



171st CLIMATE FORUM

CLIMATE OUTLOOK

MAY – OCTOBER 2024

Prepared by:

PAGASA-DOST

Climatology & Agrometeorology Division (CAD)

Climate Monitoring and Prediction Section (CLIMPS)

Presented by:

RUSY G. ABASTILLAS

Senior Weather Specialist

OIC, CLIMPS/CAD



VIA ZOOM, YOUTUBE AND FACEBOOK

APRIL 24, 2024

9:00 AM TO 12:00 PM



CONTENT



01 ▶ **ENSO Update**

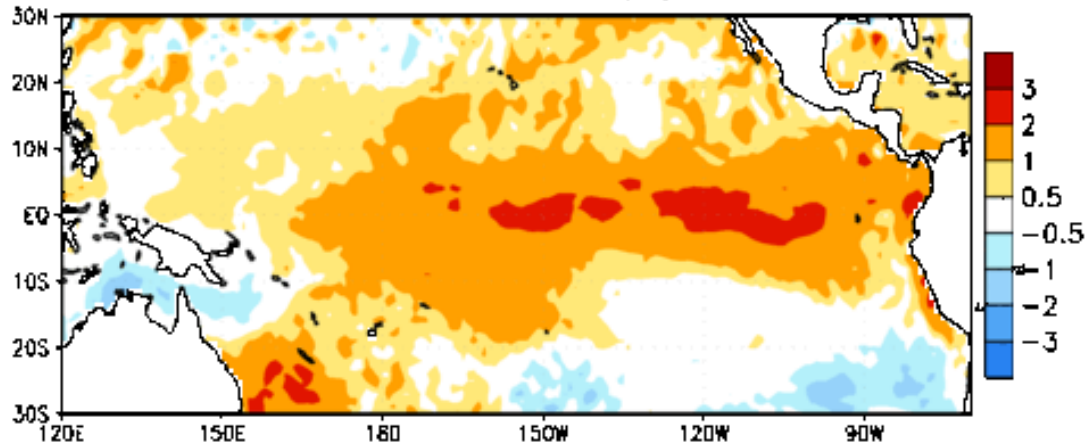
02 ▶ **Climate Outlook**
(MAY – OCTOBER 2024)

03 ▶ **Summary**

Conditions in the Tropical Pacific

Oceanic Indicator

Week centered on 31 JAN 2024
SST Anomalies (°C)



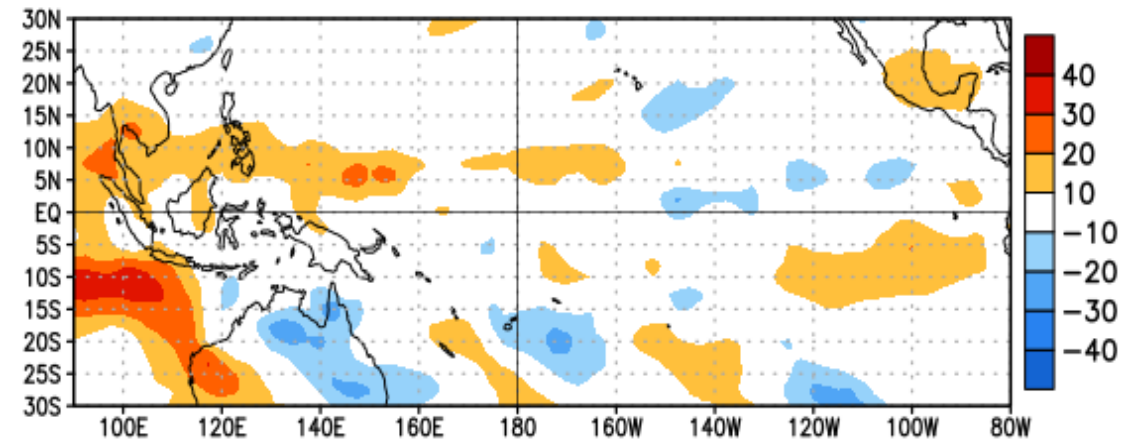
Weekly sea surface temperature (SST) anomalies for the past twelve weeks

- During March and April, the eastern and far- eastern tropical Pacific started to establish cooler than normal SSTs, which showed signs of weakening.

SST analysis is the optimum interpolation (OI) analysis, while anomalies are departures from the adjusted OI climatology (Reynolds and Smith 1995, J. Climate, 8, 1571-1583).

Atmospheric Indicator

OLR Anomalies
26 MAR 2024 to 20 APR 2024

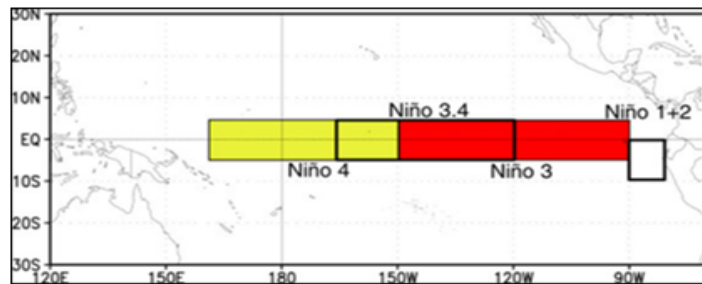


- OLR was near average across most of the equatorial Pacific, and slightly above average (suppressed convection and precipitation) around the Philippines and Malaysia.

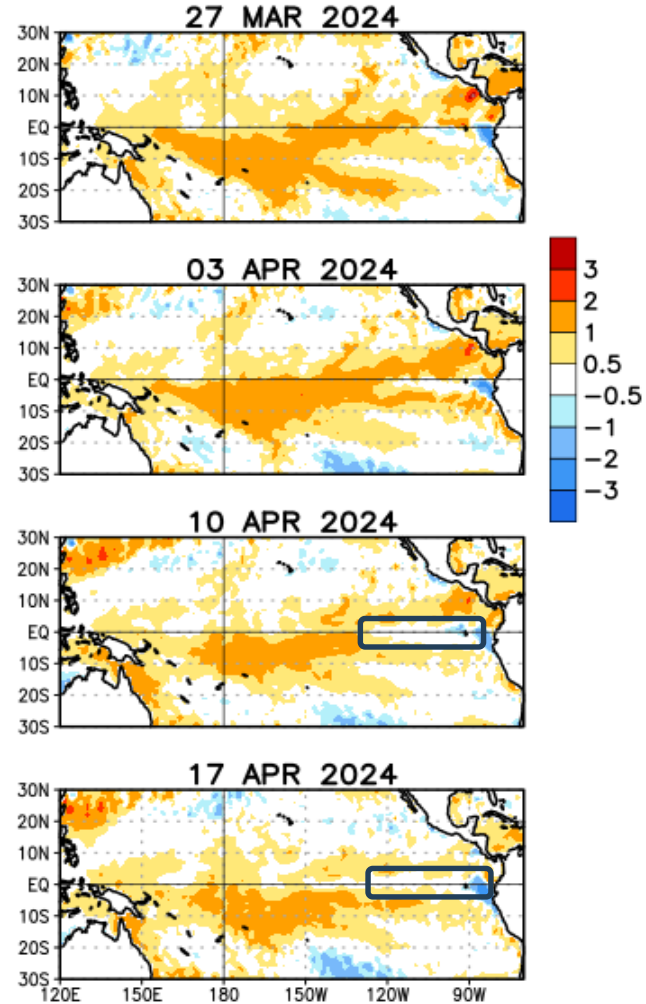
Niño Region SST Departures (°C) Recent Evolution

The latest weekly SST departures are:

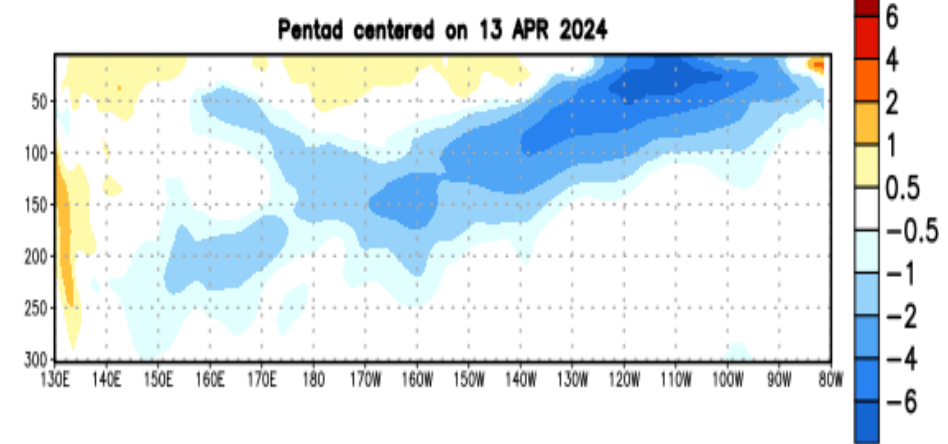
Niño 4	0.8°C
Niño 3.4	0.7°C
Niño 3	0.5°C
Niño 1+2	-0.6°C



Weekly SST Anomalies (DEG C)



EQ. Subsurface Temperature Anomalies (deg C)



Most recent pentad analysis

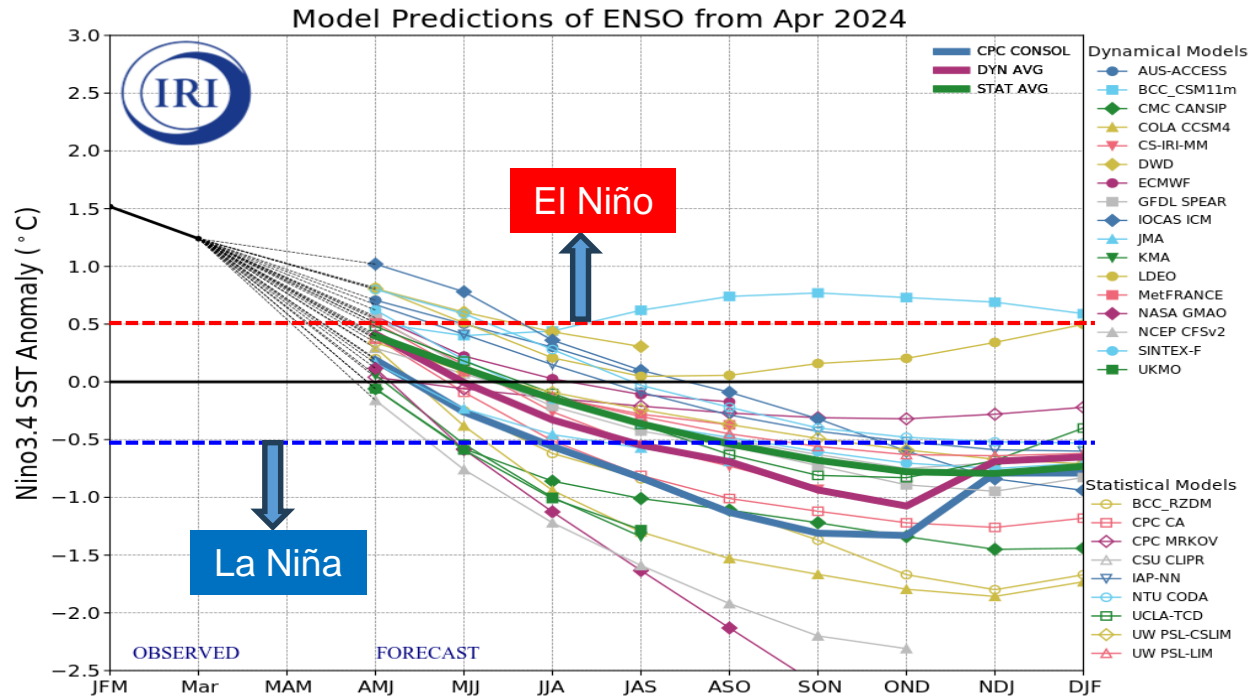
- Over the last couple months, negative subsurface temperature anomalies have strengthened across the equatorial Pacific Ocean.
- Below-average temperatures reached the surface in the eastern Pacific Ocean (near 130°-90°W).

- During the last 4 weeks, above-average SSTs weakened across most of the equatorial Pacific Ocean.
- Below-average SSTs have persisted in the eastern Pacific Ocean.

ENSO Update

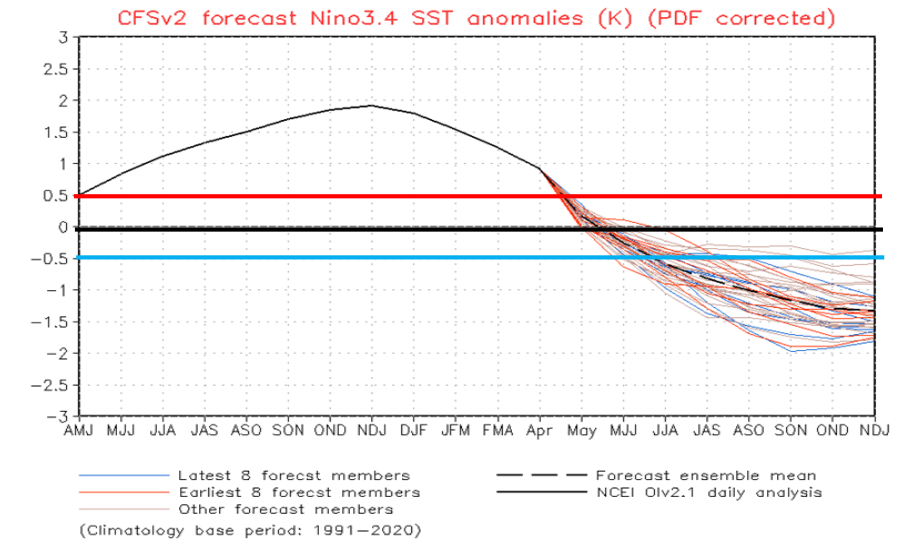
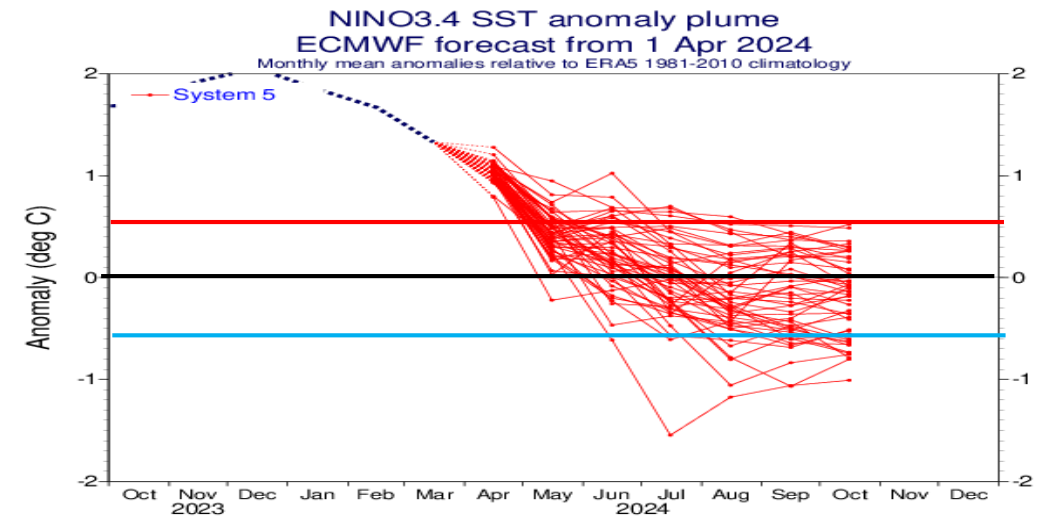
as of 22 April 2024

until when?



- The majority of models indicate a transition to ENSO-neutral during April-June 2024.
- After a brief period of ENSO-neutral conditions, most models indicate a transition to La Niña around July-September 2024.

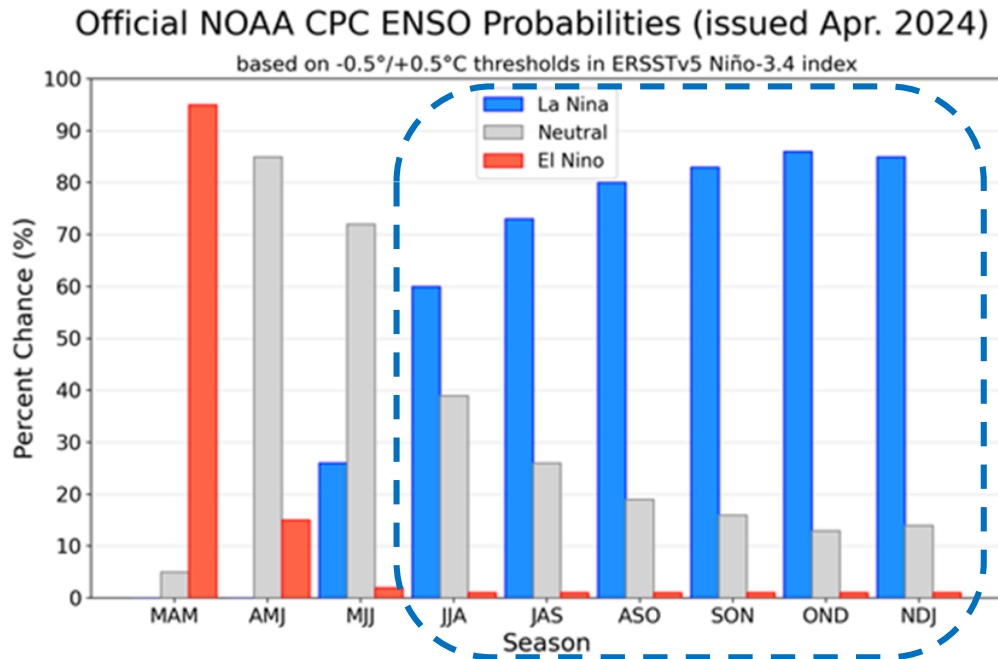
Global Model Forecast Guidance



The CFS.v2 ensemble mean (black dashed line) indicates El Niño may transition to ENSO-neutral in May, followed by a transition to La Niña around June-August 2024.

What are the chances?

ENSO STRENGTHS (12 APRIL 2024)



Target Season	LA NIÑA				EL NIÑO			
	$\leq -2.0^{\circ}\text{C}$	$\leq -1.5^{\circ}\text{C}$	$\leq -1.0^{\circ}\text{C}$	$\leq -0.5^{\circ}\text{C}$	$\geq 0.5^{\circ}\text{C}$	$\geq 1.0^{\circ}\text{C}$	$\geq 1.5^{\circ}\text{C}$	$\geq 2.0^{\circ}\text{C}$
	VERY STRONG	STRONG	MODERATE	WEAK	WEAK	MODERATE	STRONG	VERY STRONG
MAM	~0	~0	~0	~0	95	5	~0	~0
AMJ	~0	~0	~0	~0	15	~0	~0	~0
MJJ	~0	~0	2	26	2	~0	~0	~0
JJA	~0	2	19	60	1	~0	~0	~0
JAS	2	11	38	73	1	~0	~0	~0
ASO	6	22	51	80	1	~0	~0	~0
SON	10	30	59	83	1	~0	~0	~0
OND	16	38	65	86	1	~0	~0	~0
NDJ	17	39	65	85	1	~0	~0	~0

Model output + Expert judgment
ENSO probability forecast

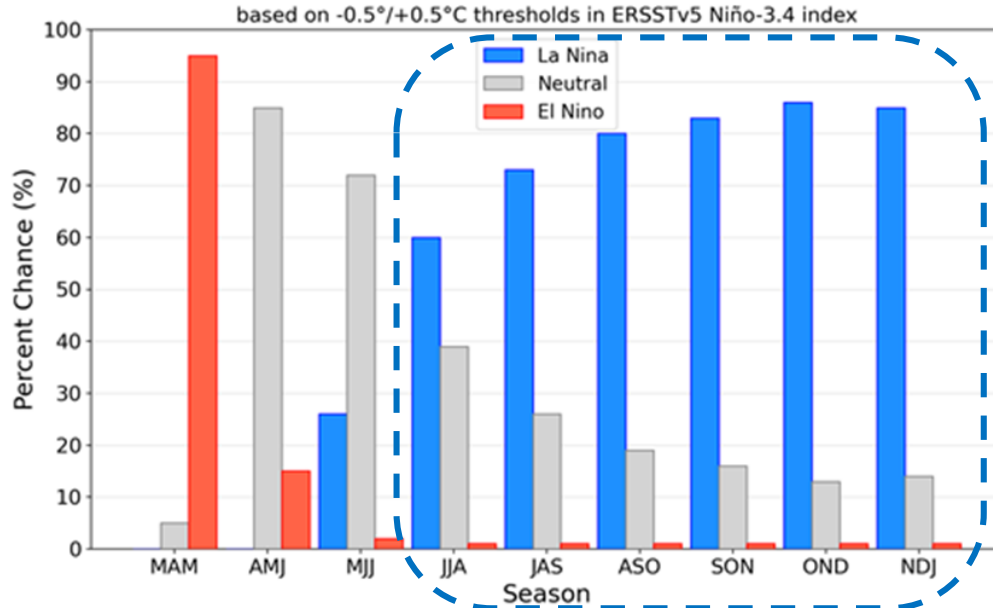
- El Niño (red bar) is expected to continue until March-May (MAM) season (95% chance).
- A transition to ENSO-neutral is anticipated by April-June (AMJ) – May-July (MJJ) 2024 season;
- Increasing odds of La Niña (blue bar) developing in June-August (JJA) 2024 (60% chance).

Table showing the probabilities (%) for the strength of ENSO (El Niño or La Niña) in the coming seasons:

- 95% probability for a weak El Niño during the Mar-Apr-May (MAM) season;
- ENSO-neutral expected in AMJ - MJJ season;
- Transition to a weak La Niña in JJA-JAS (60-73% chance) season;
- Weak to moderate La Niña likely from ASO 2024 – NDJ 2024-2025 season.

What are the chances?

Official NOAA CPC ENSO Probabilities (issued Apr. 2024)

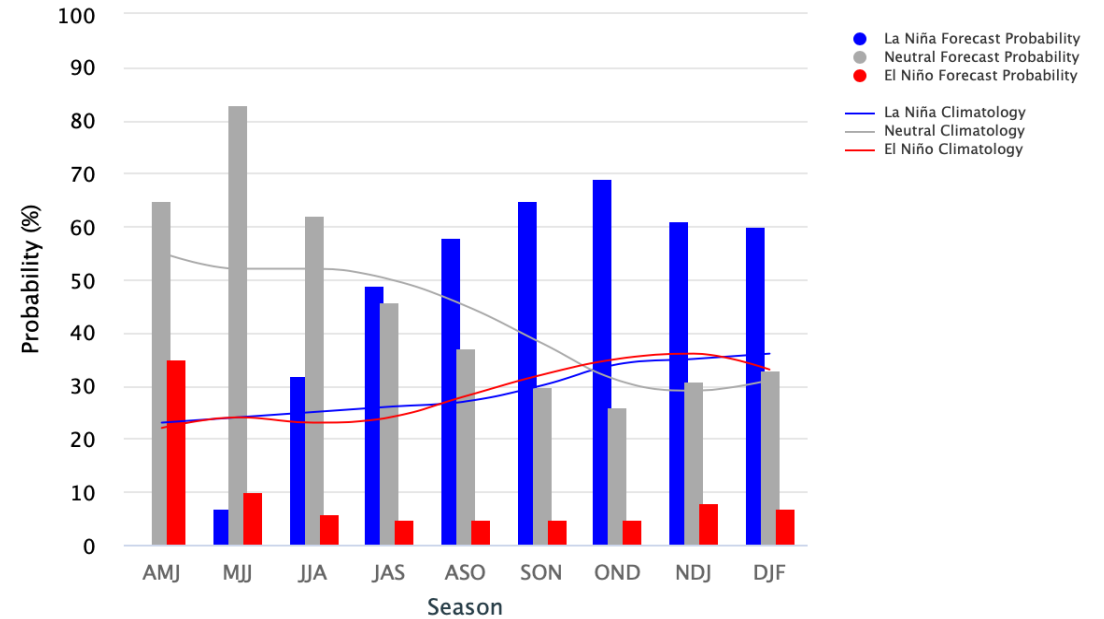


Model output + Expert judgment
ENSO probability forecast

- El Niño (red bar) is expected to continue until March-May (MAM) season (95% chance).
- A transition to ENSO-neutral is anticipated by April-June (AMJ) – May-July (MJJ) 2024 season;
- Increasing odds of La Niña (blue bar) developing in June-August (JJA) 2024 (60% chance).

Mid-April 2024 IRI Model-Based Probabilistic ENSO Forecasts

ENSO state based on Niño3.4 SST Anomaly Neutral ENSO: -0.5°C to 0.5°C



Model output (Purely objective)
ENSO probability forecast

Season	La Niña	Neutral	El Niño
AMJ	0	65	35
MJJ	7	83	10
JJA	32	62	6
JAS	49	46	5
ASO	58	37	5
SON	65	30	5
OND	69	26	5
NDJ	61	31	8
DJF	60	33	7



ENSO Alert System Status:

EL NIÑO ADVISORY / LA NIÑA WATCH



- El Niño in the tropical Pacific continues to weaken but impacts (hotter and drier conditions) continue;
- A transition from El Niño to ENSO-neutral is expected in April-May-June (AMJ) 2024 season (85% chance);
- Probability of La Nina (60% chance) in June-July-August (JJA) 2024 season.

Updated: 24 April 2024

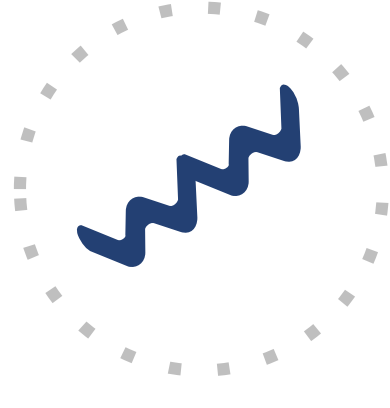
- Pre-developing La Niña historically, is characterized by below normal rainfall, therefore, the possibility of a slight delay on the onset of rainy season is likely with the combined effects of the ongoing El Niño.

Weather systems that may affect the country

MAY – OCTOBER 2024



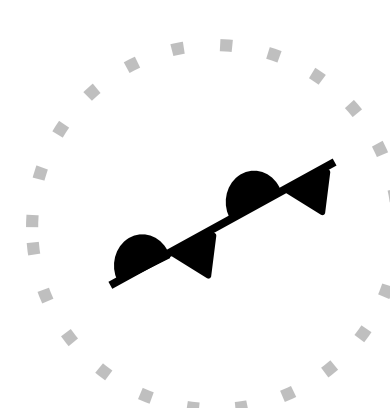
EASTERLIES



RIDGE OF HIGH
PRESSURE AREA
(HPA)



LOCALIZED
THUNDERSTORMS



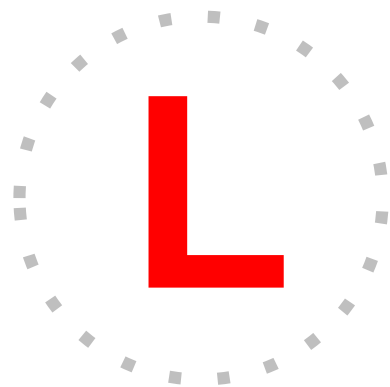
FRONTAL
SYSTEM



SOUTHWEST
MONSOON



INTERTROPICAL
CONVERGENCE ZONE
(ITCZ)



LOW PRESSURE AREA
(LPA)



TROPICAL CYCLONES
(TCs)

RAINFALL OUTLOOK

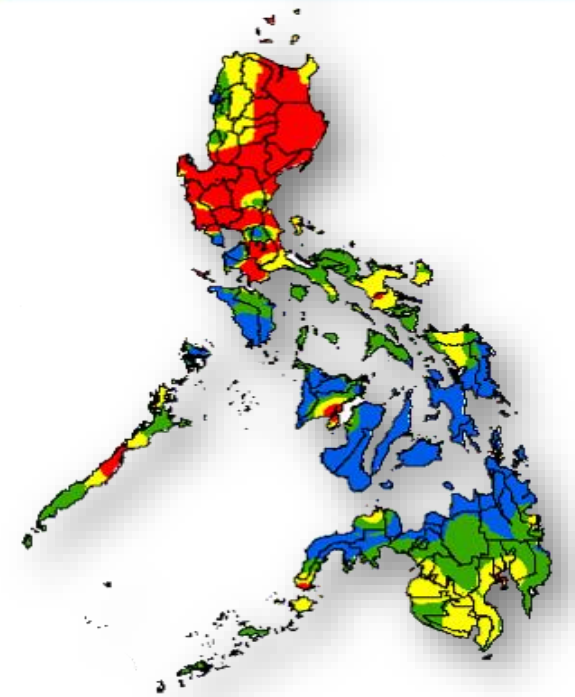
MAY – OCTOBER 2024

ABOUT OUR RAINFALL MAPS



For more details and updates

PERCENTAGE (%)	RAINFALL CONDITION
Less than or = 40	way below normal
41 - 80	below normal
81 - 120	near normal
Greater than 120	above normal



$$\text{Percent of Normal} = \frac{\text{Forecast Rainfall}}{\text{Normal Rainfall}} \times 100\%$$

Rainfall Surplus or Reduction



to



to



WAY BELOW NORMAL

Greater than 60% reduction from the normal*

BELOW NORMAL

20%-60% reduction from the normal

NEAR NORMAL

+20% or -20% from the normal

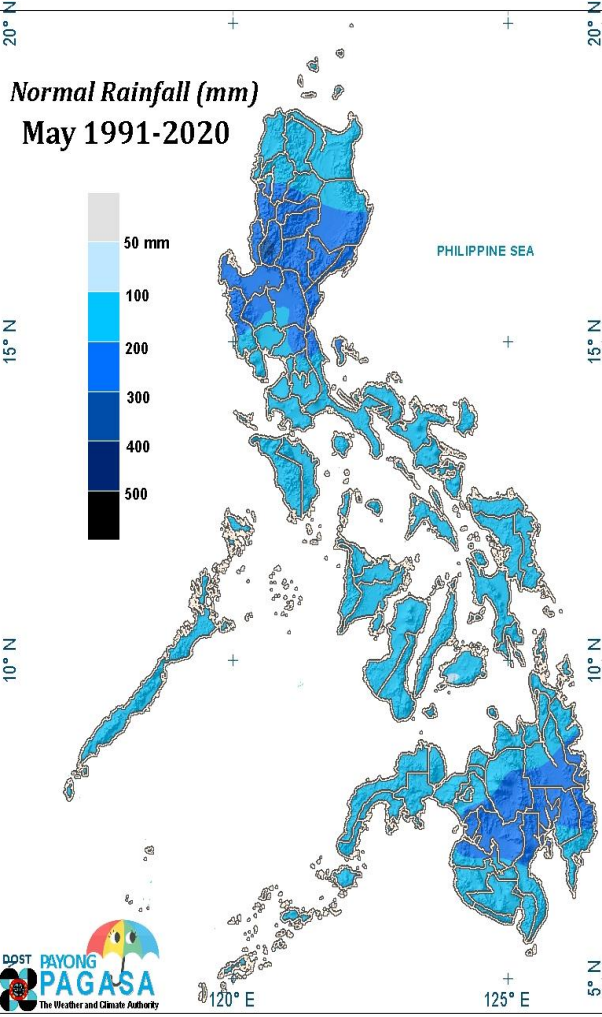
ABOVE NORMAL

120% greater than the normal

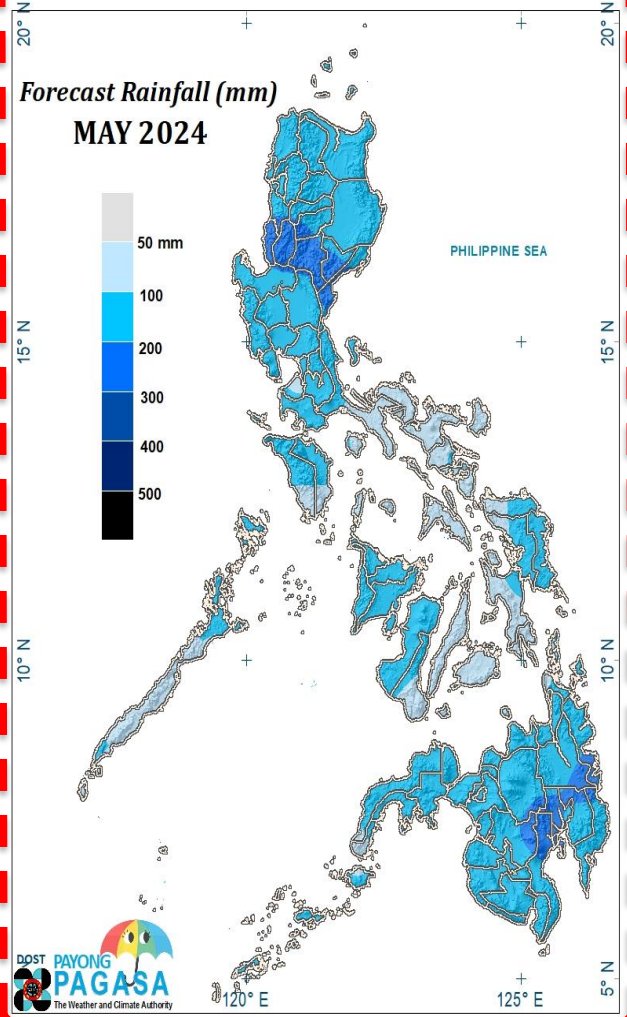
*Normal - Refers to 30-year average rainfall

MONTHLY RAINFALL FORECAST

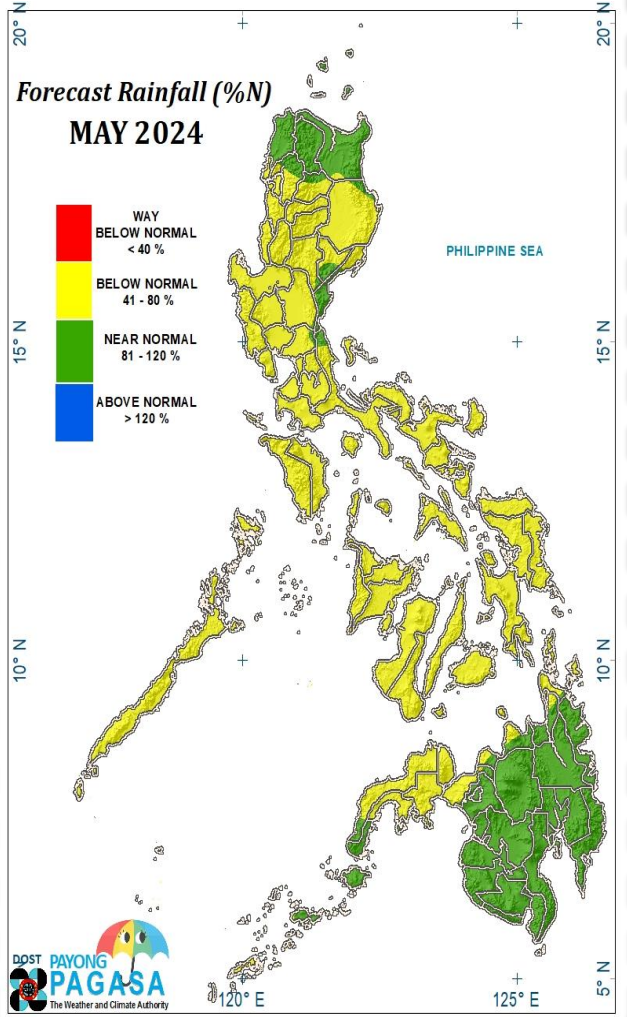
Normal Rainfall



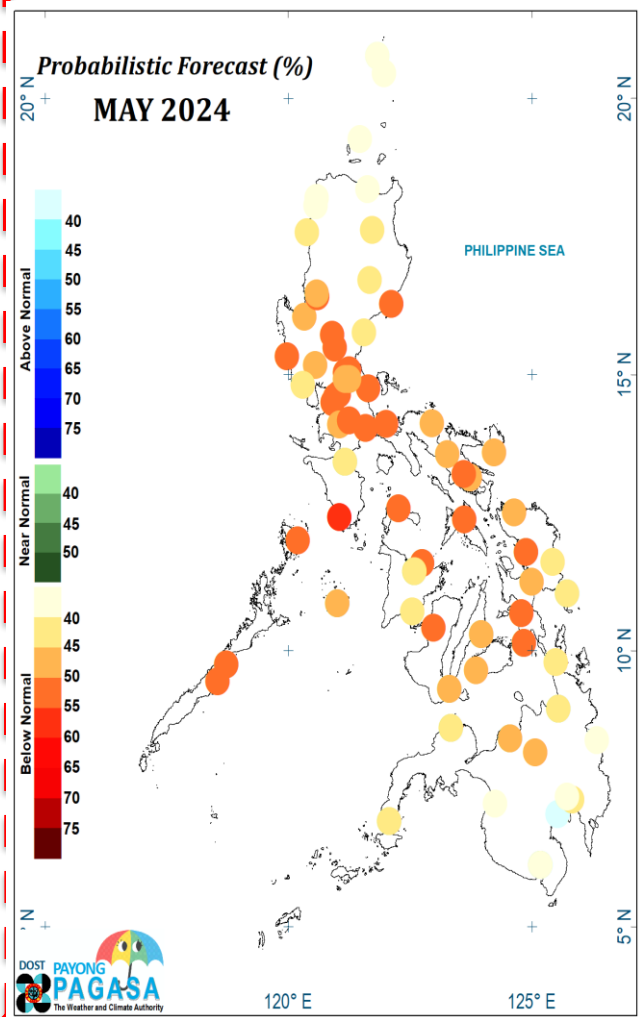
Forecast Rainfall



Percent of Normal



Probabilistic Forecast



way below normal	below normal	near normal	above normal
0	63	21	0

MONTHLY RAINFALL FORECAST

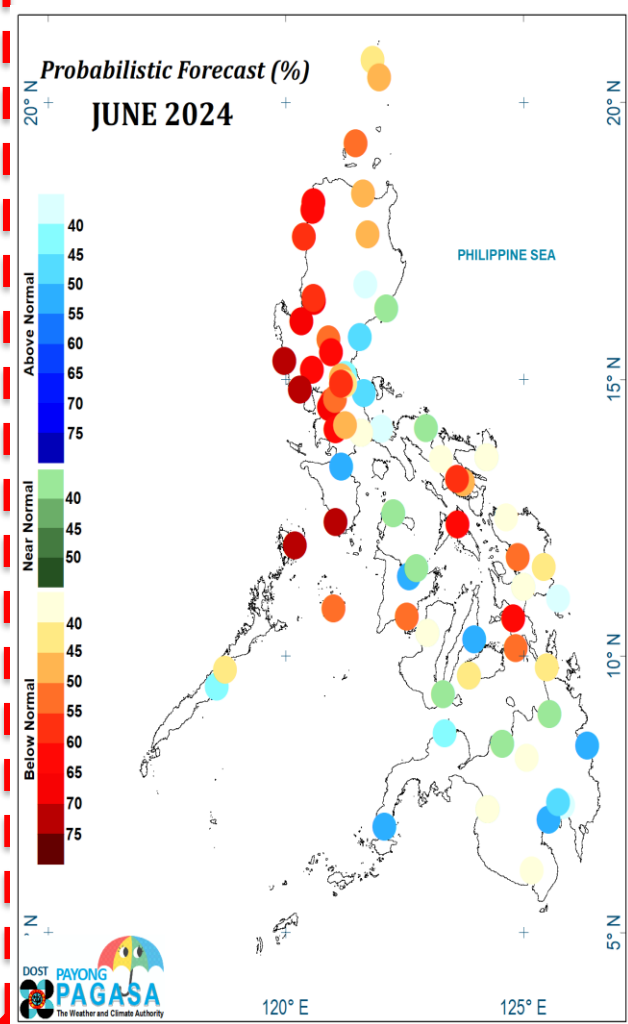
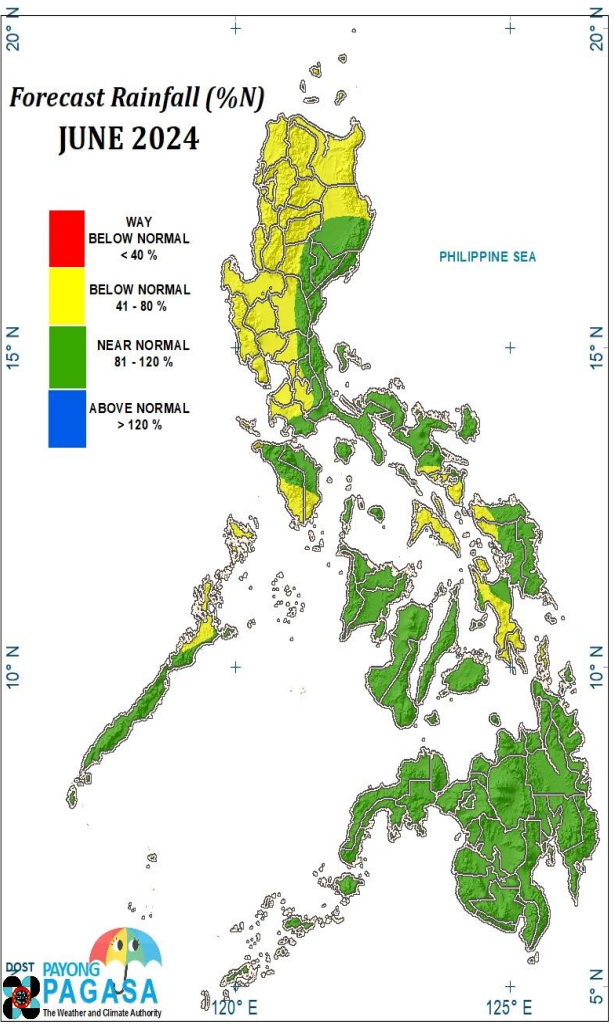
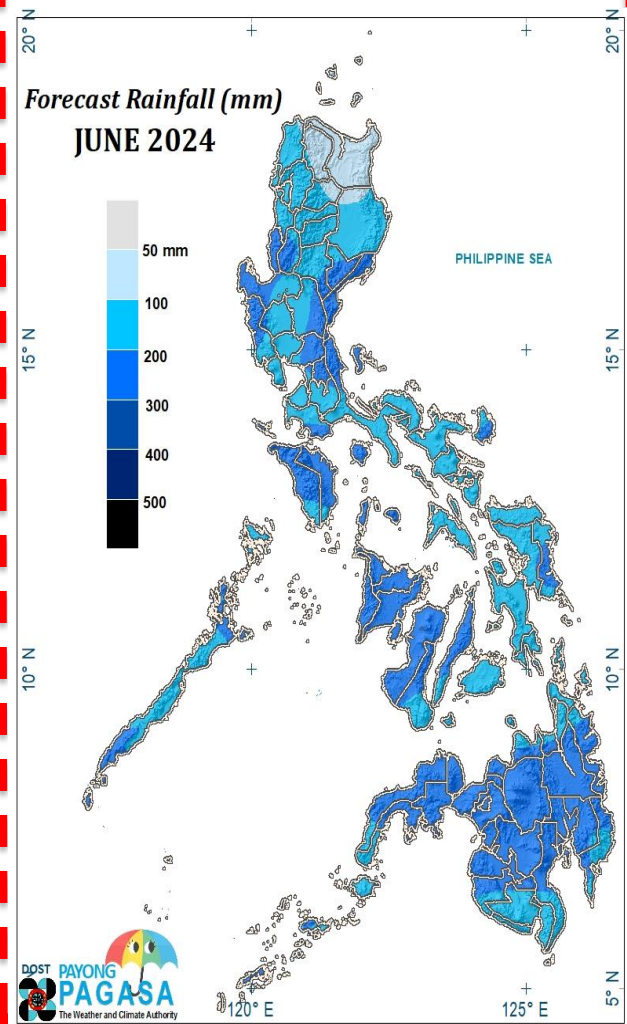
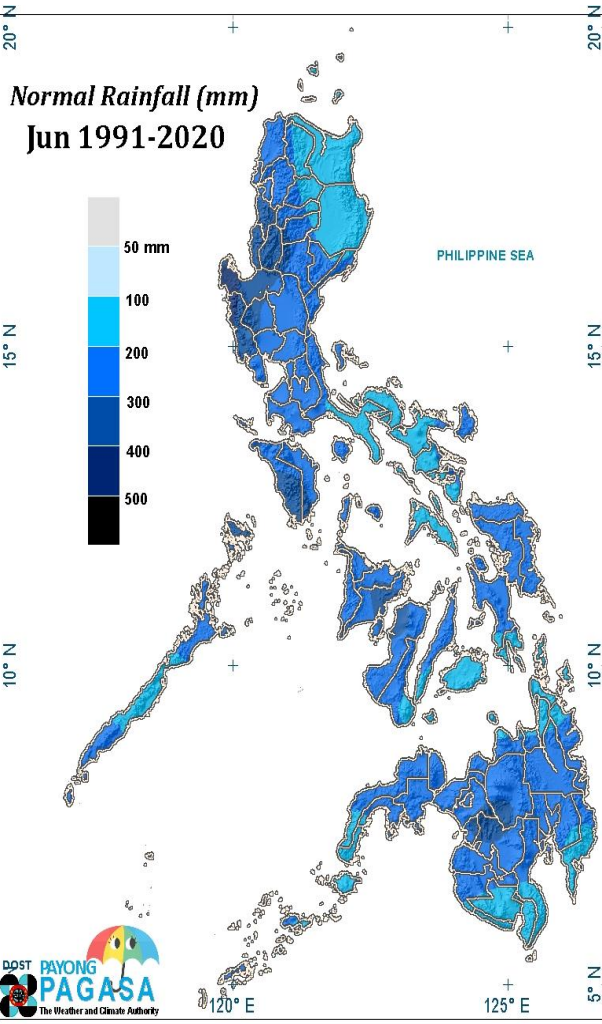
JUNE 2024

Normal Rainfall

Forecast Rainfall

Percent of Normal

Probabilistic Forecast



way below normal	below normal	near normal	above normal
0	31	53	0

MONTHLY RAINFALL FORECAST

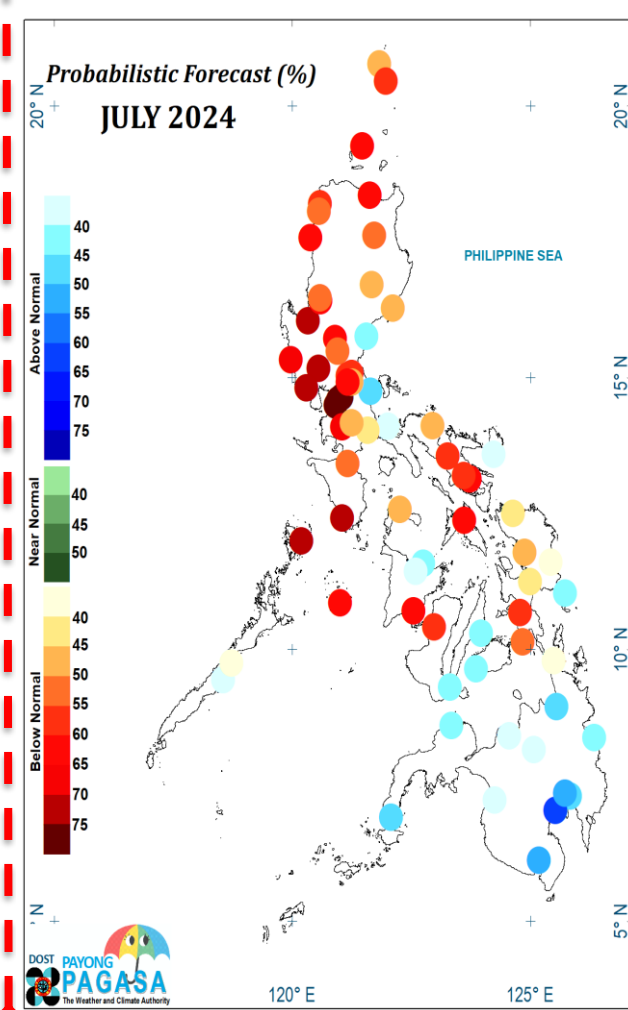
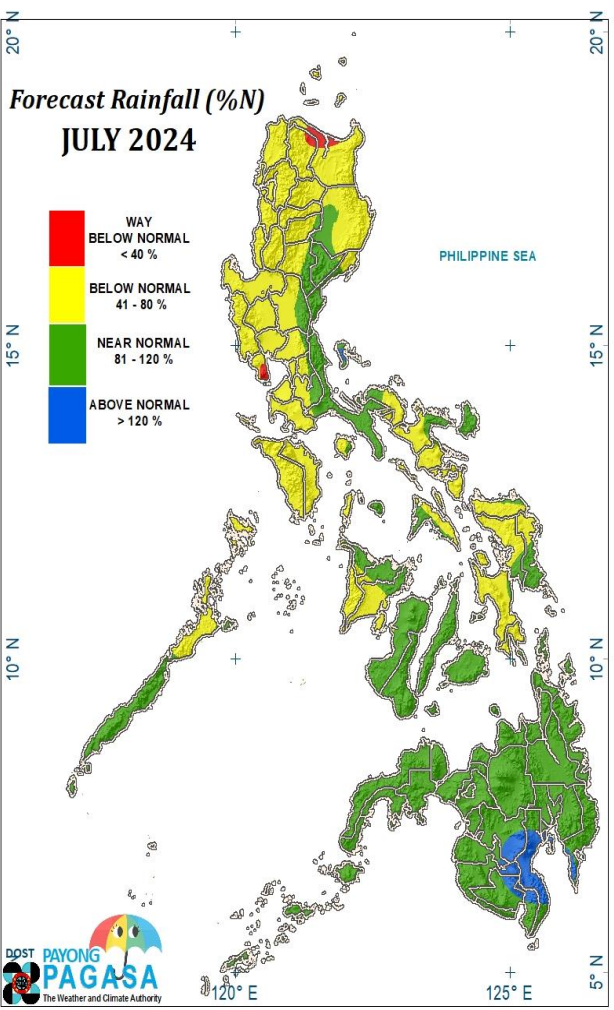
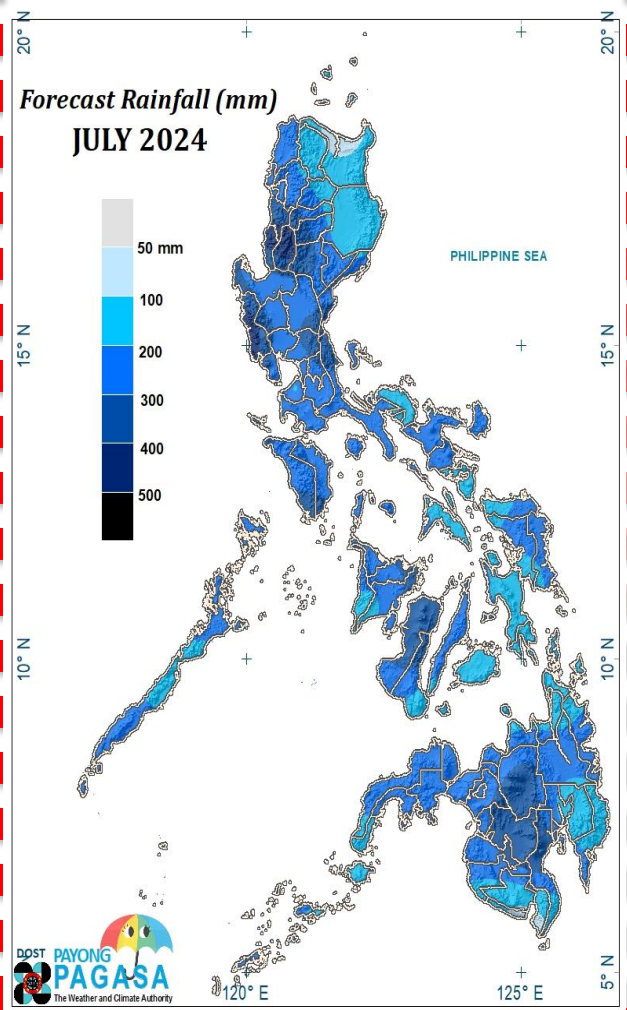
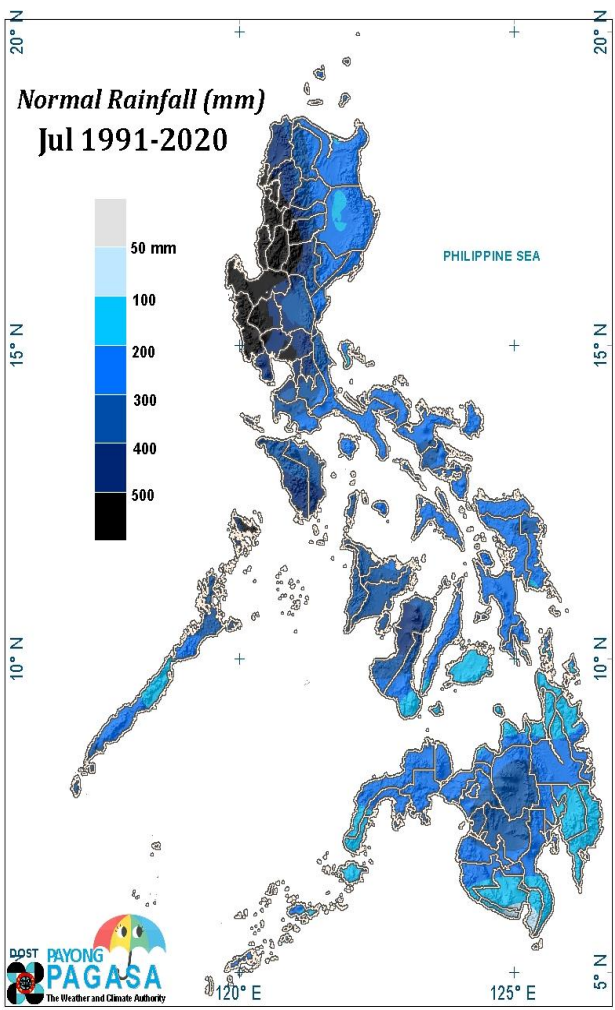
JULY 2024

Normal Rainfall

Forecast Rainfall

Percent of Normal

Probabilistic Forecast



way below normal	below normal	near normal	above normal
0	42	40	2

MONTHLY RAINFALL FORECAST

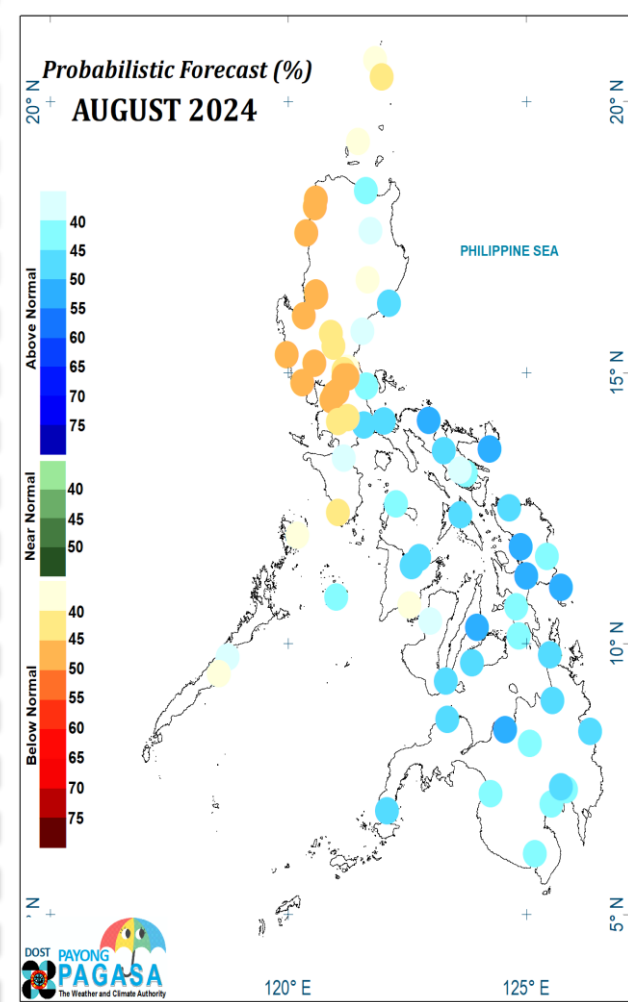
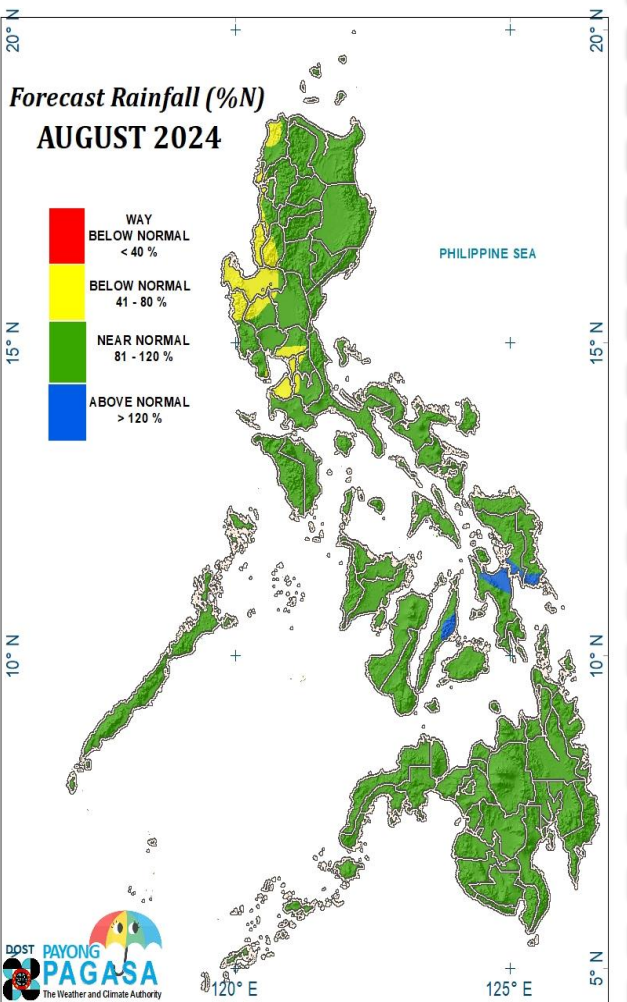
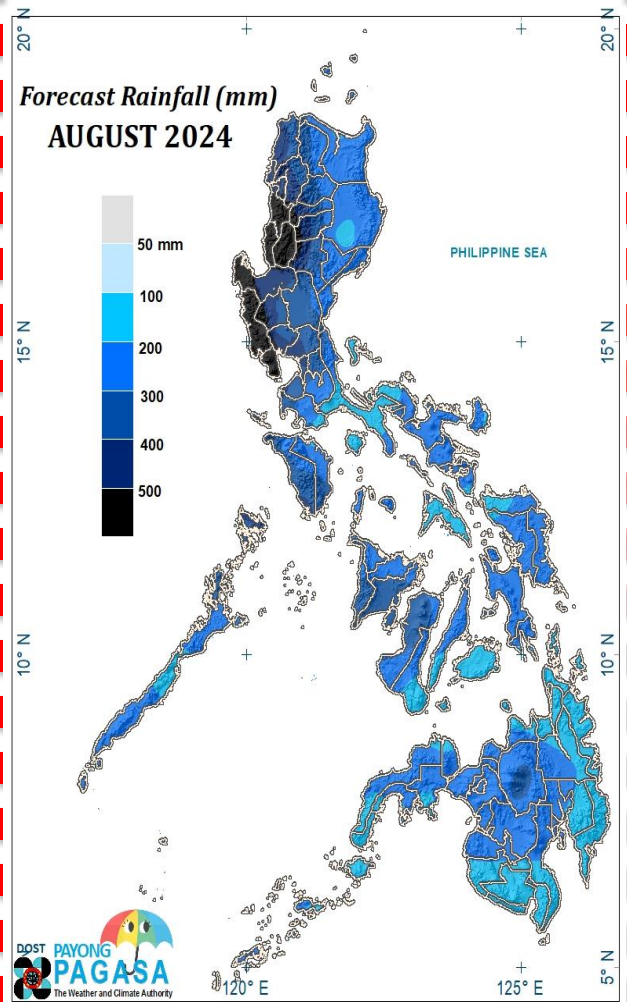
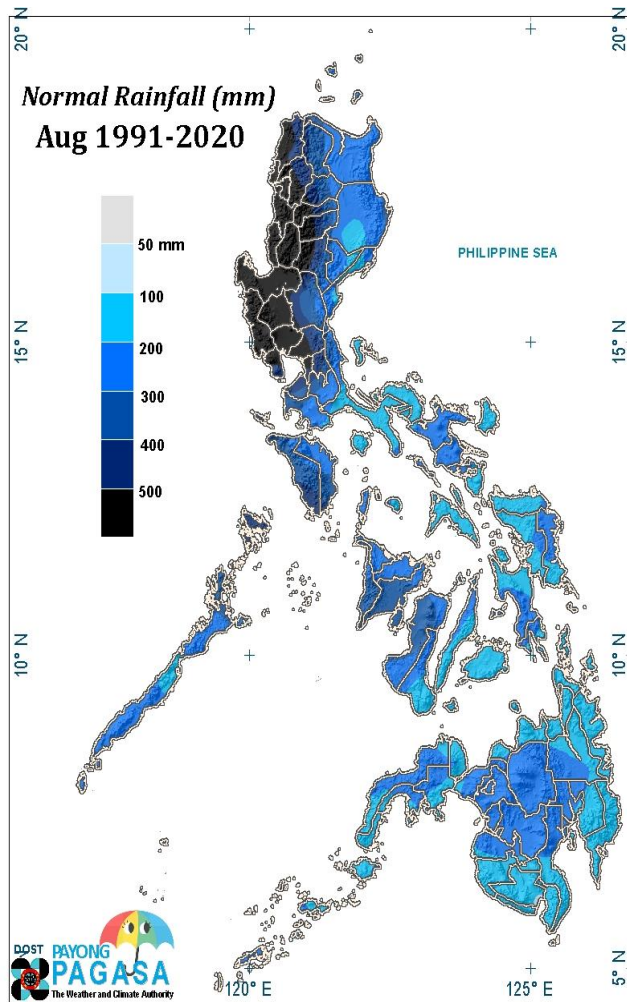
AUGUST 2024

Normal Rainfall

Forecast Rainfall

Percent of Normal

Probabilistic Forecast

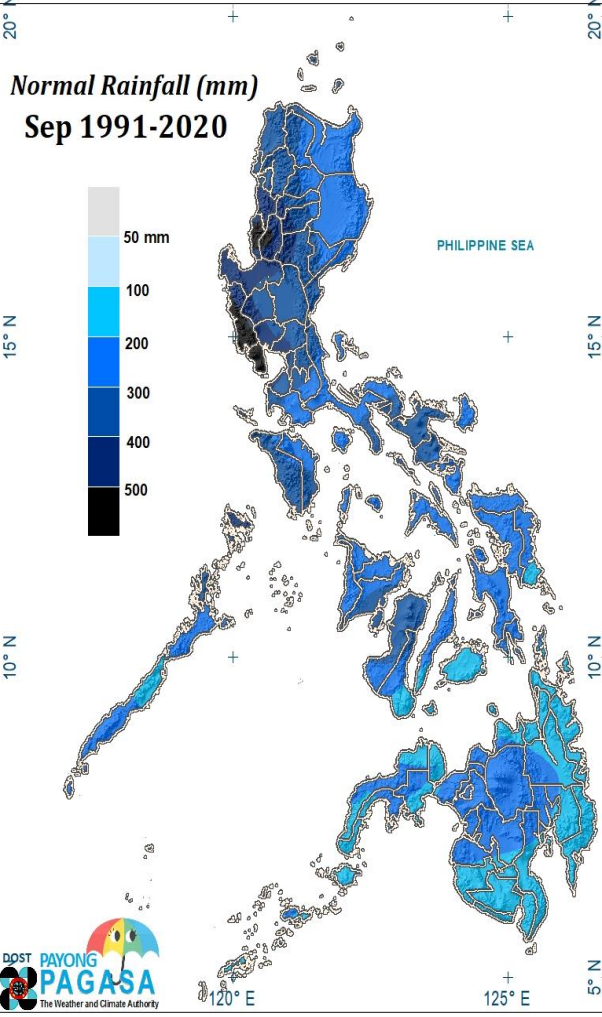


way below normal	below normal	near normal	above normal
0	9	75	0

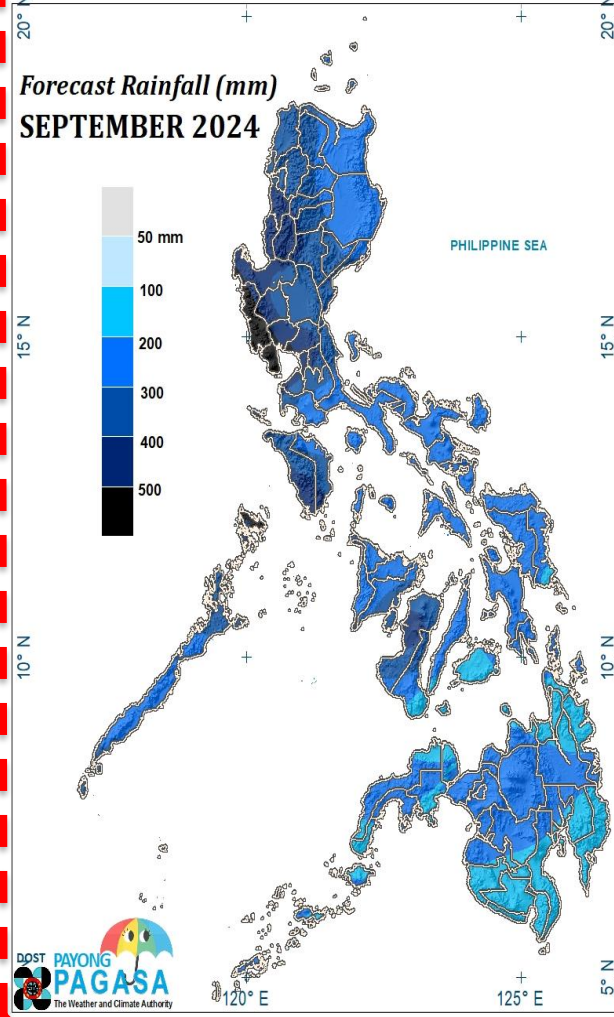
MONTHLY RAINFALL FORECAST

SEPTEMBER 2024

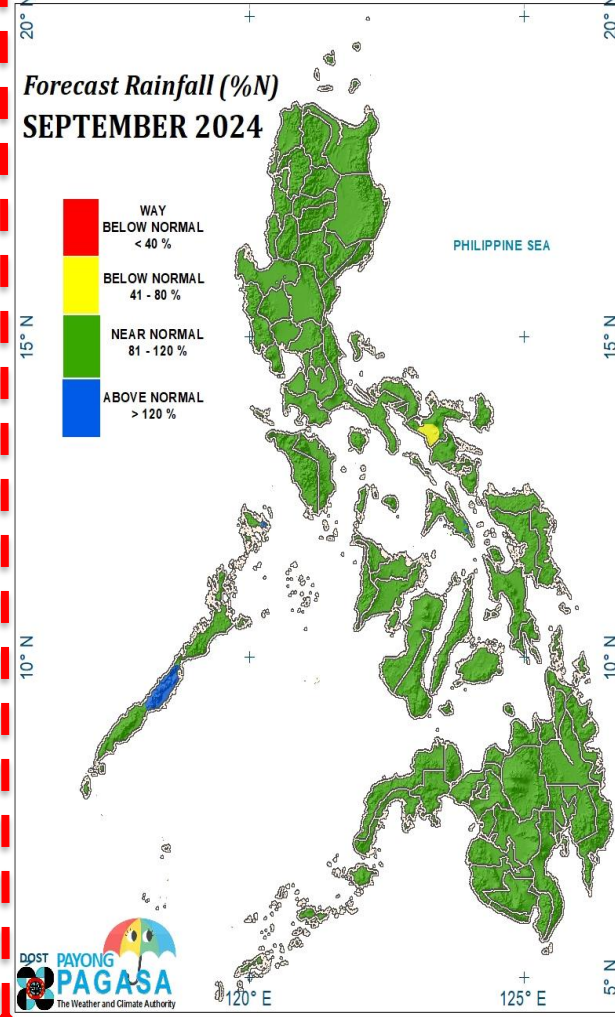
Normal Rainfall



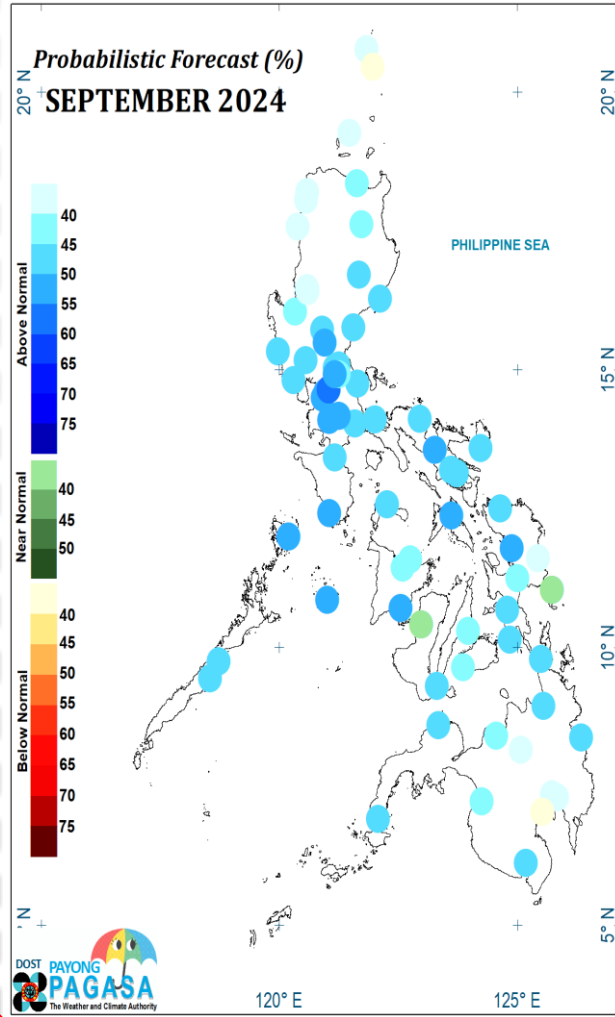
Forecast Rainfall



Percent of Normal



Probabilistic Forecast

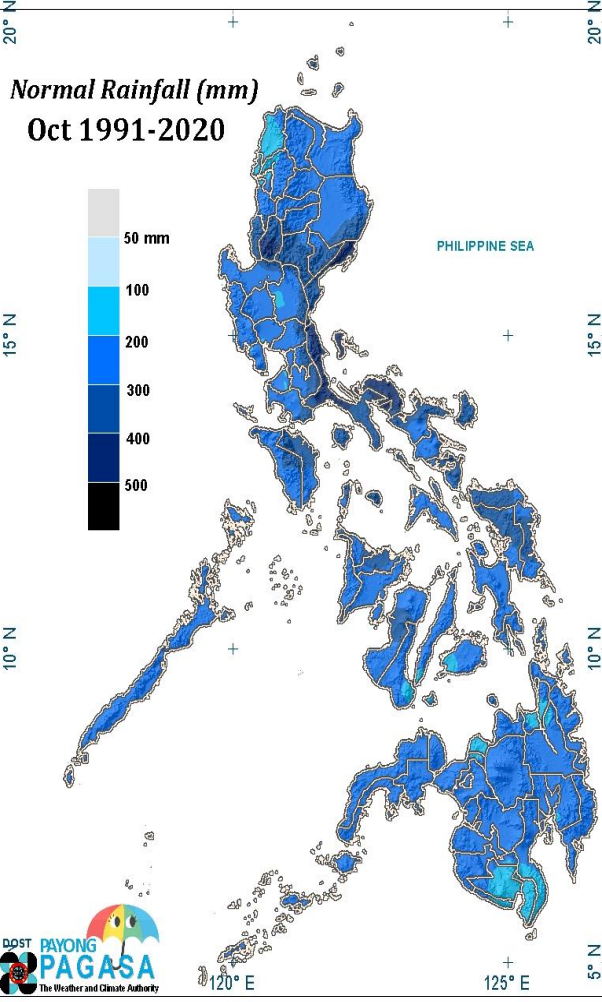


way below normal	below normal	near normal	above normal
0	0	84	0

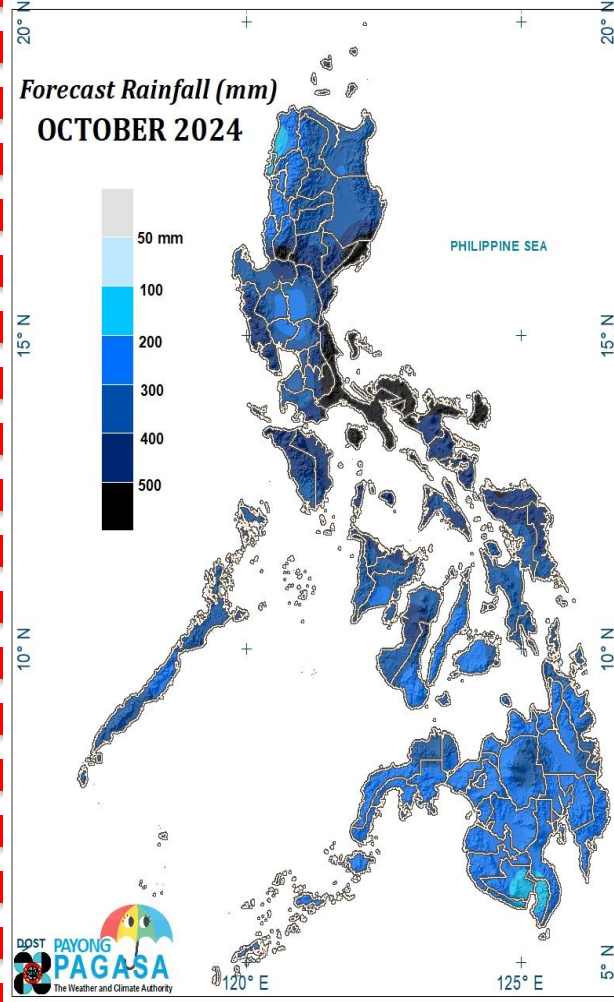
MONTHLY RAINFALL FORECAST

OCTOBER 2024

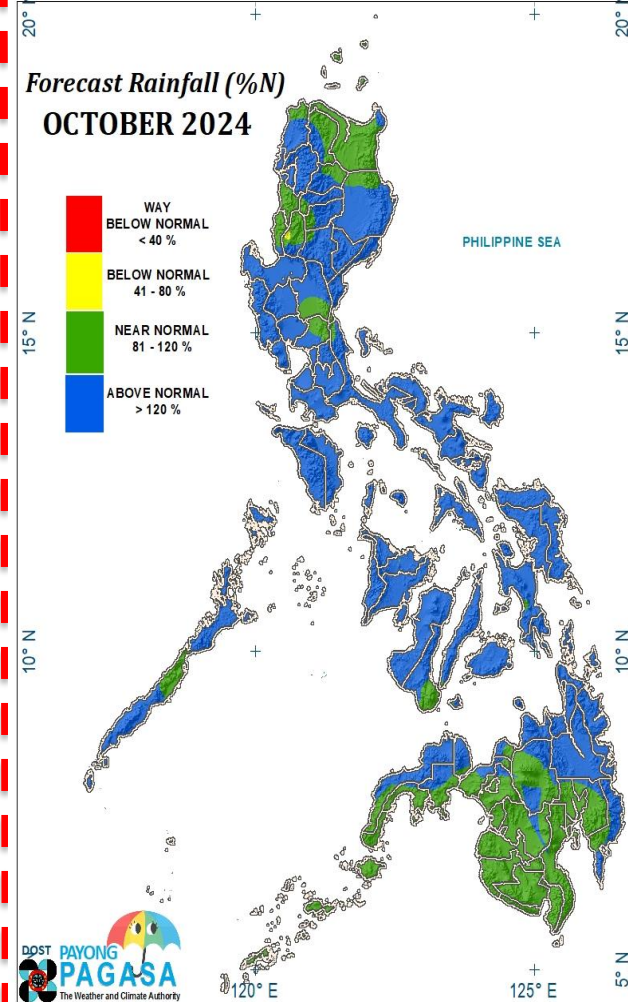
Normal Rainfall



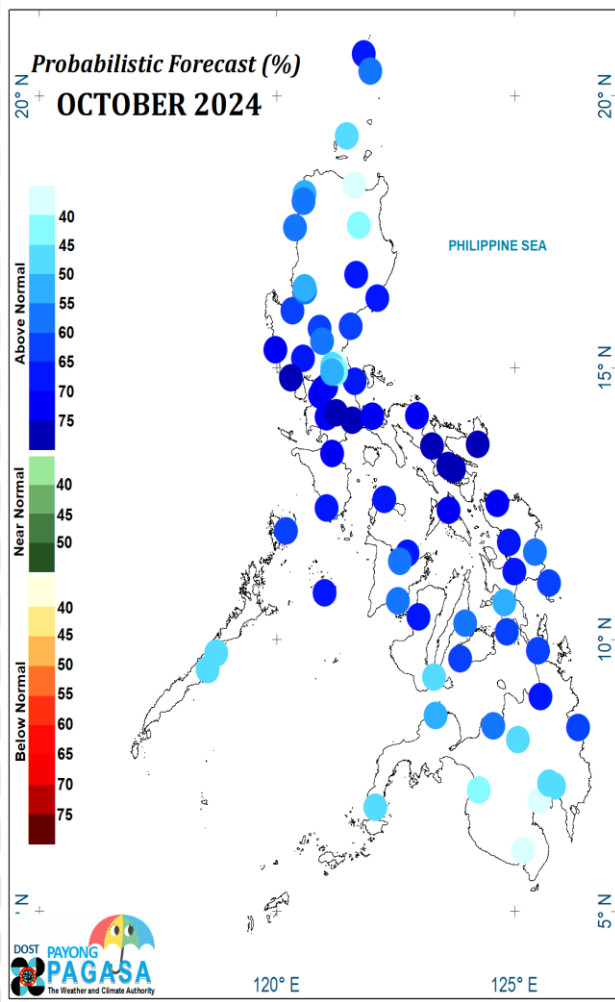
Forecast Rainfall



Percent of Normal



Probabilistic Forecast



way below normal	below normal	near normal	above normal
0	0	23	61

FORECAST RAINFALL in Percent of Normal (May – October 2024) as of Apr. 24, 2024

PROVINCE	MAY	JUN	JUL	AUG	SEP	OCT	PROVINCE	MAY	JUN	JUL	AUG	SEP	OCT	PROVINCE	MAY	JUN	JUL	AUG	SEP	OCT
CORDILLERA ADMINISTRATIVE REGION (CAR)							REGION IV-B (MIMAROPA)							REGION IX (ZAMBOANGA PENINSULA)						
ABRA	79.5	55.9	52.8	82.8	103.1	127.1	MARINDUQUE	60.1	99.0	79.5	103.7	103.6	152.2	ZAMBOANGA DEL NORTE	73.4	104.0	105.6	102.0	104.5	122.0
BENGUET	78.3	60.5	61.1	79.6	91.6	105.5	OCCIDENTAL MINDORO	59.7	77.4	67.6	90.0	113.4	150.0	ZAMBOANGA DEL SUR	77.5	104.6	106.4	102.6	104.9	118.2
IFUGAO	78.3	72.6	75.6	90.1	100.8	126.8	OCCIDENTAL MINDORO	62.4	87.3	71.4	93.4	111.4	148.2	ZAMBOANGA SIBUGAY	77.8	105.4	106.3	102.4	105.5	118.2
KALINGA	79.6	59.5	68.3	90.2	104.1	120.6	ROMBLON	56.5	91.8	82.7	103.3	99.3	157.5	REGION X (NORTHERN MINDANAO)						
APAYAO	86.0	47.7	46.3	84.1	104.2	118.7	PALAWAN	65.8	88.1	84.0	95.7	116.5	130.1	BUKIDNON	87.4	94.9	97.2	106.9	103.6	120.0
MOUNTAIN PROVINCE	78.6	65.3	71.2	88.4	101.2	123.6	SPRATLY ISLANDS	61.7	73.9	69.6	89.8	115.4	151.0	CAMIGUIN	71.7	92.0	103.7	112.6	108.9	126.3
REGION I							REGION V (BICOL)							LANAO DEL NORTE	78.8	96.6	100.0	110.3	102.8	118.7
ILOCOS NORTE	85.4	48.4	50.2	80.5	99.3	128.2	ALBAY	55.2	82.3	74.8	103.1	90.5	168.4	MISAMIS OCCIDENTAL	71.8	101.1	104.9	106.2	102.0	122.5
ILOCOS SUR	77.6	59.3	55.5	80.1	99.1	115.0	CAMARINES NORTE	56.3	98.1	80.4	116.7	107.2	147.8	MISAMIS ORIENTAL	80.2	96.1	106.3	115.6	108.2	123.4
LA UNION	76.8	57.2	56.5	76.4	90.6	103.5	CAMARINES SUR	54.1	91.8	79.9	112.4	87.1	157.5	REGION XI (DAVAO REGION)						
PANGASINAN	69.0	59.9	53.2	75.2	99.0	153.1	CATANDUANES	56.6	93.0	105.6	110.8	107.3	154.9	DAVAO DE ORO	93.2	101.5	97.3	102.4	101.3	115.2
REGION II							MASBATE	53.0	69.0	80.0	107.6	113.0	161.2	DAVAO CITY	94.3	104.4	119.5	103.6	96.7	112.8
BATANES	84.3	70.7	58.2	88.6	93.6	145.8	SORSOGON	56.6	76.6	68.4	103.9	109.8	151.7	DAVAO DEL NORTE	94.4	101.5	99.3	101.0	99.0	111.7
CAGAYAN	85.8	53.1	52.2	89.0	105.4	113.0	REGION VI (WESTERN VISAYAS)							DAVAO DEL SUR	91.3	103.6	137.4	107.1	98.4	116.7
ISABELA	78.1	82.2	76.2	100.5	106.3	129.6	AKLAN	63.1	94.0	85.3	102.8	98.2	137.9	DAVAO OCCIDENTAL	89.1	97.5	123.4	107.1	101.9	113.8
NUEVA VIZCAYA	78.2	78.8	76.5	91.3	100.4	131.7	ANTIQUÉ	67.5	86.6	68.2	99.4	99.7	136.9	DAVAO ORIENTAL	90.9	100.1	106.0	105.3	102.5	121.0
QUIRINO	79.3	99.2	84.4	104.6	106.0	136.8	CAPIZ	65.0	93.9	93.0	104.9	98.2	130.6	REGION XII (SOCCSKSARGEN)						
REGION III (CENTRAL LUZON)							GUIMARAS	75.8	88.9	68.5	96.3	104.9	129.0	SOUTH COTABATO	87.7	94.5	115.4	106.7	101.5	110.8
BATAAN	53.5	47.7	42.3	82.2	108.6	190.3	ILOILO	69.8	90.3	77.5	101.0	99.8	129.2	COTABATO	89.1	98.0	112.1	105.3	98.7	116.5
BULACAN	71.1	76.7	65.7	84.6	110.5	123.1	NEGROS OCCIDENTAL	70.6	95.4	91.5	103.5	112.2	134.6	SARANGANI	87.8	94.0	114.5	106.7	102.4	110.3
NUEVA ECUIA	73.0	77.1	76.0	91.5	105.7	128.7	REGION VII (CENTRAL VISAYAS)							SULTAN KUDARAT	86.8	94.7	109.2	106.2	101.5	115.3
PAMPANGA	64.5	59.7	56.2	83.0	107.1	145.4	NEGROS ORIENTAL	68.3	94.8	99.6	106.3	112.1	124.4	REGION XIII- CARAGA						
TARLAC	65.4	58.9	60.9	80.3	104.1	148.8	BOHOL	59.1	91.1	100.0	112.0	101.7	134.5	AGUSAN DEL NORTE	81.7	97.8	111.8	113.0	113.2	132.5
ZAMBALES	58.5	51.5	54.7	80.3	106.1	184.7	CEBU	60.0	98.3	102.7	117.0	106.5	128.1	AGUSAN DEL SUR	88.7	101.7	104.3	103.7	109.0	127.4
AURORA	80.4	104.1	87.2	109.0	106.8	134.3	SIQUIJOR	66.0	95.0	103.7	109.0	104.5	121.3	DINAGAT ISLANDS	73.5	76.7	89.0	116.3	116.7	132.9
NATIONAL CAPITAL REGION							REGION VIII (EASTERN VISAYAS)							SURIGAO DEL NORTE	77.5	88.0	97.2	113.1	117.0	132.8
METRO MANILA	60.6	70.1	52.4	77.4	111.8	146.5	BILIRAN	59.2	76.5	75.2	117.4	115.9	137.7	SURIGAO DEL SUR	86.8	103.3	111.1	105.8	112.9	130.1
REGION IV-A (CALABARZON)							EASTERN SAMAR	71.6	89.9	86.5	108.7	106.9	133.0	BARMM						
BATANGAS	68.6	79.2	66.4	85.6	102.8	155.4	LEYTE	64.2	78.1	76.8	115.9	108.5	131.0	BASILAN	84.4	110.6	112.9	100.4	112.6	115.8
CAVITE	60.6	63.1	50.0	77.5	105.9	161.2	NORTHERN SAMAR	60.3	81.4	77.2	95.8	114.3	150.6	MAGUINDANAO	86.0	93.3	100.8	106.2	100.2	111.9
LAGUNA	68.2	79.0	78.3	87.4	106.0	157.3	SAMAR (WESTERN SAMAR)	64.4	83.7	76.7	109.7	113.1	134.0	LANAO DEL SUR	82.8	93.4	96.0	109.6	102.2	116.8
RIZAL	69.3	83.2	75.3	83.3	110.5	139.1	SOUTHERN LEYTE	61.3	70.5	77.7	105.9	112.5	139.3	SULU	79.9	100.8	104.3	103.4	108.1	115.7
QUEZON	64.9	96.0	94.0	105.5	104.7	145.4								TAWI-TAWI	76.2	96.3	102.3	103.9	108.6	117.9

FORECAST RAINFALL in Millimeter (May – October 2024) as of Apr. 24, 2024

PROVINCE	MAY			JUNE			JULY			AUGUST			SEPTEMBER			OCTOBER		
	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN
CORDILLERA ADMINISTRATIVE REGION																		
ABRA	140.0	181.6	152.3	101.7	173.5	138.0	178.1	334.5	240.0	325.8	531.2	426.0	319.4	401.5	366.0	187.5	339.6	273.1
BENGUET	203.1	261.4	232.5	182.2	218.0	201.5	328.2	451.8	407.1	508.5	748.8	624.4	409.4	456.4	435.0	268.3	582.8	392.0
IFUGAO	163.8	224.3	191.6	118.4	196.0	157.4	177.7	405.2	285.5	232.4	562.4	389.1	272.9	420.3	344.0	307.8	363.8	332.3
KALINGA	133.1	171.8	150.8	83.9	148.1	107.0	148.9	283.7	195.9	218.7	455.9	313.6	253.2	365.7	298.7	305.8	343.4	330.3
APAYAO	127.8	144.1	136.4	69.5	109.4	87.7	87.0	195.4	150.8	223.5	361.8	295.9	274.6	347.6	310.7	257.9	339.4	314.5
MOUNTAIN PROVINCE	151.2	209.7	177.3	101.3	183.7	142.2	171.0	389.8	271.8	248.1	561.4	405.3	265.5	413.4	340.6	290.5	343.8	326.9
REGION I																		
ILOCOS NORTE	25.6	149.5	144.3	11.8	149.9	117.3	186.5	253.2	224.0	331.6	451.0	398.5	329.0	386.8	362.7	144.4	321.9	219.0
ILOCOS SUR	142.1	235.1	178.5	141.5	208.6	178.3	232.8	451.3	335.6	424.1	683.9	540.3	381.1	452.5	410.5	164.1	320.4	238.9
LA UNION	201.7	243.8	223.2	201.1	224.8	214.0	314.5	447.6	401.8	536.6	712.6	650.5	434.9	459.9	449.9	252.6	489.0	316.8
PANGASINAN	23.2	218.0	175.9	176.3	252.6	212.3	238.0	381.5	288.8	358.1	611.7	488.3	366.5	531.4	435.5	328.1	518.9	389.2
REGION II																		
BATANES	175.9	181.1	178.6	127.5	147.9	137.2	131.1	192.0	148.5	291.7	337.3	308.3	312.1	315.0	313.0	399.4	475.2	441.3
CAGAYAN	124.9	170.1	133.0	67.0	121.4	80.5	67.4	189.3	118.9	185.9	341.9	231.2	249.9	334.7	273.0	293.0	361.7	323.5
ISABELA	132.4	193.8	160.7	85.5	204.6	137.3	150.7	255.1	173.9	179.0	325.8	228.2	249.5	325.2	272.4	303.3	561.2	365.9
NUEVA VIZCAYA	190.9	231.2	212.6	161.2	234.3	194.9	243.8	405.7	317.9	233.6	567.4	388.1	318.9	426.1	372.2	331.8	531.1	424.4
QUIRINO	176.3	223.9	204.1	168.0	236.6	207.7	182.6	291.1	236.3	207.1	322.8	242.9	284.5	349.9	312.7	346.0	581.1	448.4
REGION III																		
BATAAN	16.7	129.5	117.4	23.1	175.6	161.6	234.8	395.5	298.4	483.2	740.0	603.8	514.2	635.6	581.5	375.5	480.9	424.4
BULACAN	12.3	183.1	149.2	11.2	262.9	221.1	225.6	365.5	304.2	330.4	505.8	394.0	364.5	541.6	431.3	270.2	486.4	340.9
NUEVA ECUA	8.9	208.0	167.3	25.6	257.3	200.5	234.4	362.4	280.7	262.6	434.1	339.7	335.7	406.7	359.9	223.1	485.0	334.7
PAMPANGA	5.8	146.0	135.1	8.9	206.2	179.6	227.3	350.4	266.3	359.0	570.1	430.7	378.2	551.2	457.6	245.2	401.0	309.1
TARLAC	17.5	169.8	142.9	6.3	213.0	184.8	227.0	411.4	281.2	356.5	650.0	446.9	353.1	537.4	417.1	238.1	451.3	324.3
ZAMBALES	123.2	163.5	139.3	170.1	252.2	208.8	296.7	492.4	400.0	519.2	782.5	659.5	454.2	674.6	562.9	359.9	505.0	438.5
AURORA	174.7	237.2	201.1	197.3	271.8	240.5	186.2	372.6	264.2	199.7	337.2	241.0	287.0	379.0	318.0	413.6	684.3	533.1
NATIONAL CAPITAL REGION																		
METRO MANILA	8.7	134.6	112.1	13.8	223.3	193.4	205.8	285.1	237.3	317.6	446.1	393.9	386.6	494.2	446.7	310.6	411.4	359.6
REGION IV-A																		
BATANGAS	100.7	123.9	111.1	161.3	245.1	191.3	204.1	280.9	221.5	182.0	457.3	264.2	238.1	477.1	290.3	307.8	553.2	400.8
CAVITE	3.4	106.4	98.8	14.2	173.0	159.0	199.1	247.3	209.7	283.6	454.7	356.7	318.8	479.6	400.3	310.7	371.5	330.1
LAGUNA	96.9	132.7	110.1	158.4	224.7	179.7	205.2	293.3	247.7	191.4	369.2	246.1	263.2	425.4	320.5	317.9	667.1	479.4
RIZAL	106.7	165.2	132.6	171.3	254.8	219.8	241.5	343.5	288.2	240.5	414.6	332.4	322.3	445.6	393.6	351.3	574.5	439.7
QUEZON	83.8	190.4	114.6	135.1	292.0	205.1	180.5	376.1	253.3	151.5	334.8	201.9	250.0	390.9	292.8	341.4	709.6	590.4
REGION IV-B																		
MARINDUQUE	92.3	102.3	97.8	201.3	248.5	225.6	207.5	228.1	214.8	173.5	205.9	187.9	263.4	286.1	275.2	510.4	572.8	521.6
OCCIDENTAL MINDORO	86.5	123.4	106.5	157.6	265.5	225.8	213.1	373.0	271.6	243.4	498.2	334.4	277.8	492.8	392.6	352.1	469.4	422.6
ORIENTAL MINDORO	91.0	130.5	109.2	167.8	269.4	242.0	205.5	325.2	253.2	184.4	396.3	273.7	248.5	452.6	337.3	376.2	511.9	441.6
ROMBLON	87.7	101.7	92.5	211.5	253.7	232.7	234.8	297.5	262.1	206.0	284.3	243.0	227.5	315.6	260.8	413.2	513.3	476.5
PALAWAN	5.6	114.1	97.5	150.0	239.6	189.4	153.1	334.9	224.3	163.6	421.8	263.5	217.0	527.8	309.2	219.6	433.0	330.4
SPRATLY ISLANDS	104.7	107.4	106.8	198.2	199.9	199.6	278.4	286.4	279.7	381.4	390.8	383.0	405.1	417.9	407.2	356.0	370.6	358.4
REGION V																		
ALBAY	87.4	106.1	94.6	15.1	193.8	162.5	183.0	238.4	219.6	209.4	252.0	244.4	260.3	288.9	273.7	449.4	537.2	473.6
CAMARINES NORTE	85.0	98.5	90.4	169.1	194.1	180.6	172.1	217.8	186.2	161.1	224.3	192.8	290.3	299.6	295.6	579.9	713.4	637.5
CAMARINES SUR	85.3	92.6	87.9	157.6	194.0	170.9	182.0	256.0	218.8	185.6	250.7	231.6	276.9	299.0	293.0	447.0	660.2	526.8
CATANDUANES	91.5	94.0	93.0	194.6	204.8	200.2	245.0	263.2	259.1	197.2	217.1	204.1	275.5	293.4	283.9	532.8	594.1	562.9
MASBATE	72.6	91.2	81.1	117.4	237.0	132.2	139.7	295.0	183.3	181.0	238.0	197.0	243.4	286.4	256.7	368.1	520.8	416.1
SORSOGON	87.9	101.6	94.7	135.9	185.5	154.6	132.8	206.3	161.1	194.9	241.9	214.7	247.3	266.4	255.2	428.6	503.8	471.9

FORECAST RAINFALL in Millimeter (May – October 2024) as of Apr. 24, 2024

PROVINCE REGION VI	MAY			JUNE			JULY			AUGUST			SEPTEMBER			OCTOBER		
	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN
AKLAN	100.8	118.5	110.7	240.3	286.0	276.5	237.0	300.2	282.5	235.2	298.4	262.1	245.0	326.1	267.1	363.8	431.4	400.0
ANTIQUE	95.7	122.8	116.5	174.4	276.2	246.8	173.5	326.7	218.0	262.6	389.1	321.2	261.9	438.4	287.0	300.1	437.8	348.8
CAPIZ	93.1	122.3	113.7	242.3	287.7	279.3	210.9	311.2	280.0	228.4	308.2	265.0	243.7	294.3	260.7	333.6	441.9	392.5
GUIMARAS	129.3	138.4	132.4	251.8	283.9	269.4	237.1	315.8	269.8	369.7	387.8	381.6	347.9	402.6	369.1	282.1	383.3	324.3
ILOILO	91.5	129.6	119.9	201.2	292.4	268.8	173.5	331.6	247.0	217.3	388.6	325.6	253.9	358.5	298.3	266.0	421.4	327.2
NEGROS OCCIDENTAL	98.0	151.0	121.2	205.2	301.7	265.0	235.5	397.3	339.9	227.6	378.3	307.2	260.3	428.0	368.4	313.4	495.0	380.0
REGION VII																		
NEGROS ORIENTAL	75.0	135.4	99.7	169.6	289.5	210.0	157.3	396.6	248.2	115.4	335.0	206.8	150.7	415.5	260.9	179.6	458.0	299.4
BOHOL	59.0	70.9	62.4	126.7	181.4	143.5	132.8	203.9	160.6	127.4	201.9	162.1	134.5	247.7	174.7	240.1	343.6	283.8
CEBU	59.2	96.9	81.3	160.3	250.5	209.1	158.3	325.0	254.5	126.8	260.1	212.3	162.1	303.1	251.9	202.8	400.3	297.7
SIOUIJOR	74.4	81.7	77.5	153.5	167.6	160.9	136.2	151.9	144.2	122.6	134.5	128.0	131.3	138.6	133.9	218.7	264.1	242.8
REGION VIII																		
BILIRAN	86.1	97.0	91.3	145.6	171.6	161.8	185.8	199.4	194.9	203.3	223.7	216.6	280.2	294.5	287.7	355.0	387.7	376.3
EASTERN SAMAR	109.0	142.0	122.7	166.4	208.2	198.2	181.6	241.0	218.5	194.3	218.8	213.1	184.1	278.4	231.8	328.3	437.7	396.8
LEYTE	58.7	114.2	91.5	126.0	191.0	167.0	166.5	223.4	184.4	202.3	253.2	228.2	226.6	293.0	270.2	286.2	393.5	341.6
NORTHERN SAMAR	86.2	112.9	100.7	128.6	196.2	175.7	134.1	234.5	192.7	189.2	212.6	199.7	245.2	285.6	265.4	404.9	518.1	466.7
SAMAR (WESTERN SAMAR)	86.3	130.2	108.8	131.0	203.6	183.7	161.9	230.5	202.0	193.4	230.1	213.1	210.3	295.5	268.8	291.9	480.5	394.3
SOUTHERN LEYTE	57.3	89.1	74.2	119.2	151.1	129.6	143.5	190.9	174.9	175.7	235.4	210.9	233.1	280.4	266.7	321.7	362.9	346.4
REGION IX																		
ZAMBOANGA DEL NORTE	92.8	122.2	109.0	177.4	263.0	233.1	178.8	278.8	246.8	149.5	239.4	207.8	153.2	243.7	207.5	243.5	367.2	302.3
ZAMBOANGA DEL SUR	90.5	134.9	117.0	174.1	264.4	230.8	175.3	278.8	232.9	131.3	224.2	194.4	184.5	220.6	202.3	223.7	322.9	264.6
ZAMBOANGA SIBUGAY	103.2	123.4	113.9	193.3	251.3	225.3	198.7	263.3	232.8	169.9	223.3	202.6	181.7	220.0	211.7	244.0	282.9	271.2
REGION X																		
BUKIDNON	125.4	205.5	178.1	218.0	295.0	263.1	243.9	374.5	312.4	218.9	317.3	283.6	222.2	281.4	264.0	228.7	346.7	296.9
CAMIGUIN	86.2	96.5	91.1	152.2	165.1	157.6	149.4	167.0	159.3	161.9	172.7	167.0	182.8	192.6	187.6	293.5	313.3	295.2
LANAO DEL NORTE	123.3	153.3	137.1	234.9	259.2	249.0	220.3	272.1	238.2	207.8	264.1	229.6	198.7	256.5	219.2	228.3	273.3	250.0
MISAMIS OCCIDENTAL	100.2	129.6	116.1	216.5	262.3	244.7	219.0	268.7	242.3	179.6	219.5	205.2	170.8	214.3	197.5	263.1	341.6	304.6
MISAMIS ORIENTAL	101.4	146.5	121.4	168.3	246.1	210.9	163.6	269.1	220.6	152.9	256.5	212.3	175.7	252.1	217.3	216.7	296.0	261.7
REGION XI																		
DAVAO DE ORO	183.5	207.2	194.6	193.9	248.6	219.9	108.8	216.5	144.1	172.3	230.9	189.1	169.1	230.9	189.6	198.5	295.9	251.3
DAVAO CITY	203.7	229.7	214.6	240.0	285.9	268.7	225.8	383.0	327.8	201.6	280.8	258.0	178.8	248.8	207.7	223.1	290.0	271.9
DAVAO DEL NORTE	192.5	217.6	202.9	221.6	281.1	247.3	129.6	325.7	222.3	183.1	283.5	229.5	165.0	259.8	214.4	206.5	311.5	257.5
DAVAO DEL SUR	138.9	218.9	177.9	183.6	266.9	231.9	232.6	382.0	331.1	151.1	252.4	203.4	130.4	187.8	160.0	189.0	290.4	259.2
DAVAO OCCIDENTAL	111.0	171.9	131.9	122.4	220.3	160.8	95.1	321.2	187.3	124.0	189.4	144.5	121.7	152.9	131.8	167.0	269.0	222.4
DAVAO ORIENTAL	150.7	208.4	184.1	188.3	240.8	203.4	111.4	247.0	163.9	171.4	192.3	177.9	166.4	203.3	177.9	235.4	301.0	272.1
REGION XII																		
SOUTH COTABATO	97.4	161.3	128.4	119.6	223.9	163.0	87.2	277.2	165.5	98.1	195.5	142.9	108.9	172.9	134.3	93.9	253.9	197.5
COTABATO	169.9	212.8	192.3	236.4	295.2	280.3	286.7	388.9	354.1	202.6	294.7	262.7	168.3	265.8	226.5	247.5	291.7	271.6
SARANGANI	101.8	143.8	115.6	114.3	190.8	137.5	78.4	247.1	126.1	103.5	157.8	123.8	109.7	157.3	122.8	109.7	253.9	188.9
SULTAN KUDARAT	131.0	176.8	152.7	165.1	253.4	208.2	154.3	344.1	227.3	152.3	225.8	185.8	142.5	201.9	175.4	210.9	266.7	252.2
REGION XIII																		
AGUSAN DEL NORTE	100.9	151.4	121.2	143.3	226.4	187.6	132.3	238.9	179.7	131.2	204.2	149.4	162.8	210.6	175.6	230.5	301.7	261.4
AGUSAN DEL SUR	120.9	222.0	179.6	174.4	264.8	241.4	155.0	293.0	234.2	135.4	272.7	201.0	164.1	260.2	209.8	247.3	345.1	290.7
DINAGAT ISLANDS	91.4	104.3	98.6	128.6	149.8	137.5	154.7	204.0	175.8	164.7	202.3	185.2	210.9	238.7	229.3	318.3	343.8	324.1
SURIGAO DEL NORTE	91.4	132.7	109.0	127.4	181.6	150.6	131.7	202.7	153.6	135.1	189.7	154.4	169.1	225.6	195.6	284.7	339.0	319.7
SURIGAO DEL SUR	117.1	227.6	170.2	165.1	271.1	229.3	147.4	268.2	215.6	135.2	197.5	169.5	165.1	209.3	186.3	271.4	352.9	304.1
BARMIM																		
BASILAN	94.4	107.6	101.2	175.6	188.5	179.2	177.1	201.9	183.8	141.3	175.1	154.3	195.7	208.7	199.4	236.7	267.6	251.8
MAGUINDANAO	153.4	191.0	175.9	221.7	284.6	253.0	223.8	362.8	278.4	191.6	273.9	233.2	165.1	251.9	214.5	241.2	300.0	273.1
LANAO DEL SUR	133.5	190.1	162.0	243.4	290.9	265.7	235.0	355.0	275.9	218.1	295.0	259.2	210.2	270.1	243.6	242.8	280.5	258.7
SULU	95.6	113.1	105.0	178.7	210.9	193.1	189.3	238.1	209.2	170.6	223.9	193.4	184.4	244.1	205.6	245.0	278.3	257.5
TAWI-TAWI	93.3	111.3	109.3	186.0	217.6	201.4	193.5	257.6	229.4	181.4	271.1	215.7	186.9	307.0	218.3	245.0	315.8	262.6

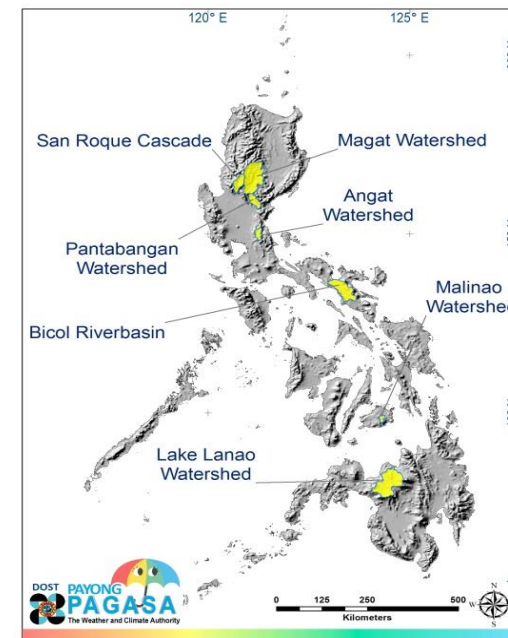


FORECAST WATERSHED RAINFALL for selected Dams and Lakes

in (mm) and (%N) FOR MAY 2024 – OCTOBER 2024

FORECAST WATERSHED RAINFALL (MAY 2024 - OCT 2024)

NAME		Angat WS	La Mesa WS	Lake Buhi	Lake Lanao	Magat WS	Malinao WS	Pantabangan WS	San Roque Cascade WS
MAY	MIN	152.6	127.4	85.3	116.5	176.3	60.0	183.2	208.9
	MAX	183.9	138.0	99.3	178.7	230.6	64.9	209.3	257.7
	MEAN	171.7	131.7	88.6	152.2	206.8	61.9	199.3	234.4
	%NORMAL	79.3	66.1	53.5	82.9	78.1	58.6	77.0	78.0
JUNE	MIN	231.4	211.3	151.1	227.1	134.7	133.4	192.2	193.4
	MAX	260.8	225.9	171.4	281.7	199.1	142.8	231.0	208.7
	MEAN	247.3	219.4	163.5	257.0	179.7	137.4	205.2	200.6
	%NORMAL	87.8	76.9	87.2	94.0	73.5	89.2	82.3	61.9
JULY	MIN	321.9	260.0	204.3	223.6	214.9	150.4	263.2	316.1
	MAX	367.3	292.1	237.5	329.2	407.7	168.8	306.3	441.5
	MEAN	346.7	278.7	227.0	272.7	323.9	158.4	284.8	401.8
	%NORMAL	82.0	58.8	76.7	97.9	74.0	99.1	79.9	61.7
AUGUST	MIN	328.6	395.0	226.4	226.7	275.9	153.7	259.9	496.0
	MAX	394.6	422.2	252.0	298.4	569.0	171.9	403.9	721.2
	MEAN	360.2	410.5	245.3	261.2	424.2	164.0	322.1	598.7
	%NORMAL	89.6	78.1	107.0	112.2	88.8	111.4	93.8	80.1
SEPTEMBER	MIN	365.4	443.1	269.4	221.3	300.1	164.7	339.2	411.2
	MAX	430.5	452.0	296.8	278.6	425.5	191.1	386.9	447.0
	MEAN	397.2	447.9	285.2	249.8	373.0	177.6	363.1	431.6
	%NORMAL	109.9	112.5	81.5	104.1	99.0	101.8	104.6	92.0
OCTOBER	MIN	315.6	366.3	447.0	216.7	310.7	277.7	352.2	328.9
	MAX	487.5	389.9	556.9	301.2	509.7	304.0	468.1	569.6
	MEAN	398.8	378.5	468.7	255.2	381.1	294.2	408.5	457.1
	%NORMAL	111.6	136.0	167.5	118.7	127.1	133.7	138.0	115.3



Probabilistic RAINFALL Forecast (%)

Forecast Issuance date: 24 April 2024

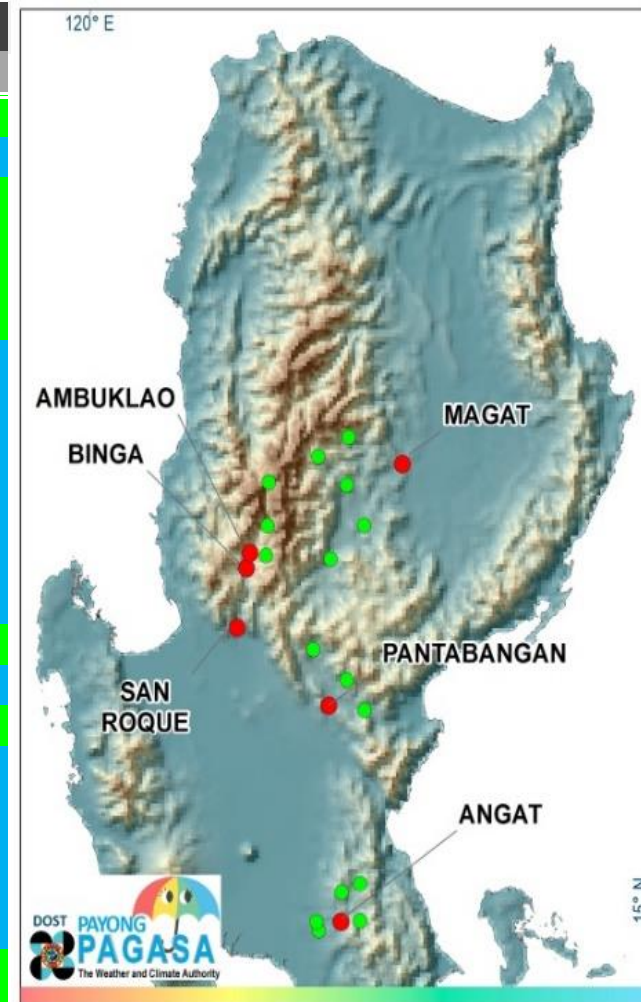
Probabilistic Forecast for ANGAT

Forecast Months	% PROBABILITY OF HAVING:		
	Below Normal	Near Normal	Above Normal
MAY	47	30	23
JUNE	60	27	13
JULY	63	25	12
AUGUST	49	28	22
SEPTEMBER	15	31	55
OCTOBER	19	28	53

FORECAST RAINFALL OF RAIN STATIONS OVER SELECTED DAM AREAS

in (mm) and (%N) FOR MAY 2024 – OCTOBER 2024

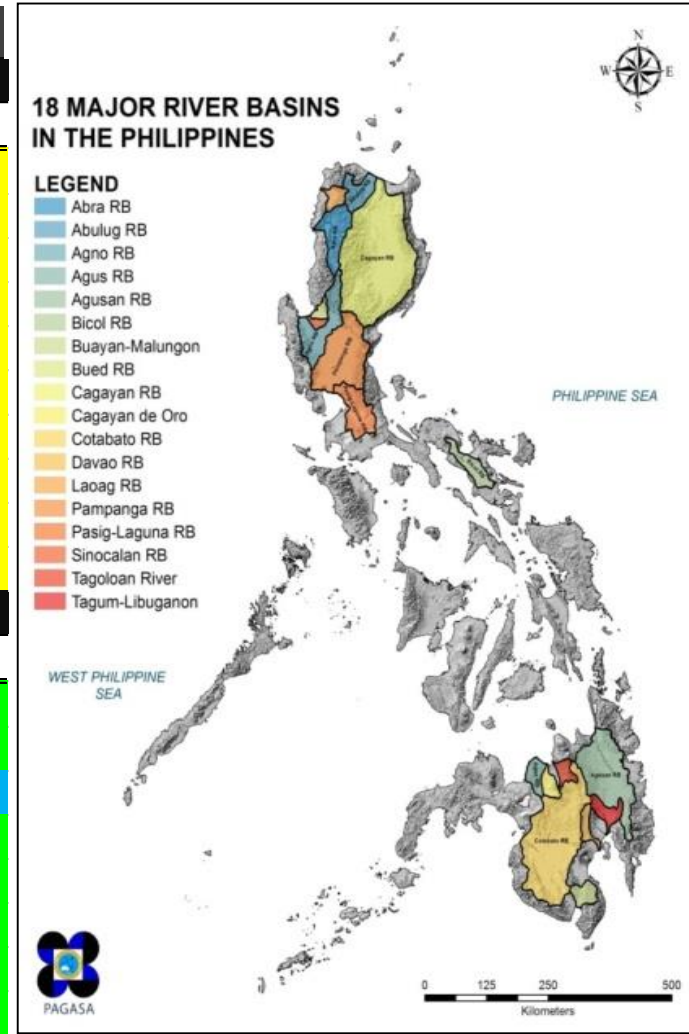
SITES	MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER	
	MM	%NORMAL	MM	%NORMAL	MM	%NORMAL	MM	%NORMAL	MM	%NORMAL	MM	%NORMAL
AMBUKLAODAM	243.9	78.7	202.4	61.1	420.4	61.7	635.8	79.8	438.8	91.1	449.4	105.9
ANGATDAM	152.0	72.5	236.1	82.1	323.0	69.9	361.3	78.9	430.6	111.7	317.3	123.9
APUNAN	231.7	78.9	201.0	63.4	418.0	65.2	605.6	81.9	432.2	92.0	367.8	101.9
BADAYAN	218.5	78.8	191.5	62.8	406.8	66.4	580.1	82.6	422.0	93.3	311.2	101.9
BINGADAM	242.1	78.2	202.5	60.5	404.8	60.3	624.0	79.0	437.2	91.4	505.1	116.3
BOBOK	236.9	78.3	199.2	63.1	415.4	64.1	589.2	81.2	432.1	92.3	457.2	113.3
BUNGA	201.0	75.8	195.9	75.0	293.5	71.7	377.6	88.0	379.1	101.5	450.5	144.3
BUYOC	198.9	78.3	168.7	75.0	303.8	76.6	396.8	90.1	354.8	100.2	331.6	128.1
DANTOR	186.3	78.1	147.1	70.3	271.8	74.6	384.0	89.8	337.5	101.5	334.4	129.7
DUMAYUP	202.7	78.1	178.4	81.3	291.7	79.0	356.2	92.8	348.2	101.5	363.1	130.9
HALONG	198.3	78.4	165.7	68.0	330.4	72.1	456.3	87.0	372.8	98.4	321.0	121.1
IPODAM	140.5	67.9	222.1	75.8	289.4	59.0	399.9	78.5	448.0	111.9	317.6	127.7
MAGATDAM	180.7	77.9	148.0	81.3	215.4	80.6	278.8	95.0	300.3	104.9	331.1	137.5
MAPUTI	179.9	82.9	249.0	88.7	355.4	84.6	360.8	101.2	388.2	109.1	479.1	114.1
MARIKIT	204.8	79.0	226.8	90.2	286.8	87.7	284.0	99.7	355.2	106.4	410.4	131.8
MATULID	169.3	78.4	246.8	87.3	338.5	79.0	363.2	75.1	411.1	111.1	315.6	104.7
NORZAGARAY	142.7	68.6	221.6	75.5	294.2	59.7	399.5	79.3	445.6	111.6	306.8	124.7
PADALIS	199.8	77.3	203.4	83.6	287.6	83.3	305.2	95.4	361.1	105.7	403.4	136.7
PANTABANGAN DAM	185.5	75.2	201.2	80.7	274.7	79.0	313.2	92.8	361.0	105.9	351.6	135.7
SANROQUEDAM	208.8	74.3	194.4	60.5	315.7	55.1	498.6	77.3	412.9	94.7	503.3	147.0
STODOMINGO	213.7	78.1	193.7	75.8	345.3	75.5	429.3	89.0	387.7	98.6	407.4	126.1
TALAGUIO	165.8	76.5	235.5	82.7	338.9	75.5	393.8	86.0	405.2	109.6	337.4	106.2
UMIRAY	175.0	80.3	262.9	95.0	352.7	90.5	326.8	89.3	382.6	110.0	452.6	114.4



FORECAST RAINFALL OVER SELECTED RIVER BASINS

in (mm) and (%N) FOR MAY 2024 – OCTOBER 2024

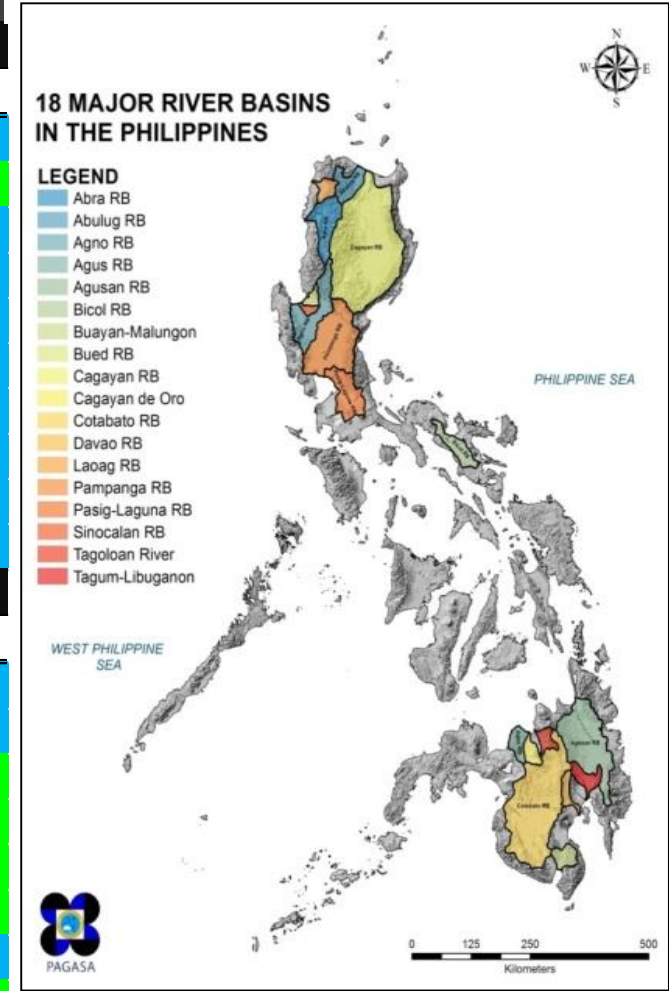
CATCHMENT	MAY 2024				JUNE 2024				JULY 2024			
	LUZON											
	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal
Abra RB	140.1	224.1	161.7	79.1	104.0	197.4	147.3	57.0	182.5	420.7	267.9	54.8
Abulug RB	127.4	142.5	135.2	86.9	67.1	107.2	85.4	46.9	74.0	197.0	142.5	43.5
Agno RB	135.7	257.8	177.8	69.9	171.9	228.2	194.5	60.1	228.4	441.8	311.2	58.6
Bicol RB	85.3	98.6	88.0	53.6	153.7	174.9	164.8	88.8	181.3	236.5	220.2	76.6
Bued RB	171.3	253.1	203.1	73.0	189.8	211.4	201.8	57.8	262.0	401.0	308.7	52.2
Cagayan RB	124.9	230.6	169.3	79.5	67.0	237.4	140.0	74.0	67.6	407.5	206.7	72.3
Laoag RB	138.2	148.8	142.7	84.3	95.6	140.1	117.4	49.0	175.6	247.3	214.7	47.9
Pampanga RB	117.6	208.9	156.1	70.5	168.2	260.8	198.4	72.2	227.0	367.3	284.5	69.9
Pasig-Laguna RB	95.2	159.3	116.6	66.7	153.6	250.2	190.8	75.8	203.7	335.5	253.0	67.8
Sinocalan RB	160.4	191.6	172.0	69.1	184.5	214.9	196.0	58.5	243.9	283.5	256.5	51.3
CATCHMENT	MINDANAO											
	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal
	Agus RB	108.5	163.0	128.8	80.6	210.9	268.2	237.9	95.8	200.0	298.3	238.6
Agusan RB	110.9	213.2	176.4	88.8	174.1	260.8	234.2	101.2	108.8	294.0	215.5	103.2
Buayan-Malungon	97.4	160.8	131.2	89.4	133.9	207.8	169.5	98.2	121.0	296.1	206.8	128.3
Cagayan de Oro	120.9	182.4	155.0	84.5	223.9	274.0	254.1	93.7	235.6	335.8	290.6	97.8
Cotabato RB	115.0	213.7	177.8	88.1	137.1	295.2	253.7	95.6	116.0	388.9	300.5	105.7
Davao RB	200.5	222.5	209.7	93.7	248.3	283.5	271.3	101.8	257.7	366.8	310.1	107.8
Tagoloan River	125.1	185.4	157.5	84.7	219.9	264.6	240.3	94.7	238.6	324.1	287.7	100.6
Tagum-Libuganon	195.8	204.6	200.6	93.9	219.4	262.3	240.2	100.7	121.3	268.6	184.0	92.7



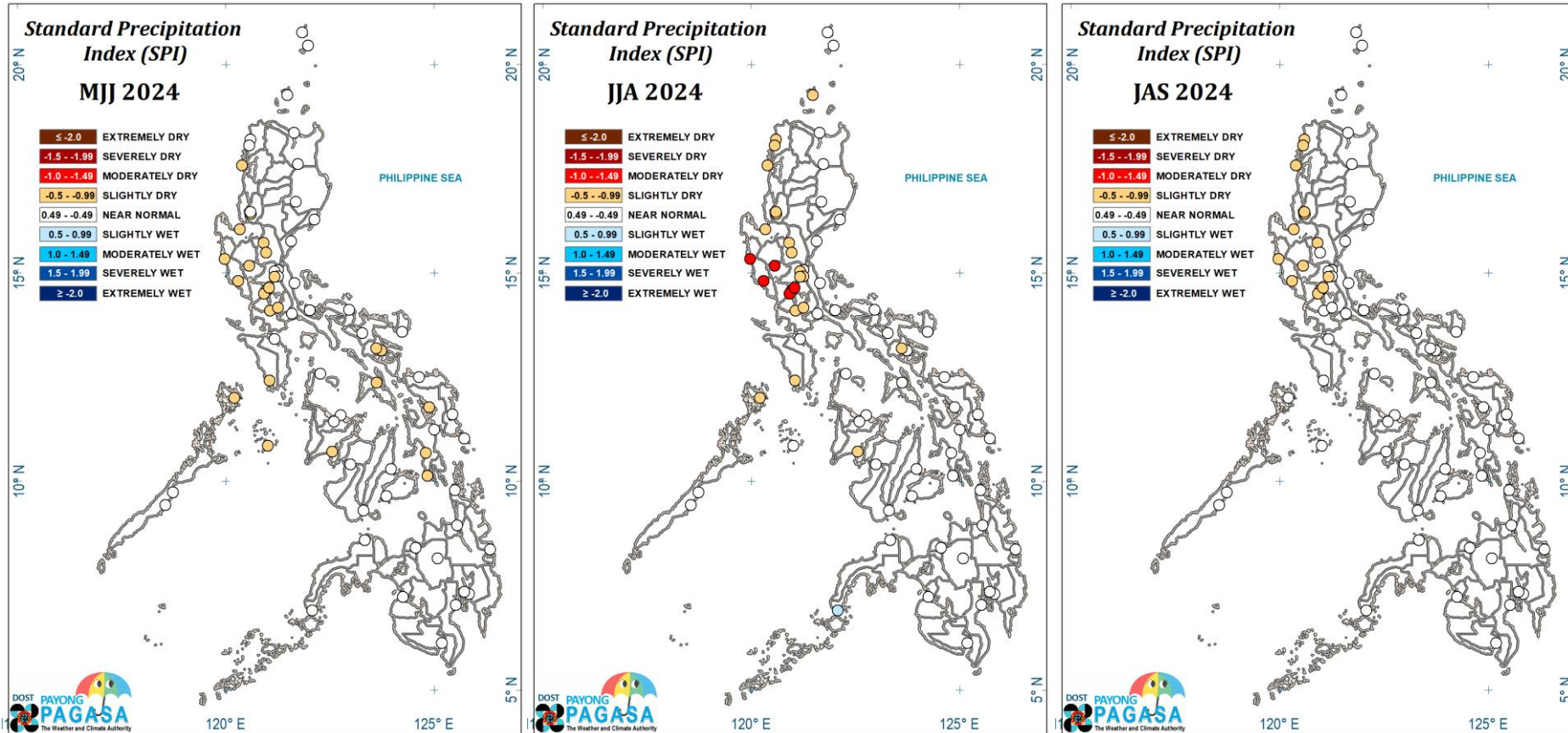
FORECAST RAINFALL OVER SELECTED RIVER BASINS

in (mm) and (%N) FOR MAY 2024 – OCTOBER 2024

CATCHMENT	AUGUST 2024				SEPTEMBER 2024				OCTOBER 2024			
	LUZON											
	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal
Abra RB	331.0	615.1	454.1	82.5	323.4	432.5	375.8	101.7	174.4	332.7	274.7	123.7
Abulug RB	203.7	361.5	290.6	83.3	278.5	344.4	310.5	104.5	263.0	332.5	311.1	118.0
Agno RB	369.9	721.2	490.5	78.4	361.4	523.8	421.8	99.4	270.2	582.8	391.5	145.9
Bicol RB	203.3	252.0	239.8	108.8	271.3	298.5	287.9	83.7	447.0	667.4	496.2	163.9
Bued RB	428.2	686.6	511.1	74.1	398.0	444.3	423.4	94.0	362.0	581.0	468.2	145.7
Cagayan RB	179.0	568.7	281.5	95.2	249.5	425.9	301.1	104.7	293.0	616.1	364.0	126.2
Laoag RB	337.1	451.0	393.1	81.3	333.5	380.9	362.0	101.2	144.4	285.5	220.0	131.6
Pampanga RB	251.5	691.9	375.9	88.4	331.4	599.9	396.9	106.7	223.1	490.9	330.1	132.3
Pasig-Laguna RB	197.0	468.2	314.7	82.6	268.5	523.8	377.3	108.5	293.2	630.5	412.2	150.6
Sinocalan RB	415.6	455.2	431.8	73.1	384.4	437.1	406.1	97.9	354.9	461.3	392.8	158.3
CATCHMENT	MINDANAO											
	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal
	Agus RB	208.8	277.2	239.3	116.0	211.7	263.2	235.7	105.6	216.7	268.6	238.6
Agusan RB	131.2	274.5	197.1	104.3	162.9	261.2	205.6	108.0	227.8	327.2	280.7	126.0
Buayan-Malungon	98.1	175.7	140.0	107.4	112.2	142.9	125.6	100.7	93.9	239.4	179.3	109.6
Cagayan de Oro	231.2	305.0	273.9	112.6	235.2	280.9	263.9	105.3	224.2	310.6	268.2	119.3
Cotabato RB	122.6	317.3	245.8	105.6	118.6	281.4	221.0	100.6	166.1	346.7	271.5	116.1
Davao RB	232.3	283.9	265.1	102.2	179.3	259.1	227.9	97.7	250.8	299.0	273.1	114.2
Tagoloan River	229.1	305.5	268.7	110.6	229.6	278.3	256.3	106.8	253.9	340.9	304.4	120.6
Tagum-Libuganon	190.0	264.2	220.6	100.2	187.6	254.0	214.5	100.4	212.9	305.2	259.8	114.0



STANDARD PRECIPITATION INDEX (SPI) FORECAST



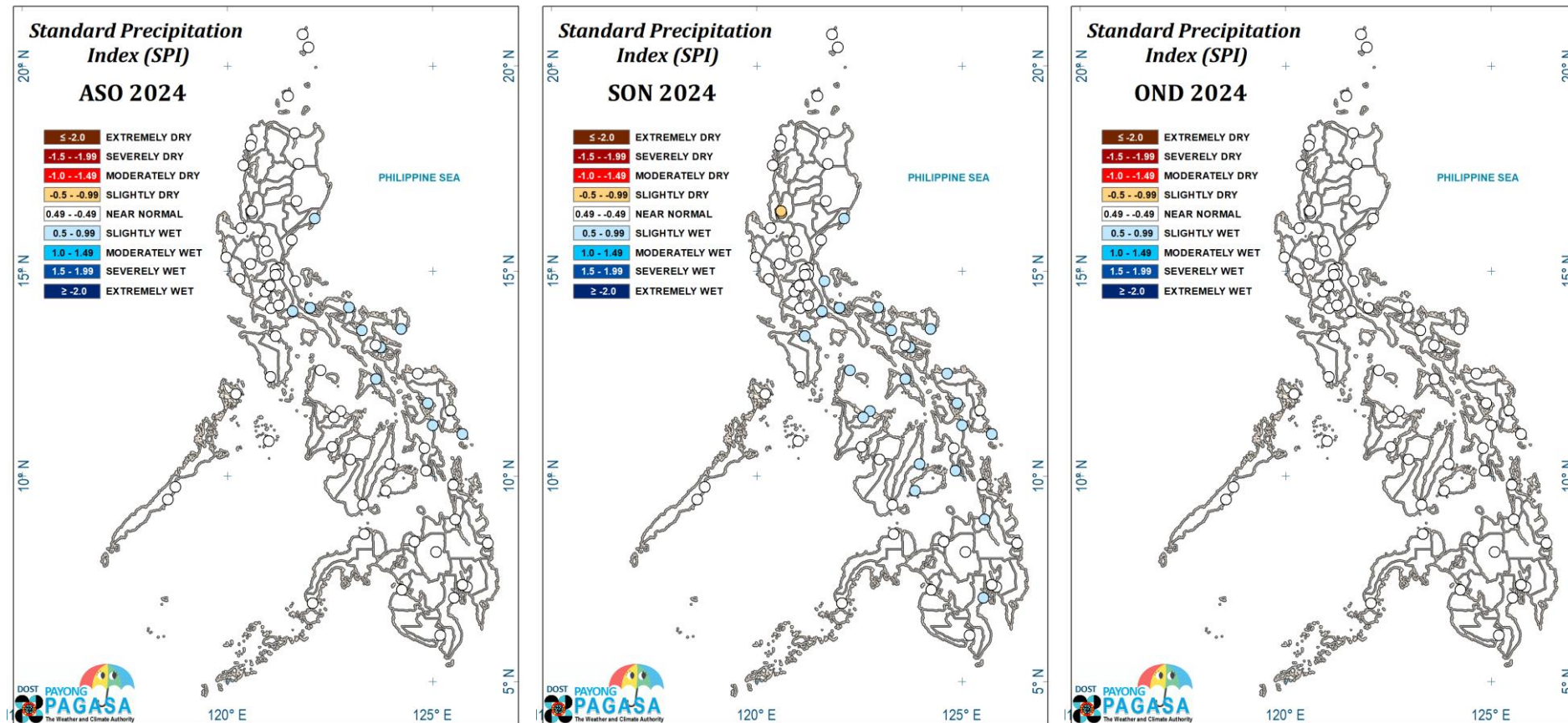
Standardized Precipitation Index (SPI) – widely used index to characterize meteorological drought on a range of timescales.

Basic Assumptions:

Short timescale (i.e., 3- 6 months), the SPI is closely related to soil moisture

Longer timescale (i.e., more than 6, 9,12 months) SPI can be related to groundwater or reservoir storage

STANDARD PRECIPITATION INDEX (SPI) FORECAST



Standardized Precipitation Index (SPI) – widely used index to characterize meteorological drought on a range of timescales.

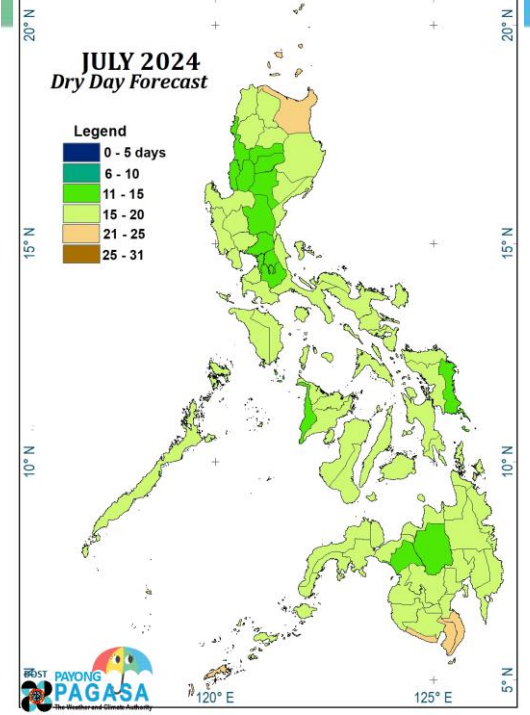
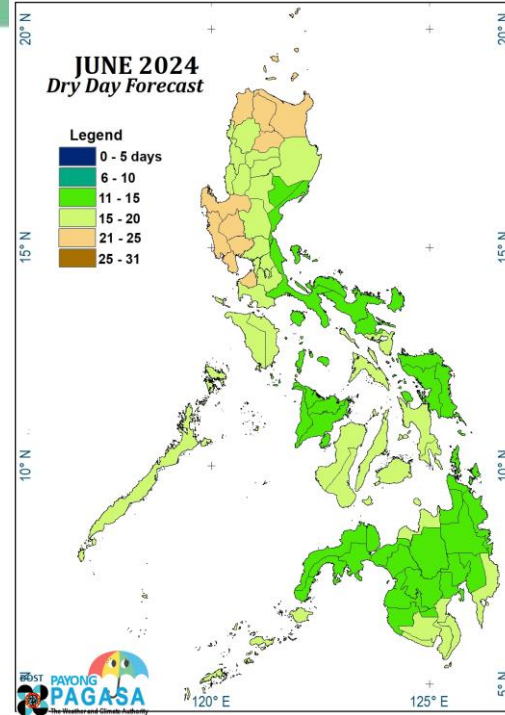
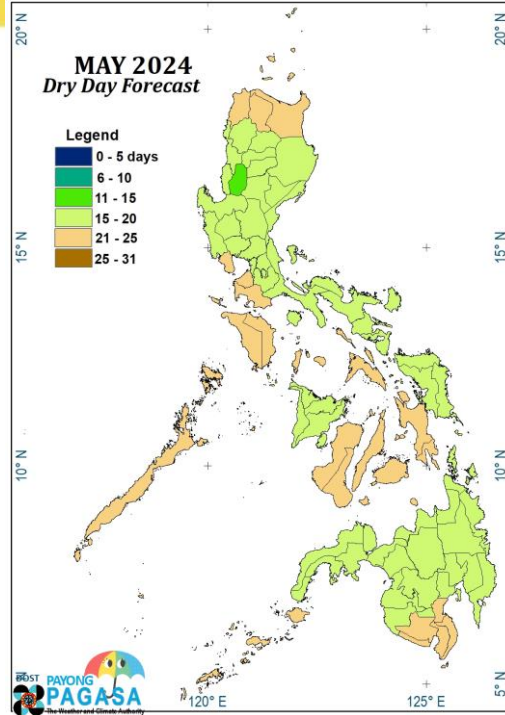
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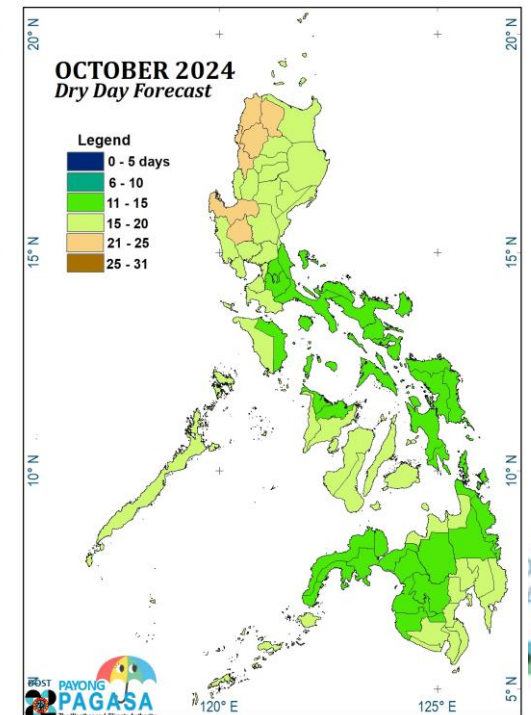
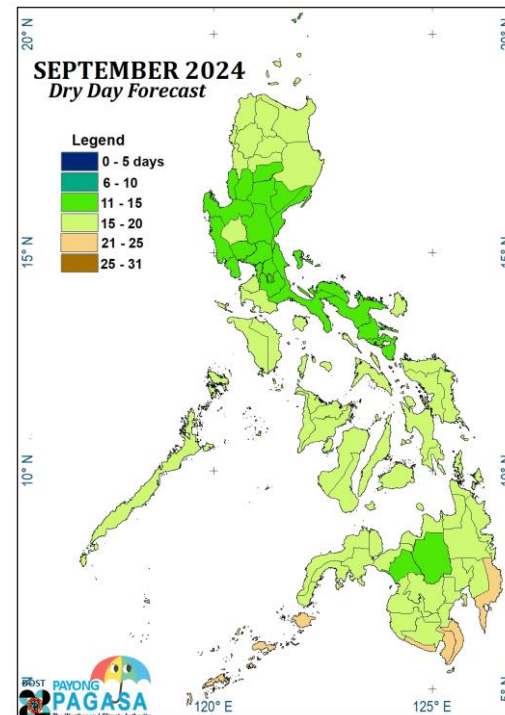
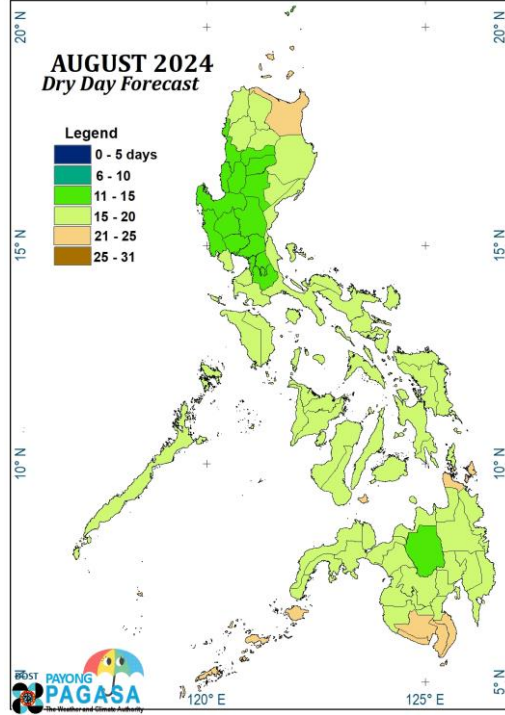
Longer timescale (i.e., more than 6, 9, 12 months) SPI can be related to groundwater or reservoir storage

DRY DAY FORECAST

MAY – OCTOBER 2024



➤ Dry day is defined as a day with less than 1 mm of rainfall is observed/forecasted.



DRY DAY* FORECAST

MAY – OCTOBER 2024

DRY DAY FORECAST ANOMALY

Red shade – increased number of dry days (prominent in June over CAR, Region 1 and 3)

Blue shade – less than the usual number of dry days, i.e., more days with rain (prominent in October over IV-A, IV-B and Bicol)

* Dry day is defined as a day with less than 1 mm of rainfall is observed/forecasted.

NORMAL (1991 - 2020)						
PROVINCE	MAY	JUN	JUL	AUG	SEP	OCT
CORDILLERA ADMINISTRATIVE REGION (CAR)						
ABRA	19	16	15	15	17	20
BENGUET	14	13	11	10	11	18
IFUGAO	16	15	13	14	14	17
KALINGA	19	18	16	17	17	19
APA YAO	21	21	19	19	18	21
MOUNTAIN PROVINCE	17	16	14	14	15	18
REGION I						
ILOCOS NORTE	21	20	18	18	19	23
ILOCOS SUR	17	13	12	12	14	19
LA UNION	15	13	11	11	12	19
PANGASINAN	18	16	14	14	15	22
REGION II						
BATANES	18	19	17	14	14	17
CAGAYAN	21	21	20	20	18	18
ISABELA	19	19	17	18	17	17
NUEVA VIZCAYA	15	14	13	13	13	17
QUIRINO	16	15	14	15	14	16
REGION III (CENTRAL LUZON)						
BATAAN	20	17	14	14	15	21
BULACAN	17	15	13	14	13	18
NUEVA ECIIJA	18	16	14	14	14	19
PAMPANGA	18	16	13	14	15	21
TARLAC	18	16	13	14	15	22
ZAMBALES	19	15	13	13	15	21
AURORA	16	15	15	16	14	15
NATIONAL CAPITAL REGION						
METRO MANILA	19	15	12	13	13	18
REGION IV-A (CALABARZON)						
BATANGAS	21	18	16	17	17	19
CAVITE	22	19	15	15	16	21
LAGUNA	18	15	13	14	13	16
RIZAL	17	13	12	12	11	17
QUEZON	17	14	15	16	14	12
REGION IV-B (MIMAROPA)						
MARINDUQUE	18	15	15	17	15	13
OCCIDENTAL MINDORO	21	16	15	16	16	19
OCCIDENTAL MINDORO	20	16	15	17	16	17
ROMBLON	19	14	15	17	15	15
PALAWAN	21	16	17	18	16	17
REGION V (BICOL)						
ALBAY	17	14	13	14	13	14
CAMARINES NORTE	18	15	16	17	14	11
CAMARINES SUR	18	15	15	16	13	13
CATANDUANES	18	15	15	17	15	13
MASBATE	21	17	16	17	16	17
SORSOGON	18	15	14	15	14	15

FORECAST					
MAY	JUN	JUL	AUG	SEP	OCT
19	18	15	15	17	21
14	16	12	10	12	18
17	16	15	14	14	17
20	20	17	17	17	19
20	23	19	20	18	20
18	17	15	14	15	18
20	23	18	19	19	23
18	16	13	12	15	20
16	16	13	11	12	20
19	20	15	14	15	22
18	21	17	15	14	17
21	23	21	20	18	17
20	19	18	19	17	15
16	15	14	13	13	17
17	14	17	16	15	16
21	24	16	15	15	19
19	19	15	15	13	16
18	18	15	14	15	19
19	21	15	14	15	19
19	21	15	14	15	21
20	21	16	14	14	20
18	13	17	17	15	15
19	18	14	14	13	16
21	19	18	18	17	18
22	22	17	17	17	19
19	16	14	14	14	14
18	16	13	12	12	13
19	13	17	17	14	11
20	13	17	19	15	11
21	18	16	18	16	17
20	15	16	18	16	14
20	13	17	18	15	12
21	19	18	19	16	16
18	14	15	16	13	10
19	14	18	18	14	11
18	15	16	16	13	10
20	13	16	16	16	11
22	18	18	18	16	14
19	15	16	17	15	12

ANOMALY					
MAY	JUN	JUL	AUG	SEP	OCT
0	2	0	0	0	1
0	3	1	0	1	0
1	1	2	0	0	0
1	2	1	0	0	0
-1	2	0	1	0	-1
1	1	1	0	0	0
-1	3	0	1	0	0
1	3	1	0	1	1
1	3	2	0	0	1
1	4	1	0	0	0
0	2	0	1	0	0
0	2	1	0	0	-1
1	0	1	1	0	-2
1	1	1	0	0	0
1	-1	3	1	1	0
1	7	2	1	0	-2
2	4	2	1	0	-2
0	2	1	0	1	0
1	5	2	0	0	-2
1	5	2	0	0	-1
1	6	3	1	-1	-1
2	-2	2	1	1	0
0	3	2	1	0	-2
0	1	2	1	0	-1
0	3	2	2	1	-2
1	1	1	0	1	-2
1	3	1	0	1	-4
2	-1	2	1	0	-1
2	-2	2	2	0	-2
0	2	1	2	0	-2
0	-1	1	1	0	-3
1	-1	2	1	0	-3
0	3	1	1	0	-1
1	0	2	2	0	-4
1	-1	2	1	0	0
0	0	1	0	0	-3
2	-2	1	-1	1	-2
1	1	2	1	0	-3
1	0	2	2	1	-3



DRY DAY* FORECAST

MAY – OCTOBER 2024

DRY DAY FORECAST ANOMALY

Red shade – increased number of dry days

Blue shade – less than the usual number of dry days, i.e., more days with rain

* Dry day is defined as a day with less than 1 mm of rainfall is observed.

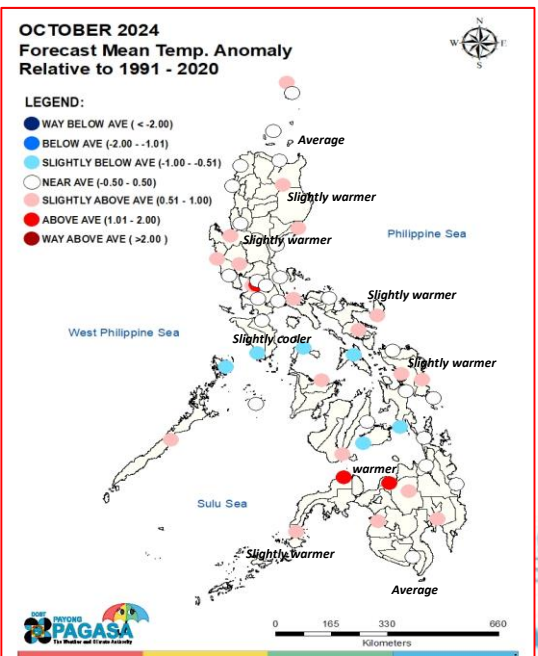
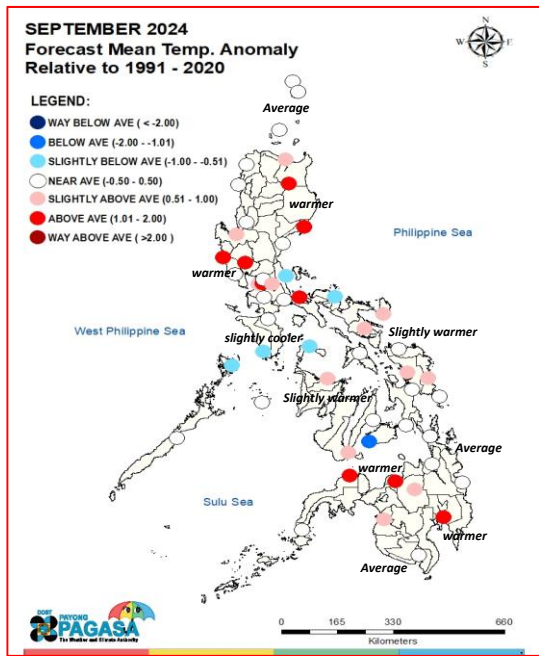
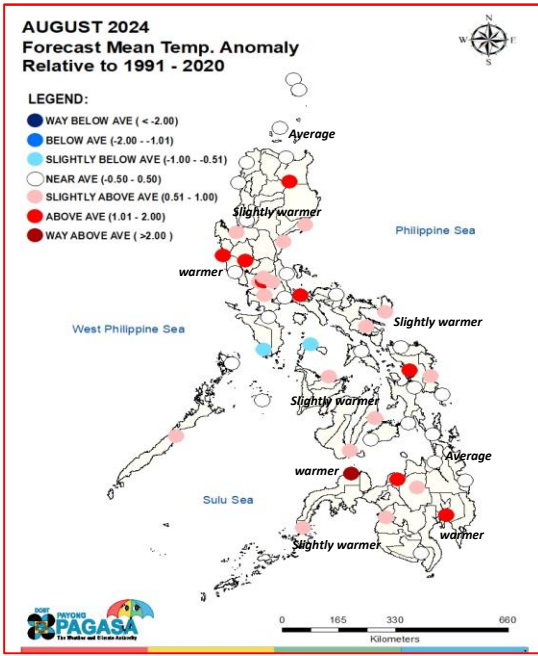
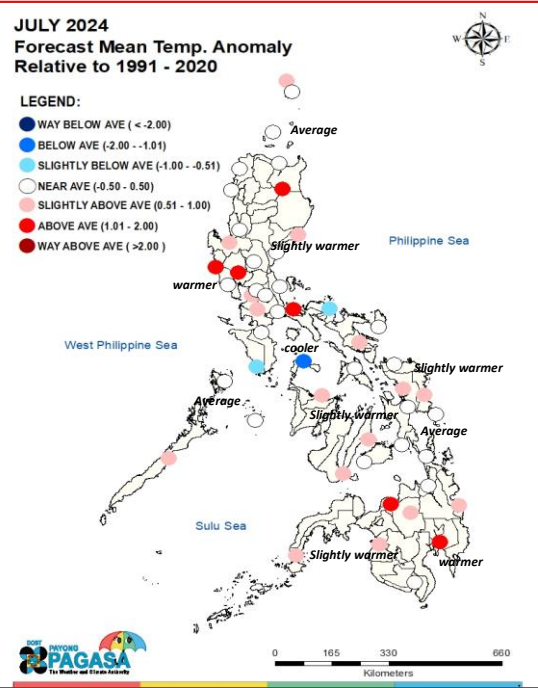
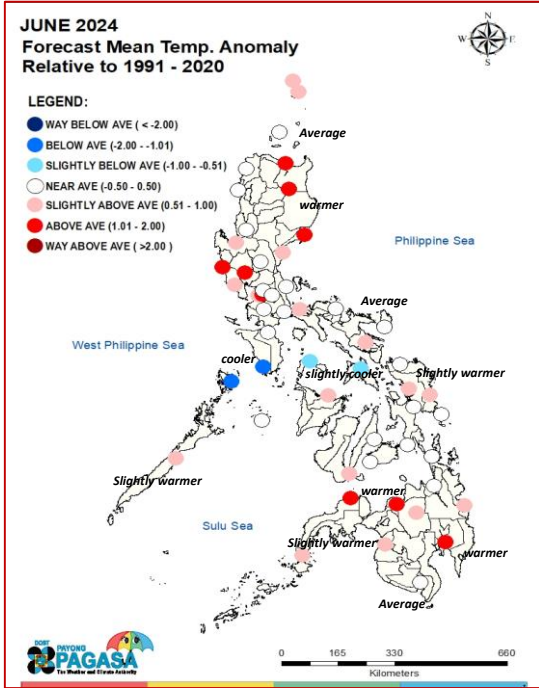
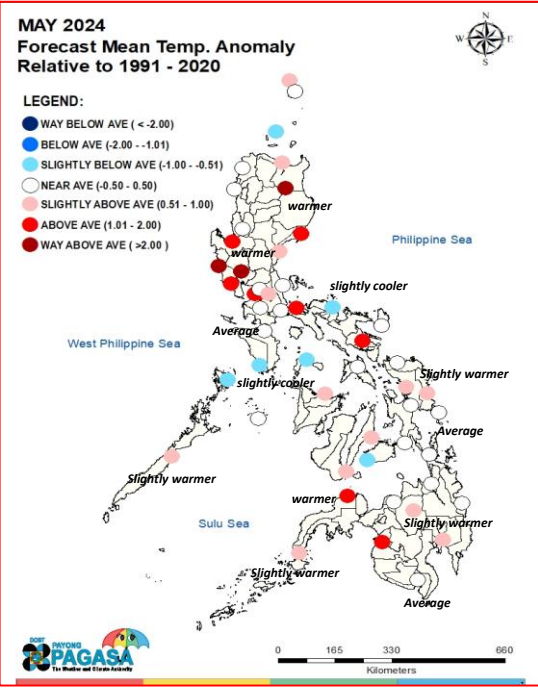
PROVINCE	NORMAL (1991 - 2020)						FORECAST						ANOMALY					
	MAY	JUN	JUL	AUG	SEP	OCT	MAY	JUN	JUL	AUG	SEP	OCT	MAY	JUN	JUL	AUG	SEP	OCT
REGION VI (WESTERN VISAYA S)																		
AKLAN	19	14	15	17	16	16	19	14	16	18	15	13	0	0	1	1	-1	-3
ANTIQUE	18	14	14	16	15	17	18	14	15	16	15	16	0	0	1	0	0	-1
CAPIZ	19	15	16	17	16	16	19	15	17	18	16	13	0	0	1	1	0	-3
GUIMARAS	19	14	15	16	16	17	18	14	15	16	16	17	-1	0	0	0	0	0
ILOILO	19	14	15	17	16	16	19	14	16	17	16	15	0	0	1	0	0	-1
NEGROS OCCIDENTAL	21	16	17	18	17	18	21	15	17	18	17	17	0	-1	0	0	0	-1
REGION VII (CENTRAL VISAYAS)																		
NEGROS ORIENTAL	22	17	18	19	18	18	22	15	17	20	18	16	0	-2	-1	1	0	-2
BOHOL	20	17	17	18	17	16	22	18	18	20	18	16	2	1	1	2	1	0
CEBU	21	17	17	18	17	17	22	16	18	19	17	16	1	-1	1	1	0	-1
SIGUJOR	21	16	17	19	19	17	21	16	18	21	19	16	0	0	1	2	0	-1
REGION VIII (EASTERN VISAYA S)																		
BILIRAN	20	15	16	18	15	15	20	15	16	19	16	14	0	0	0	1	1	-1
EASTERN SAMAR	15	12	14	17	15	12	16	10	15	17	15	12	1	-2	1	0	0	0
LEYTE	20	15	16	17	16	16	20	15	16	18	16	13	0	0	0	1	0	-3
NORTHERN SAMAR	17	14	15	18	15	13	18	12	16	18	16	12	1	-2	1	0	1	-1
SAMAR (WESTERN SAMAR)	17	13	14	17	15	13	18	12	15	18	15	13	1	-1	1	1	0	0
SOUTHERN LEYTE	20	16	16	17	16	15	22	17	17	18	17	12	2	1	1	1	1	-3
REGION IX (ZAMBOANGA PENINSULA)																		
ZAMBOANGA DEL NORTE	19	15	17	18	17	15	19	13	18	19	17	13	0	-2	1	1	0	-2
ZAMBOANGA DEL SUR	18	14	16	17	16	15	18	12	18	18	17	13	0	-2	2	1	1	-2
ZAMBOANGA SIBUGAY	19	15	17	18	17	16	19	13	18	19	17	13	0	-2	1	1	0	-3
REGION X (NORTHERN MINDANAO)																		
BUKIDNON	14	12	13	14	13	14	15	12	14	14	13	13	1	0	1	0	0	-1
CAMIGUIN	20	17	17	18	18	17	21	17	18	19	19	18	1	0	1	1	1	1
LANAO DEL NORTE	17	13	15	16	16	15	17	13	15	16	16	15	0	0	0	0	0	0
MISAMIS OCCIDENTAL	17	14	15	17	16	14	17	13	17	17	16	14	0	-1	2	0	0	0
MISAMIS ORIENTAL	18	15	16	17	17	17	19	15	16	17	18	17	1	0	0	0	1	0
REGION XI (DAVAO REGION)																		
DAVAO DE ORO	16	16	17	17	18	18	17	15	17	18	20	17	1	-1	0	1	2	-1
DAVAO CITY	17	15	16	16	16	17	18	15	17	17	18	16	1	0	1	1	2	-1
DAVAO DEL NORTE	16	15	16	16	16	17	17	14	17	16	17	16	1	-1	1	0	1	-1
DAVAO DEL SUR	19	17	18	19	18	19	21	16	19	20	19	18	2	-1	1	1	1	-1
DAVAO OCCIDENTAL	22	20	21	21	21	22	24	19	21	23	23	20	2	-1	0	2	2	-2
DAVAO ORIENTAL	18	17	18	18	20	19	18	16	18	20	22	18	0	-1	0	2	2	-1
REGION XII (SOCCSKSARGEN)																		
SOUTH COTABATO	20	17	18	20	18	20	22	16	20	21	19	17	2	-1	2	1	1	-3
COTABATO	16	13	15	16	14	16	17	13	16	16	15	14	1	0	1	0	1	-2
SARANGANI	22	19	20	21	20	21	24	18	21	23	21	18	2	-1	1	2	1	-3
SULTAN KUDARAT	18	15	17	18	16	18	19	14	18	19	17	15	1	-1	1	1	1	-3
REGION XIII - CARAGA																		
AGUSAN DEL NORTE	19	15	18	19	18	17	20	13	19	19	18	16	1	-2	1	0	0	-1
AGUSAN DEL SUR	15	13	15	16	16	16	16	11	17	16	16	14	1	-2	2	0	0	-2
DINAGAT ISLANDS	19	14	17	18	17	14	20	13	18	20	18	11	1	-1	1	2	1	-3
SURIGAO DEL NORTE	19	14	17	18	18	14	20	12	18	20	18	13	1	-2	1	2	0	-1
SURIGAO DEL SUR	16	13	16	17	17	15	17	11	17	18	18	13	1	-2	1	1	1	-2
ARMM																		
BA SILAN	21	18	19	20	19	19	21	16	19	21	20	17	0	-2	0	1	1	-2
MAGUINDANAO	16	13	15	17	15	16	17	12	16	16	15	14	1	-1	1	-1	0	-2
LANAO DEL SUR	15	13	14	15	14	15	16	13	14	15	15	14	1	0	0	0	1	-1
SULU	22	19	20	21	20	20	22	18	19	22	21	19	0	-1	-1	1	1	-1



MONTHLY MEAN TEMPERATURE FORECAST (MAY- OCTOBER 2024)

LEGEND

- WAY BELOW AVE (< -2.00)
- BELOW AVE (-2.00 - -1.01)
- SLIGHTLY BELOW AVE (-1.00 - -0.51)
- NEAR AVE (-0.50 - 0.50)
- SLIGHTLY ABOVE AVE (0.51 - 1.00)
- ABOVE AVE (1.01 - 2.00)
- WAY ABOVE AVE (>2.00)



FORECAST RANGES OF EXTREME TEMPERATURE



Updated : 24 April 2024

TMAX Summary	May-24		Jun-24		Jul-24		Aug-24		Sep-24		Oct-24	
	Tmax-Range		Tmax-Range		Tmax-Range		Tmax-Range		Tmax-Range		Tmax-Range	
Northern Luzon	31.5	40.8	32.0	40.7	31.5	38.7	30.8	37.5	30.1	36.6	28.4	36.0
Lowlands Luzon	31.7	39.8	30.9	39.5	29.7	40.0	28.5	38.2	28.5	38.7	27.8	35.7
Mountainous Luzon	26.3	29.0	26.8	28.7	25.9	27.4	25.2	26.9	24.6	26.5	25.0	26.8
Metro Manila	36.5	38.3	35.1	37.3	35.2	37.0	33.1	36.9	32.8	35.7	32.8	35.6
Lowlands Visayas	32.5	37.5	33.0	38.8	32.2	36.6	31.8	36.3	31.3	36.5	31.0	35.8
Lowlands Mindanao	33.4	38.8	33.8	38.3	33.0	38.0	33.7	39.5	33.5	39.5	33.0	38.8
Mountainous Mindanao	34.0	36.3	32.5	34.5	32.0	33.0	32.0	33.5	32.0	34.1	32.3	34.0

TMIN Summary	May-24		Jun-24		Jul-24		Aug-24		Sep-24		Oct-24	
	Tmin-Range		Tmin-Range		Tmin-Range		Tmin-Range		Tmin-Range		Tmin-Range	
Northern Luzon	20.6	25.0	22.0	25.3	18.0	24.9	19.1	24.7	16.1	24.5	18.8	24.8
Lowlands Luzon	19.0	27.7	19.2	26.0	17.0	25.3	17.0	25.0	18.3	25.1	18.4	25.0
Mountainous Luzon	15.2	16.2	15.0	16.2	14.4	15.4	14.3	15.5	13.7	15.6	13.4	15.0
Metro Manila	23.0	26.0	23.3	25.2	22.8	24.6	22.3	24.1	22.4	24.8	22.0	24.1
Lowlands Visayas	21.4	25.9	21.6	28.6	20.2	25.0	20.4	25.0	19.6	25.2	21.6	24.8
Lowlands Mindanao	21.4	25.2	21.0	24.3	20.8	24.2	20.6	24.6	20.5	24.3	20.2	23.8
Mountainous Mindanao	16.1	19.1	17.1	19.3	16.0	18.4	15.1	18.6	15.5	18.3	16.6	18.8

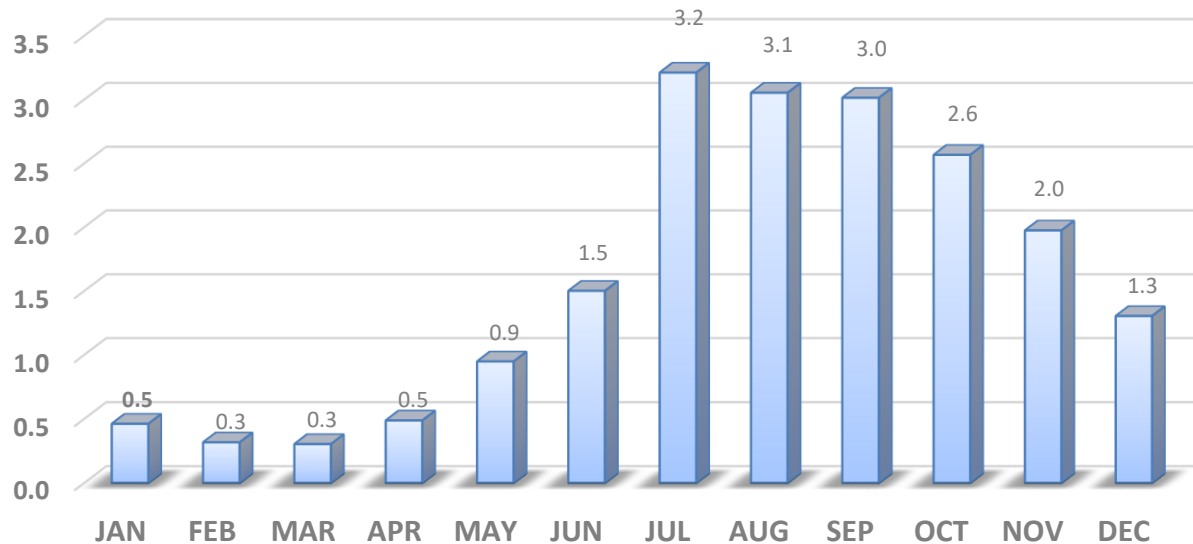




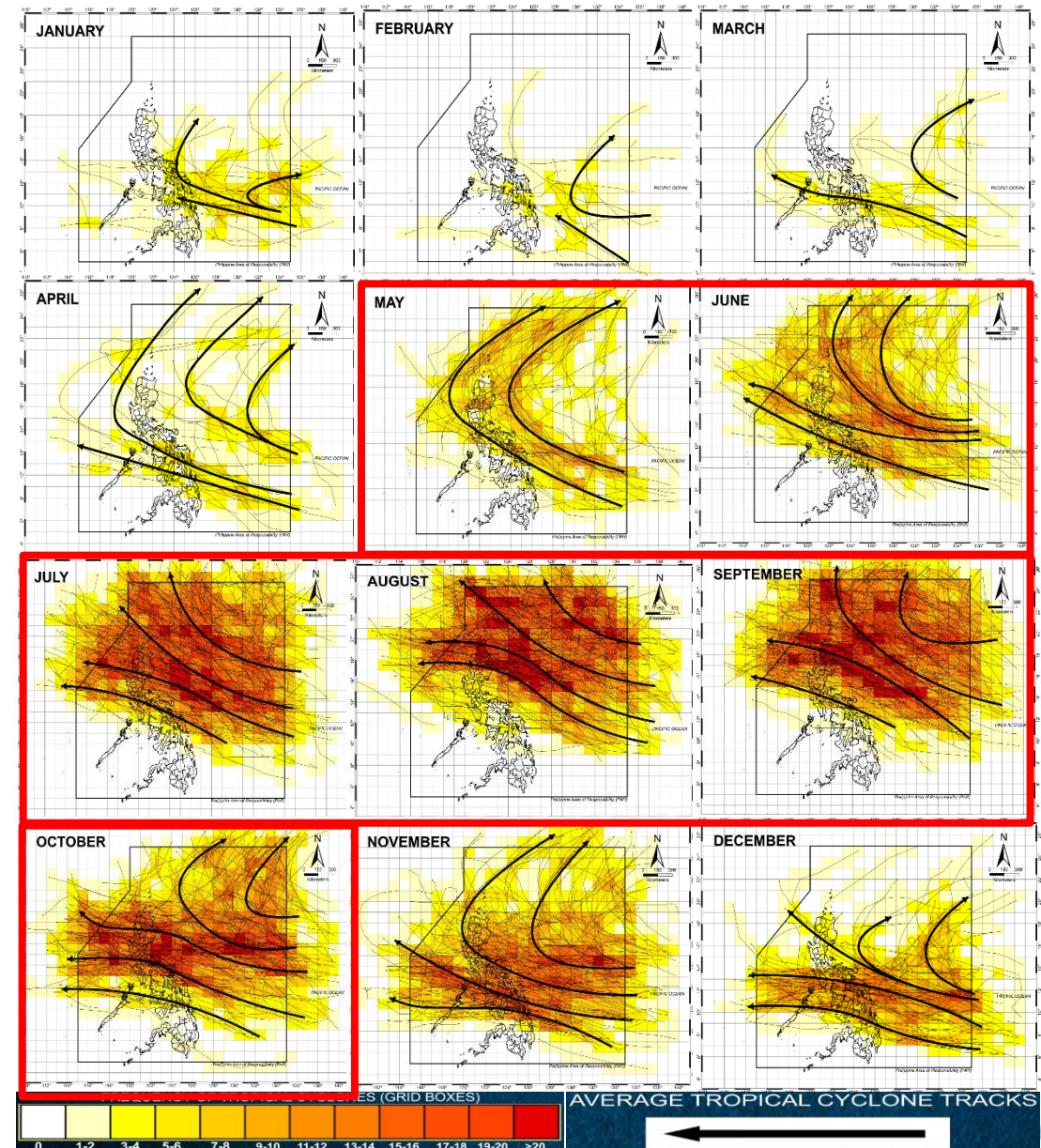
HOW MANY TROPICAL CYCLONES SHOULD YOU EXPECT?

MAY 2024	1 or 2	AUGUST 2024	2 or 3
JUNE 2024	1 or 2	SEPTEMBER 2024	2 or 3
JULY 2024	2 or 3	OCTOBER 2024	2 or 3
10 - 13 TCs expected			

Average Tropical Cyclone Frequency (1948-2023)



Tropical Cyclone Tracks Climatology with actual tracks from 1948-2015



SUMMARY

ENSO Alert System Status

El Niño Advisory #10 / La Niña Watch



- El Niño in the tropical Pacific continues to weaken but impacts (hotter and drier conditions) continue;
- A transition from El Niño to ENSO-neutral is expected in April-May-June (AMJ) 2024 season (85% chance);
- Probability of La Niña (60% chance) in June-July-August (JJA) 2024 season.

Forecast Rainfall Conditions:

MAY 2024

- Below normal rainfall over most parts of Luzon, Visayas and northern Mindanao, while near normal in northern Luzon and the rest of Mindanao;
- high probability for *below normal* over most parts of the country.

JUNE 2024

- *Below normal* in most parts of western and central Luzon and some parts of the Visayas while near normal for the rest of the country;
- High probability for *below normal in most parts of Luzon and the Visayas while high probability for near to above normal in the eastern side of Luzon, some parts of Visayas and most of Mindanao.*

JULY 2024

- *Below normal to near normal* in Luzon and the Visayas while Mindanao will likely be near normal with patches of above normal;
- High probability for *below normal in Luzon and most of Visayas while in Mindanao above normal probability is 40-55%.*

SUMMARY

AUGUST 2024

- Near normal in most parts of the country, however, below normal is likely in western Luzon while patches of above normal in the Visayas and Mindanao is expected;
- 40 - 50% probability for *below normal over most parts of western Luzon while 40-55% probability for above normal in eastern Luzon, Visayas and Mindanao.*

SEPTEMBER 2024

- *Near normal rainfall in most parts of the country;*
- 40-60% probability for *above normal in most parts of the country.*

OCTOBER 2024

- *Near to above normal rainfall in most parts of the country;*
- 40-70% probability for *above normal rainfall conditions.*

Forecast Temperature:

- *Below average to warmer than average surface air temperatures are expected throughout the country during the forecast period.*

Tropical Cyclone Forecast:

- **10 – 13** tropical cyclones are expected to enter/develop in the Philippine Area of Responsibility (PAR) from May to October 2024.

- DOST- PAGASA will continue to closely monitor the weakening **El Niño** and the developing **La Niña**.
- Updates/advisories shall be issued as appropriate.

Tentative schedule of
172nd CF:
23 MAY 2024



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TRUNKLINE: (02) 8284-0800

EXTENSIONS

TYPHOON: 4801

FLOOD: 4855

CLIMATE: 4920 or 4921

MEDIA: 4865



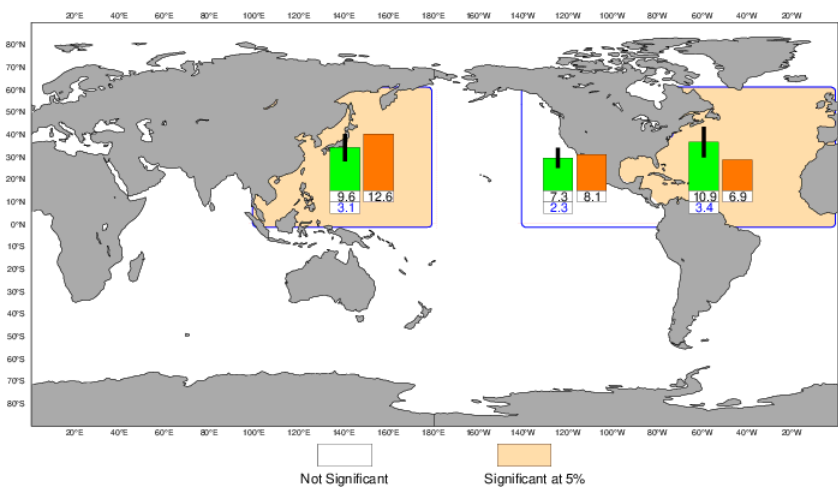
#BantayKlima

Thank you for listening!

ECMWF Seasonal Forecast
Hurricane or typhoon Frequency
Forecast start reference is 01/04/2024
Ensemble size = 51, climate size = 775

SEAS5
MJJASO 2024
Climate (initial dates) = 1993-2023

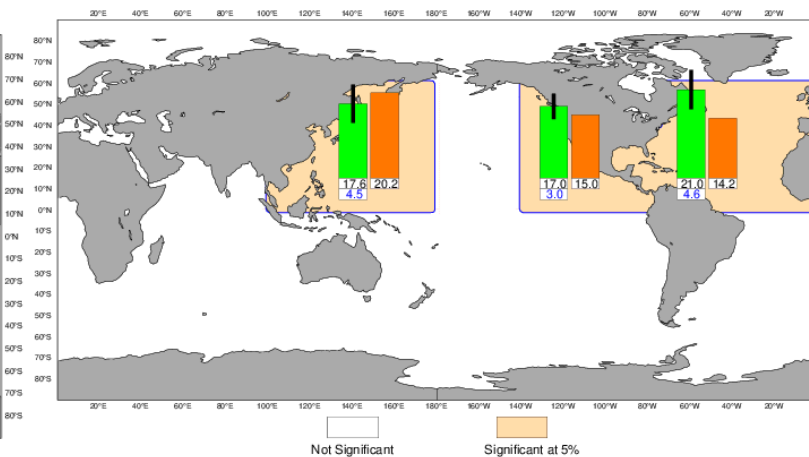
Forecast mean Standard deviation Climate mean



ECMWF Seasonal Forecast
Tropical Storm Frequency
Forecast start reference is 01/04/2024
Ensemble size = 51, climate size = 775

SEAS5
MJJASO 2024
Climate (initial dates) = 1993-2023

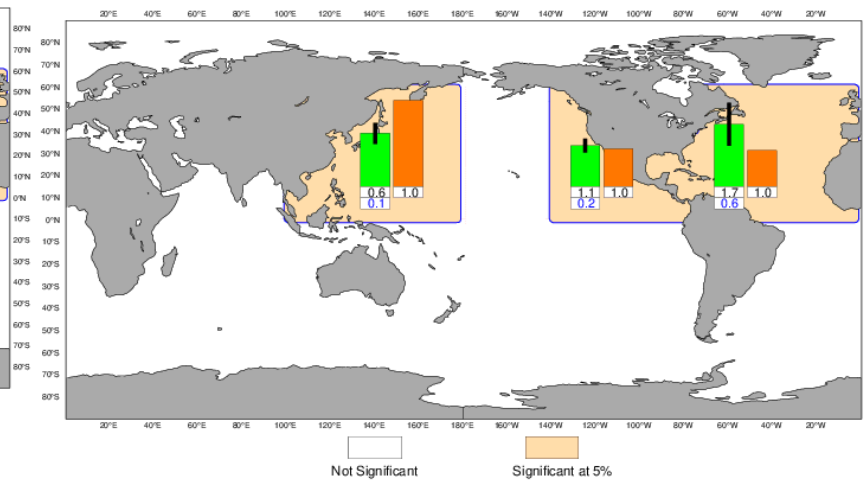
Forecast mean Standard deviation Climate mean



ECMWF Seasonal Forecast
Accumulated Cyclone Energy
Forecast start reference is 01/04/2024
Ensemble size = 51, climate size = 775

SEAS5
MJJASO 2024
Climate (initial dates) = 1993-2023

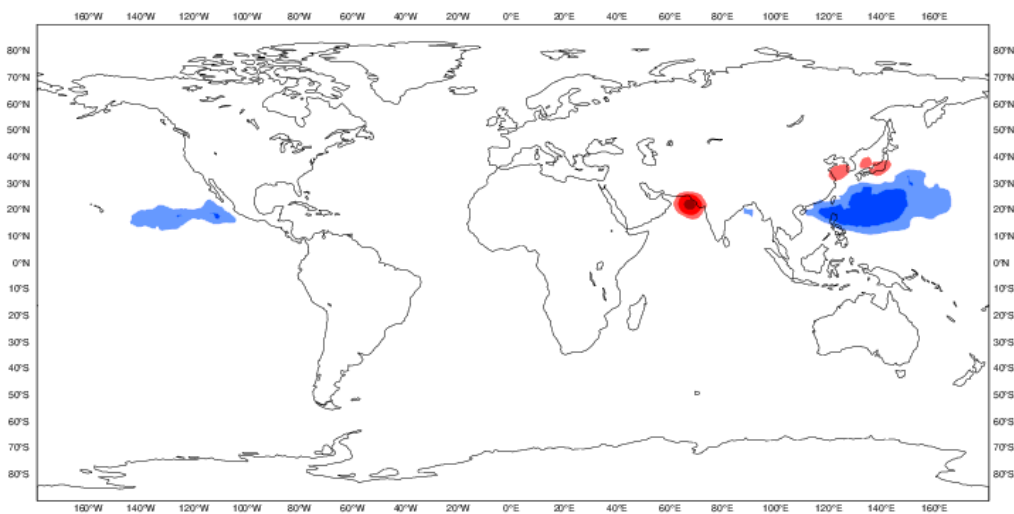
Forecast mean Standard deviation Climate mean



ECMWF Seasonal Forecast
Tropical Storm Density Anomaly
Forecast start reference is 01/04/2024
Ensemble size = 51, climate size = 575

SEAS5
MJJASO 2024
Climate (initial dates) = 1993-2015

<-4 -4..-2 -2..-1 -1..-0.5 -0.5..0.5 0.5..1 1..2 2..4 >4



ECMWF Seasonal Forecast
Standardized Tropical Storm Density
Forecast start reference is 01/04/2024
Ensemble size = 51, climate size = 575

SEAS5
MJJASO 2024
Climate (initial dates) = 1993-2015

Reduced expected value Usual expected value Enhanced expected value

