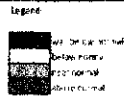


Figure 4b. Forecast Rainfall (mm and %Normal) in Mindanao for April to July 2022.

Table 4. Observed Rainfall in Percent of Normal (Aug 2021 – Jan 2022) and Forecast Rainfall in Percent of Normal (Feb 2022 – Jul 2022).

PROVINCE	OBSERVED RAINFALL (%NORMAL)					FORECAST RAINFALL (%NORMAL)						
	AUG '21	SEP '21	OCT '21	NOV '21	DEC '21	JAN '22	FEB '22	MAR '22	APR '22	MAY '22	JUN '22	JUL '22
ZAMBOANGA DEL NORTE	77.6											
ZAMBOANGA DEL SUR												
ZAMBOANGA SIBUGAY	66.6				75.4							
BUKIDNON						61.5						
CAMIGUIN												
LANAO DEL NORTE												
MISAMIS OCCIDENTAL												
MISAMIS ORIENTAL						76.7						
DAVAO DE ORO												
DAVAO CITY						66.1						
DAVAO DEL NORTE												
DAVAO DEL SUR						81.1						
DAVAO OCCIDENTAL												
DAVAO ORIENTAL						74.1						
SOUTH COTABATO												
NORTH COTABATO	77.8											
SARANGANI												
SULTAN KUDARAT	68.0					62.6						
AGUSAN DEL NORTE												
AGUSAN DEL SUR						75.3						
DINAGAT ISLANDS												
SURIGAO DEL NORTE												
SURIGAO DEL SUR												
BASILAN												
BASILAN	96.3					71.1						
MAGUINDANAO	69.3					72.7						
LANAO DEL SUR												
SULU	73.3					66.3						
TAWI-TAWI	74.5					58.6						



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Moreover, dry days¹ forecast for Mindanao is shown in Table 5. Temperature forecast on the other hand, * indicates that Mindanao will likely experience near to warmer than average surface temperatures for February to July 2022.

Table 5. Forecast Dry Days in Mindanao for February to July 2022 per province.

PROVINCE	FORECAST					
	FEB 2022	MAR 2022	APR 2022	MAY 2022	JUN 2022	JUL 2022
ZAMBOANGA DEL NORTE	20	22	23	21	15	19
ZAMBOANGA DEL SUR	20	21	22	21	14	18
ZAMBOANGA SIBUGAY	20	21	22	21	15	18
BUKIDNON	17	20	21	15	10	12
CAMIGUIN	18	24	25	24	17	18
LANAO DEL NORTE	19	23	23	20	13	15
MISAMIS OCCIDENTAL	19	23	23	21	14	17
MISAMIS ORIENTAL	18	23	24	21	15	16
COMPOSTELA VALLEY/ DAVAO DE ORO	14	18	19	18	17	18
DAVAO CITY	20	20	20	13	13	14
DAVAO DEL NORTE	17	19	20	16	14	15
DAVAO DEL SUR	21	22	21	18	15	16
DAVAO OCCIDENTAL	21	25	25	23	20	22
DAVAO ORIENTAL	14	18	19	20	19	21
SOUTH COTABATO	20	23	23	21	17	18
NORTH COTABATO	19	20	20	14	11	12
SARANGANI	20	25	25	24	16	21
SULTAN KUDARAT	20	20	22	18	14	16
AGUSAN DEL NORTE	13	17	18	21	17	19
AGUSAN DEL SUR	12	15	17	17	14	17
DINAGAT ISLANDS	8	13	18	22	17	20
SURIGAO DEL NORTE	8	12	15	21	17	21
SURIGAO DEL SUR	7	12	14	18	17	20
BASILAN	22	22	24	25	19	20
MAGUINDANAO	18	19	20	16	12	14
LANAO DEL SUR	18	21	21	17	11	11
SULU	23	22	25	26	21	23
TAWI-TAWI	24	22	23	26	21	23

¹ Dry day refers to a day with less than 1 mm of rain (being issued February - April)

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

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 public are advised to take appropriate actions concerning this current climate condition 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

- Climate Outlook (February - June 2022) during the 144th National Climate Forum by PAGASA CAD-CLIMPS on 26Jan2022
- Rainfall Forecast and % Normal Maps for Mindanao for February to July 2022 provided by PAGASA CAD-CLIMPS
- National Weather Service (NWS) Climate Prediction Center (CPC) / National Oceanic and Atmospheric Administration (NOAA)
- Seasonal climate forecast from CES2 for Feb to Oct 2022, updated 07 February 2022
- APCC Climate Center (APCC) Deterministic Multi-model Ensemble (MME) Forecasts, issued on 20 January 2022
- Climate Outlook (February - June 2022) during the 144th National Climate Forum by PAGASA CAD-CLIMPS on 26Jan2022
- UK Met Office Global long-range model probability maps for FMA 2022, MAM 2022 and AMJ 2022 issued January 2022
- APCC Climate Center (APCC) Probabilistic Multi-model Ensemble (MME) Forecasts, issued on 20 January 2022
- World Meteorological Organization (WMO) Lead Center for Long Range Forecast (LRFC) Multi-Model Ensemble (MME) for February to July 2022, issued on January 2022
- International Research Institute for Climate and Society, IRI Multi-Model Probability Forecast for Precipitation for FMA 2022, MAM 2022, AMJ 2022 and MJJ 2022 issued January 2022
- Forecast Monthly Mean Temperature Anomaly for February to July 2022, relative to 1961-2010 climatological normal, issued by PAGASA CAD-CLIMPS

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