



Republic of the Philippines
Department of Education
REGION X - NORTHERN MINDANAO
DIVISION OF MALAYBALAY CITY

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DEPED MALAYBALAY CITY DIVISION
RELEASED
DATE: FEB 21 2022
BY: [Signature]

Division MEMORANDUM

No. 085, s. 2022

TO: Assistant Schools Division Superintendent
Chief Education Supervisor, SGOD and CID
Public and Private Elementary and Secondary School Heads
School DRRM Coordinators
All Others Concerned

FROM: VICTORIA V. GAZO
Schools Division Superintendent

DATE: February 18, 2022

SUBJECT: **DISSEMINATION OF REGIONAL ADVISORY NO. 34, S. 2022 RE: LA NIÑA
ADVISORY NO. 4 FOR MINDANAO**

The field is hereby informed of the Regional Advisory No. 34, s. 2022 re: La Niña
Advisory No. 4 for Mindanao. Its content is self-explanatory.

For widest dissemination.

Encl: As stated

Copy Furnished: Records Unit | DRRM





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

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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 drmr@deped10.com. You may also contact Mindanao PAGASA Regional Services Division (MPRS) at (088) 555-0485 or Climatology and Agrometeorology Division (CAD) at 8284-0800 or e-mail at cad@pagasa.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). The 2022 season is 2022 season.

Climate Assessment for January 2022

The weather systems that affected Mindanao during the month include Inter-tropical Convergence Zone (ITCZ), Low Pressure Area (LPA), Trough of LPA, Shear Line, Northeast Monsoon Zone (NEMZ), and localized thunderstorms. No tropical cyclone (TC) entered the Philippine Area of Responsibility (PAR) during the month. In total, MRRSD 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 MRRSD Local Weather Forecasting Section for January 2022.

WEATHER SYSTEM		Yellow	Orange	Red
Shear Line	4	0	0	0
Northeast Monsoon	3	2	0	0
Trough of Low Pressure Area / Wind Convergence	4	0	0	0
Low Pressure Area	5	2	0	0
TOTAL	16	2	0	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 occurred an actual rainfall amount (i.e., 557.5mm) near its climatological normal value (i.e., 608.4mm) 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, Marikina and Zamboanga stations exceeded their previous climatological extremes in terms of maximum temperature (Table 3).



Figure 1. (a) Flooded community in Marawi, Davao del Norte on 16 January 2022 due to the Shear Line. (b) Fallen trees in Sanio Tomas, Davao del Norte on 17 January 2022 caused by heavy rain brought by the Shear Line.

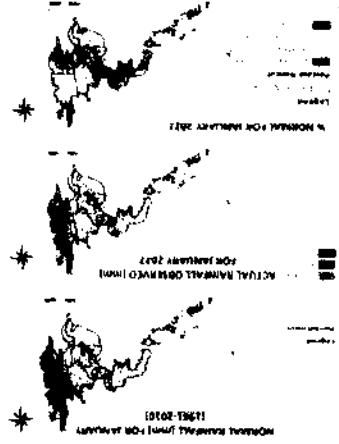


Figure 2. Actual Rainfall Observed (mm) and Normal, in Mindanao for January 2022.

News: Jamn Inay Evangelista of BULGAR Online / Photo: MDRRMO Marawi, Davao del Norte
 NewsPhoto: Office Facebook Account of the Municipal Government of Sanio Tomas, Davao del Norte

National Weather Service - Bureau of Meteorology

Manila, PAGASA Regional Services Division (MRRSD)

Manila, PAGASA Regional Services Division (MRRSD)

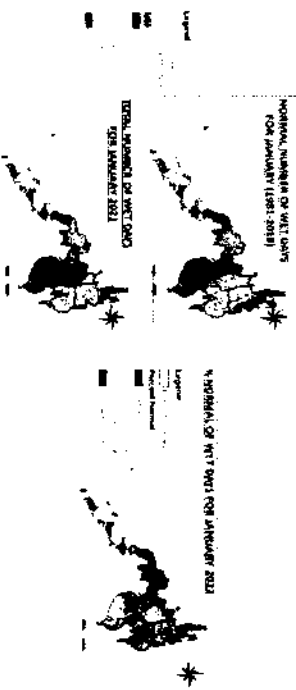


Figure 3. Actual Number of Visit Days (from and Normal) in Mindanao for January 2022.

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

STATION	Total Monthly No. visit	Normal Monthly No. visit	Government (Infrastructure) Construction	Quarantine (Self No. visit)	General (Self No. visit)	Date of Standard Body No. visit	OTSM (Self No. visit)	Date of Standard Body No. visit	No. of visit days
Malibyam	60	142	42	100	24	15-Jan-2022	10	15-Jan-2022	1
Butuan	227	318	71	100	80	16-Jan-2022	27	16-Jan-2022	19
Sarangani	525	698	93	100	28	17-Jan-2022	35	17-Jan-2022	2
Codubo	397	64	67	600	10	21-Jan-2022	51	21-Jan-2022	8
Davao	65	125	3	100	5	11-Jan-2022	20	11-Jan-2022	16
Uman	93	148	54	100	40	11-Jan-2022	12	18-Jan-2022	2
Malinao	11	76	67	100	30	21-Jan-2022	3	10-Jan-2022	2
Paritong	17	37	4	100	14	25-Jan-2022	12	23-Jan-2022	3
Liguayan	27	38	2	100	9	19-Jan-2022	10	19-Jan-2022	3
Malinao	26	28	1	100	8	13-Jan-2022	11	13-Jan-2022	15
Malinao	21	17	2	100	17	23-Jan-2022	11	23-Jan-2022	1
Malinao	24	28	2	100	19	27-Jan-2022	14	27-Jan-2022	1
Malinao	24	33	5	100	14	14-Jan-2022	14	14-Jan-2022	1
Malinao	31	35	4	100	19	19-Jan-2022	14	19-Jan-2022	4

Note: In Table 2 indicate derived normal values.

Malinao, 11-Jan-2022

Malinao, 11-Jan-2022

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

STATION	Report from Dept.	Date of Report	ACTUAL TEMPERATURE		NORMAL TEMPERATURE	
			Report Temp. (deg C)	OTSM Temp. (deg C)	Report Temp. (deg C)	OTSM Temp. (deg C)
Malibyam	34	15-Jan-2022	30	30	30	30
Butuan	37	16-Jan-2022	31	31	31	31
Sarangani	32	17-Jan-2022	31	31	31	31
Codubo	34	21-Jan-2022	33	33	33	33
Davao	33	11-Jan-2022	31	31	31	31
Uman	34	11-Jan-2022	33	33	33	33
Malinao	32	17-Jan-2022	31	31	31	31
Paritong	34	17-Jan-2022	33	33	33	33
Liguayan	34	19-Jan-2022	33	33	33	33
Malinao	34	13-Jan-2022	33	33	33	33
Malinao	34	23-Jan-2022	33	33	33	33
Malinao	34	27-Jan-2022	33	33	33	33
Malinao	34	14-Jan-2022	33	33	33	33
Malinao	34	19-Jan-2022	33	33	33	33

Malinao, 11-Jan-2022

Malinao, 11-Jan-2022



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 Administration (PAGASA)
 Mindanao PAGASA Regional Services Division (MRPSD)

Seasonal Climate Outlook for February to July 2022

Weather systems that will likely affect Mindanao during the period include Tropical Cyclones, Low Pressure Areas (LPA), 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, 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 MAMJ 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' and multi-model ensembles (MMEs) show 40% to 80% 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.

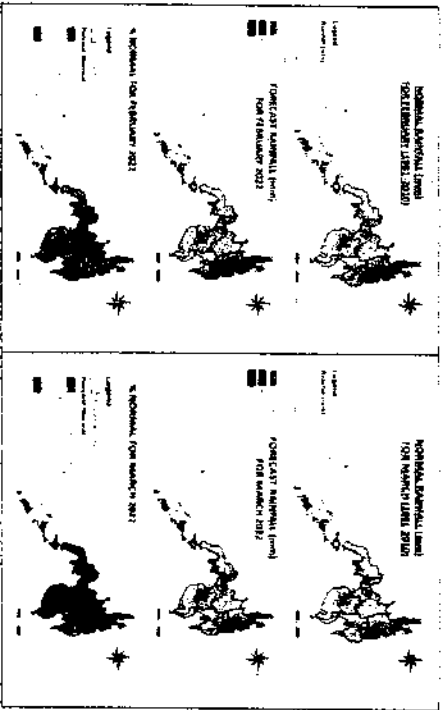


Figure 4a. Forecast Rainfall (mm) and (Shaded) in Mindanao for February to March 2022.

Map Date: 15 October 2021
 Map Scale: 1:100,000
 Map Projection: UTM
 Map Datum: WGS 84
 Map Contour: 100m



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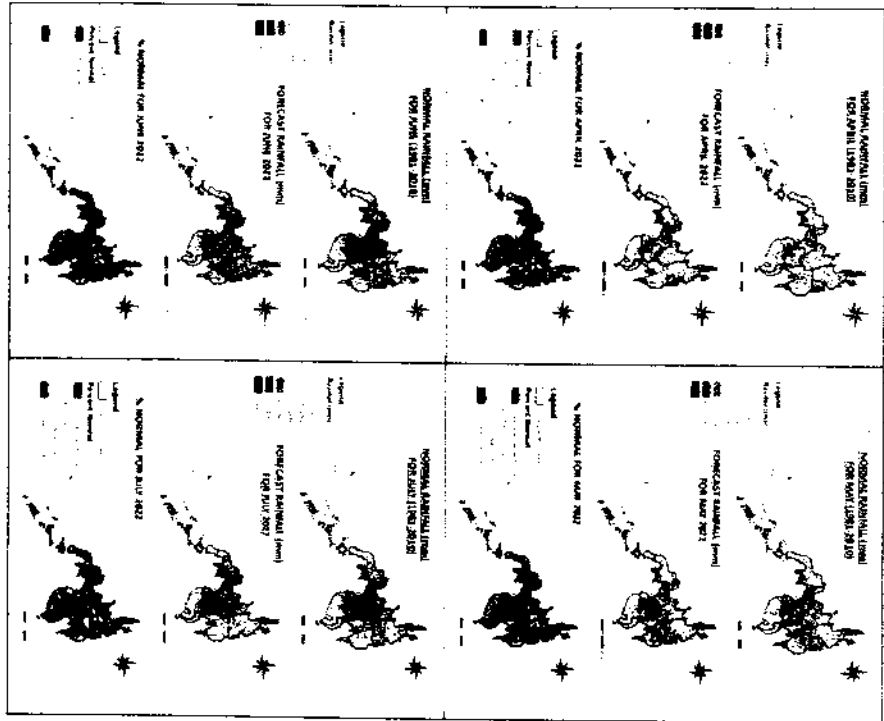


Figure 4b. Forecast Rainfall (mm) and (Shaded) in Mindanao for April to July 2022.

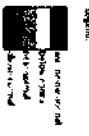
Map Date: 15 October 2021
 Map Scale: 1:100,000
 Map Projection: UTM
 Map Datum: WGS 84
 Map Contour: 100m



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Table 4. Observed Rainfall as Percent of Normal (Aug 2021 – Jun 2022) and Forecast Rainfall (Monthly)
 For areas Rainfall in Percent of Normal (F on 2022 – Jul 2022).

Province	OBSERVED RAINFALL (PERCENTUAL)						FORECAST RAINFALL (PERCENTUAL)					
	AUG 21	SEP 21	OCT 21	NOV 21	DEC 21	JAN 22	FEB 22	MAR 22	APR 22	MAY 22	JUN 22	JUL 22
ZAMBANGA DEL NORTE	77.8											
ZAMBANGA DEL SUR		65.6										
DARAOANG SIBUDAY						75.4						
DARAOANG SIBUDAY												61.8
BUKIDNON												
Compostela												
DAVAO DEL NORTE												
MAHANG OCCIDENTAL												74.2
MAHANG ORIENTAL												
DAVAO DEL ORO												
COMPOSTELA												
DAVAO DEL NORTE												
DAVAO DEL SUR												
DAVAO OCCIDENTAL												
DAVAO ORIENTAL												
SOUTH COTABATO												
NORTH COTABATO												
AGUIGAL DEL SUR	77.8					61.8						
AGUIGAL DEL NORTE	68.0					62.1						
AGUIGAL DEL SUR												
AGUIGAL DEL NORTE												
AGUIGAL DEL SUR												
AGUIGAL DEL NORTE												
AGUIGAL DEL SUR												
AGUIGAL DEL SUR	94.1					82.8						
AGUIGAL DEL SUR	42.1					55.1						
AGUIGAL DEL SUR	21.1					61.1						
AGUIGAL DEL SUR	74.8					61.1						



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 Philippine Atmospheric, Geophysical and Astronomical Services
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 Mindanao PAGASA Regional Services Division (MARSUD)

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

Province	MINDANAO				
	FEB 2022	MAR 2022	APR 2022	MAY 2022	JUN 2022
ZAMBANGA DEL NORTE	20	22	23	21	15
ZAMBANGA DEL SUR	20	21	22	21	14
DARAOANG SIBUDAY	20	21	22	21	15
BUKIDNON	17	20	21	21	12
CAROLINA	18	24	25	24	12
DAVAO DEL NORTE	19	23	23	20	13
MAHANG OCCIDENTAL	18	21	21	21	14
MAHANG ORIENTAL	18	23	24	21	15
COMPOSTELA	14	18	19	19	14
DAVAO DEL NORTE	20	20	20	13	14
DAVAO DEL SUR	17	19	20	19	14
DAVAO OCCIDENTAL	21	22	21	16	15
DAVAO ORIENTAL	21	22	23	19	14
DAVAO DEL SUR	14	19	19	20	14
SOUTH COTABATO	20	23	23	21	17
NORTH COTABATO	20	23	23	24	18
AGUIGAL DEL SUR	20	23	22	16	14
AGUIGAL DEL NORTE	13	17	14	17	16
AGUIGAL DEL SUR	12	15	17	17	17
AGUIGAL DEL NORTE	8	13	16	22	14
AGUIGAL DEL SUR	8	12	15	21	17
AGUIGAL DEL SUR	7	12	14	18	17
AGUIGAL DEL SUR	22	22	24	25	20
AGUIGAL DEL SUR	19	19	20	16	14
AGUIGAL DEL SUR	18	21	21	17	15
AGUIGAL DEL SUR	23	22	23	26	23
AGUIGAL DEL SUR	24	22	21	20	21

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DEPARTMENT OF SCIENCE AND TECHNOLOGY
Philippine Atmospheric, Geophysical and Astronomical Services
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 Mindanao PAGASA Regional Service Division (MRRSD)

With this development, MRRSD will continue to closely monitor the ongoing La Niña, which could influence development of extreme weather conditions that can adversely affect Mindanao islands. Localities 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 Service Division (MRRSD) at (088) 555-0485 or the Climatology and Agrometeorology Division (CAD) at (02) 8284-0900 local 906.

(Signature)

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

- Climate Outlook (February - June 2022) during the 13th National Climate Forum by PAGASA (AD-CAD) on 26Jan 2022
- National Forecast and National Alert for Mindanao for February to July 2022 provided by PAGASA (AD-CAD)
- National Weather Service (NWS) Climate Prediction Center (CPC) / National Oceanic and Atmospheric Administration (NOAA) Seasonal climate forecast from (Feb to Oct 2022) updated on 7 February 2022.
- APEC Climate Center (ACC) Deterministic Multi-model Ensemble (DMME) Forecasts, issued on 20 January 2022
- Climate Outlook (February - June 2022) during the 14th National Climate Forum by PAGASA (AD-CAD) on 26Jan 2022
- UK Met Office Global long-range model probability maps for FMA 2022, MAM 2022 and JAM 2022 issued January 2022
- CPC Climate Center (CPC) Probabilistic Multi-model Ensemble (PMME) Forecasts, issued on 20 January 2022
- World Meteorological Organization (WMO) Level 1 Level 2 Level 3 Level 4 Level 5 Level 6 Level 7 Level 8 Level 9 Level 10 Level 11 Level 12 Level 13 Level 14 Level 15 Level 16 Level 17 Level 18 Level 19 Level 20 Level 21 Level 22 Level 23 Level 24 Level 25 Level 26 Level 27 Level 28 Level 29 Level 30 Level 31 Level 32 Level 33 Level 34 Level 35 Level 36 Level 37 Level 38 Level 39 Level 40 Level 41 Level 42 Level 43 Level 44 Level 45 Level 46 Level 47 Level 48 Level 49 Level 50 Level 51 Level 52 Level 53 Level 54 Level 55 Level 56 Level 57 Level 58 Level 59 Level 60 Level 61 Level 62 Level 63 Level 64 Level 65 Level 66 Level 67 Level 68 Level 69 Level 70 Level 71 Level 72 Level 73 Level 74 Level 75 Level 76 Level 77 Level 78 Level 79 Level 80 Level 81 Level 82 Level 83 Level 84 Level 85 Level 86 Level 87 Level 88 Level 89 Level 90 Level 91 Level 92 Level 93 Level 94 Level 95 Level 96 Level 97 Level 98 Level 99 Level 100
- International Research Institute for Climate and Society (IRI) Multi Model Probability Forecasts for Preparation for FMA 2022, JAM 2022, MAM 2022 and JAM 2022, issued January 2022
- Forecast Month Mean Temperature Above 40°C for February to July 2022, relative to 1981-2010 climatological normal, issued by PAGASA (AD-CAD)

Issued on 26 January 2022
 Mindanao PAGASA Regional Service Division

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